10/07: Design Day Booklet Team Project Page Artwork Feedback

The Capstone Experience

Dr. Wayne Dyksen
Department of Computer Science and Engineering
Michigan State University
Fall 2019
What do you need to do?

• An updated version of your Design Day booklet team page with the artwork layout modifications is posted on our Downloads page. Get it.
• A PDF of this slide deck is posted on our Downloads page. Get it.
• Use this latest version of your Design Day booklet team page from now on.
• Use the Windows version of Word and only the Windows version of Word to edit your page.
• Read the comments below about your team’s artwork.
• Leave the artwork layout as is.
• Redo your artwork if and as requested.
• If necessary, place your new artwork in your project page team.
• If necessary, provide new high resolution originals appropriately named.
• Submit all of your assets as you did before (only without the mistakes) by 11:59 p.m., Tuesday, October 8.
Team Accenture Artwork Feedback (Ryan)

Original Artwork

Feedback

• Your artwork and layout are fine. I resized and moved things slightly.
• Leave the artwork layout as is in my revised draft when you resubmit your zip folder.
• Nice work.
Email Classification using Machine Learning

Our web app is built using the Python library's Flask and Bootstrap, and our data is stored in a Mongo database. Our application utilizes a Machine Learning approach and is hosted on a virtual machine running on CentOS.

Due to the rise in social engineering, it is becoming an ever-growing challenge for companies to classify and detect emails that may lead to an infection or a security breach. In the news, many employees continue to view their email as inherently secure.

Malicious spam emails are a huge issue for many companies, and employees continue to view their email as inherently secure. Despite the increased employee training and frequent high-profile data breaches, employees continue to view their email as inherently secure.

According to SpamHaus, 14.5 billion spam messages were sent globally every day, accounting for spam nearly 45% of email traffic. Despite governments making smarter decisions to defend against new and evolving threats, employee behavior has not changed, making it difficult for companies to classify and detect emails that might lead to an infection or a security breach.

Accenture is a Fortune 500 Global company that solves their clients' toughest challenges by providing services in strategy, consulting, digital, technology and operations. Accenture's iDefense empowers its customers' environments with contextual, timely and actionable security intelligence, enabling businesses and governments to make smarter decisions to defend against new and growing cyber threats.
Your artwork and layout are fine. I resized and moved things slightly.

Leave the artwork layout as is in my revised draft when you resubmit your zip folder.

Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-paragraph-description. After correcting the style, your description is too short.
for the application is instantiated by AWS CloudFormation. The infrastructure to utilize the SPARTI project to build a containerized application is instantiated by an application hosted on AWS ECS Fargate. The infrastructure for the development.

A user with an application capable of retrieving data from their Amazon seller applications. SPARTI lowers the barrier to entry for creating custom third-party seller applications. SPARTI quickly and easily integrates with their selling data by creating a custom application which accounted for nearly 50% of all online retail purchases last year. The Selling Partner portal becomes close to impossible for the platform to become a true commerce platform, which accounted for nearly 50% of all online retail purchases last year. Amazon has seen tremendous growth and success, Amazon has seen tremendous growth and success, making history by becoming the second bookstore, Amazon has seen tremendous growth and success, after being founded 24 years ago as an online store.

While the Seller Central portal works well for large and growing businesses, it is often too tedious or overly time consuming creating these interbusiness platforms. Sellers, 80% of these sellers, often seek to add third-party sellers. 80% of these sellers, often seek to add third-party sellers. After being founded 24 years ago as an online store, Amazon has seen tremendous growth and success, Amazon has seen tremendous growth and success, making history by becoming the second bookstore, Amazon has seen tremendous growth and success, after being founded 24 years ago as an online store.
• The sizes and layout of your artwork is fine, but...
• Your artwork is very boring. It has too much whitespace.
  You don’t have anything more interesting with less whitespace?
  Replace it with something with less whitespace.
• Your artwork blends into the white background. You were supposed to have added a border. Read the directions and fix this.
• Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. After correcting the style, your description is way too short.
The BizIQ Sequential Flow Map is created using Node.js and utilizes the AppDynamics Analytics API to acquire data. The visuals of the project are created using d3.js, React, and CSS.

For example, a manager of a large car manufacturer is assessing a customer's time for unlocking their car door using an app on their cell phone. Events have been collected and sent to a central interface. These various different events are connected to create a flow map. If there was an issue with how long it took for a car to unlock, the manager could see this in the flow map. Verification may usually take 1 second to process, however this flow shows it took 5 seconds.

Currently, customers have access to a linear flow map, but the BizIQ Sequential Flow Map augments AppDynamics' current offerings by giving customers access to that feature. It allows users to create custom flow maps representing various business transactions that may branch in multiple directions. BizIQ Sequential Flow Maps can be filtered to show one specific instance of the flow.

Once a flow is constructed it can then be saved for viewing or editing purposes. With a flow constructed, the user can see the average time it takes for a particular business transaction to occur. The flow can then be filtered to show one specific instance of the flow.
• Your artwork is ok, but...
• The top image does not look like a restaurant. It looks more like someone's backyard patio. Replace this with something that looks more like a restaurant. Or, modify your world to look more like a restaurant.
• Your bottom image is presumably a safety feature that a player discovered in your restaurant, right? Choose your top image so that it includes the feature highlighted in the bottom image. Get it?
• Replace the photo of the headset with a photo of someone wearing the headset and the controllers.
Danger Diner is made using the Unity Game Engine. The game allows for real world practice of insurance principles with no setup or expense. It can be played with large groups for training and teaching their insurers.

The game decides which items will appear at the beginning of the round. Each item is randomly placed. Some items have multiple hazardous practices within businesses. Recognizing these practices allows them to make proper decisions about whether to insure these businesses.

Insurers need to learn to recognize good safety practices and hazardous practices. The best way to learn these principles is real world experience. However, creating simulations can be time consuming and expensive.

Our solution is Danger Diner. It is a virtual reality game, where players have the same experience within the game. The game is played using an Oculus Rift headset, Oculus Touch controllers, Oculus sensors, and the SteamVR application. No two players have the same experience within the game.

Owners Insurance has been serving the community since 1916. Since Auto-Owners is always growing, they're always looking for new and interesting ways to train and teach their insurers. Owners provides home, life, automobile, and business insurance to over 3 million policy holders.

Auto-Owners Insurance is a Fortune 500 company that offers expanding insurance services, including other insurance carriers. Owners Insurance offers homeowners, renters, and business insurance as well as property and casualty insurance.

Team Members

Max Dudley
Livonia, Michigan
Northville, Michigan
Max DeDona
Tianjin, Tianjin, China
Nick Xie

Project Sponsors

Auto-Owners Insurance
Team Bosch Artwork Feedback (Ryan)
Original Artwork

Feedback

• Your artwork and layout are basically fine.
• I resized and moved things slightly.
• I resized the screenshots so that they are both the exact same height.
• The textboxes were too small. They were clipping the artwork, so I made the textboxes larger.
• Your artwork is medium resolution. Supply the exact same thing only at a higher resolution.
• Leave the artwork layout as is in my revised draft when you resubmit your zip folder.
running their tests manually every day. This process is time-consuming and can lead to errors in the software. To address this issue, Bosch has developed an Integration and Testing Suite for ADAS Radar Sensors. This suite allows for complete automation of testing, so that Bosch engineers can focus on developing more features for the software rather than running their tests manually every day.

The functionality of each radar is determined by the software that is embedded on it. To make a more enhanced version of a radar, the software must be developed and deployed onto the sensors. A recent project that Bosch has been working on is radar obstacle detection. These radars help to ensure safety in a vehicle by notifying the driver when they are close to an obstacle or automatically braking for collision prevention. They work in conjunction with other sensor technologies for cars, homes, and workplaces. Their products shape our lives as we know them.

Bosch's continuous integration and continuous testing workflow allows for efficient and effective software development. Before the development of this suite, the process by which Bosch would test and deploy software was very manual. This meant that engineers had to write extensive amounts of code, a set of tests are run to verify that the changes work and do not break any existing functionality. Every time an engineer modifies their code, a set of tests are run to verify that the changes work and do not break any existing functionality. The tests are run automatically before the code is deployed onto the product. This process makes life easier for software developers at Bosch.

Prior to the development of the integration and testing suite, the Bosch must develop better software to deploy onto these sensors. This software would be used to detect the distance, velocity, and identity of these objects. The functionality of each radar is determined by the software that is embedded on it. To make a more enhanced version of a radar, the software must be developed and deployed onto the sensors. A recent project that Bosch has been working on is radar obstacle detection. These radars help to ensure safety in a vehicle by notifying the driver when they are close to an obstacle or automatically braking for collision prevention. They work in conjunction with other sensor technologies for cars, homes, and workplaces. Their products shape our lives as we know them.
Team Dow Artwork Feedback (Ryan)

Original Artwork

Feedback

• Your artwork pieces all look great, but they are too small.
• I made them all larger and moved them around. (Make sure that you renumber them to reflect the new ordering)
• Think about redoing the “shoe” artwork so that there more shoe and less tile floor.
• Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. After correcting the style, your description is too short.
chemical information and models in the manufacturing of their own products. Dow uses this by providing augmented reality experiences. Based on the industry interests of customers, our application generates a list of relevant products. Once a product is selected, it is dropped into augmented reality applications to assist with marketing. At trade shows, these augmented reality applications demonstrate the value of Dow’s materials by providing interactive 3D models of their clients’ products. For each product, a Dow uses augmented reality to address this. Dow is a global leader in plastics. Distribution partners and stores product and models in an SQL database in the Microsoft Azure Engine and the AR Foundation framework for augmented reality. Our application supports both iOS and Android devices.

Team Dow Artwork Feedback
Original Artwork

Modified Artwork
Team Evolutio Artwork Feedback (James)
Original Artwork

Feedback

• Your artwork and basic layout are fine.
• I made them quite a bit larger and moved them around a bit.
• Leave the artwork layout as is in my revised draft when you resubmit your zip folder.
Elephants are seldom captured in drone footage and when present, are difficult to spot. Video data collected from flying over herds of elephants instead of barren desert. Moreover, prediction allows pilots to create flight paths that maximize the chance of flying over herds of elephants instead of barren desert. Prediction allows rangers to be deployed to the correct location for checkups or, in the case of an active poacher situation, to confront the poacher. Elephant identification gives rangers the ability to keep health history on certain elephants without the need to confront the poacher. Elephant identification specifies where in the footage the elephants are, removing the need for manually scrubbing. Elephant recognition requires manually scrubbing through hours of uninformative footage.

ERP is utilizing a UAV to monitor elephants on Dinokeng reserve. Dino is a group of technology professionals founded to preserve and protect Southern Africa's wild Elephants and Rhinos. The ERP Air Force: Drone Elephant Recognition and Tracking ERP market is led to believe. These solutions span across the globe and solve business problems with significantly simpler solutions than the market is led to believe. The dashboard is written using VueJS interfacing with a Python Flask RESTful API. Detection of elephants is done using a YOLOv3 model. Machine learning algorithms recognize and track specific elephants. However, drone operation is costly and time consuming. As part of their initiative to preserve and protect elephants, the ERP Air Force: Drone Elephant Recognition and Tracking project has proven that it is possible to fly a drone over the Dinokeng reserve and detect elephants with minimal cost and time. Since deployment of the ERP Air Force initiative at Dinokeng, no elephants have been harmed and no human injuries or deaths have occurred.
Team Ford Artwork Feedback (Ryan)
Original Artwork

Feedback

• Your artwork is bad.
• What am I looking at? Are the top and bottom pieces web apps? If so, they must be embedded in a browser. Are they intended to run on the head unit in a Ford car? If so, they must be embedded in something that illustrates that.
• The top piece of artwork overlaps the title. It can’t go above the project description.
• There’s too much whitespace. The gap between the top and bottom piece is too large.
• You highlight your chatbot, but your illustration of it was too small to read and occluded by the API operations graph.
• You can swap the top and bottom artwork, and enlarge the mobile without hiding any information. The right side of the “Alex” artwork is empty. The top right of the “API operations” artwork is all black.
• The word “operations” should be capitalized in the API graph.
• Your artwork is VERY LOW resolution. Recapture it in VERY HIGH resolution.
• Your “Alex” artwork blends into the white background. You were supposed to have added a border. Read the directions and fix this.
• Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. After correcting the style, your description is way too short.
The dashboard allows teams to monitor how successful each software product is. The data is collected from an Azure Log Analytics API and a MYSQL database. The dashboard is created with Grafana. These reports help software engineers view the data we have implemented on Ford's websites. They can also schedule daily reports at their convenience. These reports help software engineers answer the questions they may ask about Ford's software.

With the increase of more people shopping online, nearly 200,000 employees worldwide and producing more than 5 million vehicles a year, the company can be tracked by the success of an automobile manufacturer based in Dearborn, Michigan. Ford Mobility Product Metrics Engineering Building, 1300 Hallway | First Floor Ford Motor Company is an international automotive company with over 224,000 employees in nearly 200 countries. Ford's focus is on their employees. Ford employs a lot of engineers and provides a lot of their teams with the right software tools to ensure their projects are being monitored to ensure excellent customer experience.

Teams can monitor the number of people or page views being accessed on a dashboard. The data is collected from an Azure Log Analytics API and a MYSQL database. The dashboard is created with Grafana. Whenever someone visits a Ford webpage, they are being monitored. Software engineers can view the data we have implemented on Ford's websites. They can also schedule daily reports at their convenience. These reports help software engineers answer the questions they may ask about Ford's software.

Teams can monitor the number of people or page views being accessed on a dashboard. The data is collected from an Azure Log Analytics API and a MYSQL database. The dashboard is created with Grafana. Whenever someone visits a Ford webpage, they are being monitored. Software engineers can view the data we have implemented on Ford's websites. They can also schedule daily reports at their convenience. These reports help software engineers answer the questions they may ask about Ford's software.

Teams can monitor the number of people or page views being accessed on a dashboard. The data is collected from an Azure Log Analytics API and a MYSQL database. The dashboard is created with Grafana. Whenever someone visits a Ford webpage, they are being monitored. Software engineers can view the data we have implemented on Ford's websites. They can also schedule daily reports at their convenience. These reports help software engineers answer the questions they may ask about Ford's software.
Your artwork and layout are ok, but..
IMHO, the artwork is rather boring. It’s just two bar charts. You don’t have anything better.
Both pieces have the URL “tableau.com”. Is this a dashboard that you created? Or just something you did with tableau.com?
I resized things so they are the exact same height and I rearranged things a bit.
Users can interact with the system via a Tableau dashboard.

Network logs collected from multiple GM manufacturing plants are analyzed by the monitoring team. Potentially anomalous activity is highlighted with a score that is obtained by analyzing log data using numerous machine learning models. Anomaly detection techniques are required. With the growth of these networks, modern monitoring processes to increase efficiency and reduce errors. This leaves the advantage of its benefits and use interconnected systems and devices from global powerhouse in the automotive design and production industry. These models are continuously trained with the mass amounts of networking equipment data collected in more than 125 countries. To build these automobiles, General Motors manufactures millions of parts and components in more than 30 plants in more than 20 countries. These parts take various forms and perform different functions, but they all involve unique network activities. Active network monitoring is required to detect these anomalies and stay ahead of malicious activities.

An online dashboard provides insights into network traffic in near real time, bringing awareness to potential risks and enabling investigation. Our solution analyzes GM network data subsets using network flow data collected from multiple GM manufacturing plants globally with their headquarters in Detroit, Michigan. As the internet of things grows, manufacturing plants take on new roles and responsibilities, which requires the development of new monitoring tools to stay ahead of potential risks. Anomalies are ranked by a score that includes multiple factors such as the number of times an activity was observed, the rate at which it was observed, and the potential impact on the network. This system is then deployed to monitor and protect against potential risks, such as system malfunctions and malicious activities, in real-time. No alerts are produced without a threshold, ensuring that only significant anomalies are investigated and acted upon.
Team Harvard Law School Artwork Feedback (Ryan)

Original Artwork

Feedback

- Your artwork is a bit too busy.
- I eliminated the upper left one, resized the other two and rearranged them.
- The piece showing the book and the recommendations is the most visually appealing.
- You can cover up much of the piece that illustrates search, yet still get the idea of search.
- Make sure that you renumber your artwork correctly.
- Your artwork blends into the white background. You were supposed to have added a border. Read the directions and fix this.
Team Harvard Law School Artwork Feedback

Original Artwork

Modified Artwork
Team Herman Miller Artwork Feedback (Ryan)
Original Artwork

Feedback

• Your artwork and layout are okay, but...
• What is 78784 and 79608? Update your software to label these numbers.
• What do 93.3% and 90.1% mean? Update your software to label these numbers.
• Update your software to make your swatches larger.
Amazon Web Services for analysis and consistent photographs on the assembly line and upload them to Amazon Web Services for analysis and verification. A Raspberry Pi, which is hosted on Amazon Web Services, utilizes machine learning to accurately verify fabric color and pattern on each part that passes through the assembly line to ensure the correct fabric is being used and no defects are present. Sometimes fabrics are very similar, with small differences barely visible to the human eye. The verification system is configured with a wide array of customization and configuration options for each piece of furniture, including an extensive catalog of over 30,000 fabrics.

Herman Miller's fabric catalog is analyzed to create an accurate representation of available fabrics and to provide the system with a method for comparison and identification. Every piece goes through human verification to ensure the correct fabric is being used and no defects are present. Sometimes fabrics are very similar, with small differences barely visible to the human eye. The verification system is configured with a wide array of customization and configuration options for each piece of furniture, including an extensive catalog of over 30,000 fabrics.
Team Learning A-Z Artwork Feedback (Ryan)

Original Artwork

Feedback

• Your artwork and layout are basically fine.
• I resized and moved things slightly.
• Nice work.
• Aside: Your project description is a bit short.
Our Robot Builder Word Guessing Game is developed using Z software. It communicates with our MySQL database using PHP.

The game chooses words at a skill level to best suit the student. If the student completes the word, they are given the option to enter them to more words of the same difficulty. These robot parts come from Learning A-Z. These parts provide a bonus round where they choose the definition of the word that is displayed. The robot parts appear and the student is awarded a number of stars, which is the currency for the software.

Learning A-Z wants to expand their current suite of software beyond the 21st century skills they need to excel in the classroom and to further their education. We track the words students struggle with to provide a personalized vocabulary learning experience with our Robot Builder Word Guessing Game, which uses Angular for the front end and Swift for iOS platforms. It was presented at our Engineering Building, 1300 Hallway | First Floor, Seoul, Korea.

Founded in 2002, Learning A-Z is an education technology company dedicated to expanding literacy through an extensive collection of thoughtfully designed tools and resources. With nearly 8 million active students, Learning A-Z aims to provide a platform that students and parents can trust for their learning needs.

Team Members:
- Namhee Choi
- Jerod Depifanio
- Renee Wines
- Chris Zhao
- Peyton Ritchie

Project Sponsors:
- Learning A-Z
- Team Learning A-Z
- Z

Team Learning A-Z Artwork Feedback
Original Artwork
Modified Artwork
Team Meijer Artwork Feedback (James)

Original Artwork

Feedback

• Your artwork and layout are ok, but...
• Your login artwork is boring. The instructions explicitly say not to use login screens for artwork. Replace this with something more interesting.
• Your left and center artwork pieces have too much whitespace at the bottom. Add items to the lists and redo the artwork.
• I duplicated one of your pieces of artwork and hacked up the others to illustrate what I mean. Get it?
• Aside: You did NOT use Windows Word to edit your project description. There are non-breaking spaces throughout. You used blank lines for paragraph spacing.
• Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. There are non-breaking spaces throughout. You used blank lines for paragraph spacing.
The design of this algorithm is robust enough to account for different stores, unique items and even considers if items are frozen. The algorithm is designed for professional shoppers to be more effective in their work and provide their customers with faster shopping experience.

By importing existing grocery order data from other third-party services, we seamlessly allow users to access their shopping lists. When logged in, users can view their shopping orders. Speedy Shopper is designed for professional shoppers, who shop for online groceries, to efficiently arrange user's shopping lists for the fastest traversal of the store. This will allow professional shoppers to be more effective in their work and provide their customers with faster shopping experience.

Meijer, one of the country's largest supercenter chains, has 77,000 team members in several states across the Midwest United States. Meijer has over 240 stores, and today's consumers are proving technology like curbside pickup and online grocery ordering.

By importing existing grocery order data from other third-party services, we seamlessly allow users to access their shopping lists. When logged in, users can view their shopping orders. Speedy Shopper is designed for professional shoppers, who shop for online groceries, to efficiently arrange user's shopping lists for the fastest traversal of the store. This will allow professional shoppers to be more effective in their work and provide their customers with faster shopping experience.
The size and layout of your artwork is okay, but...
- Your artwork is incredibly boring. It’s mainly whitespace, and the rest is trivial.
- Come up with something more visually appealing.
- Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. After correcting the style, your description is way too short.
The Michael Sadler Foundation focuses on assisting kids in building their legacies. The foundation uses six pillars of character as stepping stones for this growth, and does so with the GameChang3rs Program.

As the foundation expands, organizing and analyzing the accrued data becomes challenging and complex. The GameChang3rs Learning Management System is the solution to this problem. This web application allows administrators to manage staff and training material and collect student metrics on the effectiveness of different lessons. This system is made to be simple to learn and allows the foundation to continue presenting course material through Google Applications.

Accessible to facilitators, student ambassadors and sponsors, the website is a hub for the foundation's material. Elementary school students are also able to access the website as guests and fill out pre-quizzes and post-quizzes for the lessons they are presented, which the foundation can use for further optimizing their learning materials. This system is developed to be expandable to multiple school districts and organizations.

The GameChang3rs Learning Management System front-ends are built using JavaScript, HTML and Bootstrap. The back-end uses PHP and is hosted on Amazon Web Services through AWS Elastic Beanstalk.
Team Michigan State University ITS Artwork Feedback (Ryan)

Original Artwork

Feedback

- Your artwork.
- I resized and moved things.
- Change the “profile” of the person represented in the upper web app to include a third club to eliminate the whitespace in the upper right.
- I just hacked your upper artwork, duplicating the swimming club to illustrate filling in the whitespace.
Microsoft State University ITS Artwork Feedback

Original Artwork

Team Michigan State University ITS Artwork Feedback

Modified Artwork

Spotlight: Discovering Clubs and Student Organizations
Your artwork is very bad. There is WAY too much whitespace.

The right one is boring. Perhaps you could illustrate a chat session with a specialist rather than just this simple display.

I duplicated one of your pieces to illustrate having three pieces of artwork.

Use paint.net to crop the whitespace from around your artwork. Read the directions.
our ITPro Company Portal. The ITPro Company Portal is a system that enables professionals named the ITPro Company Portal.

With ITPro, company information for specific purposes and utilize this information from remote locations to increase productivity. Given the wide array of mobile access to private corporate information, it's important to keep that information safe from unwanted access and malicious attacks. Thus, company employees' personal mobile devices are both secure and reliable.

Microsoft created web application for IT professionals named the ITPro Company Portal. Prior to using one's personal mobile device for work, the user downloads the ITPro Company Portal app is written in C# using the Xamarin framework within Microsoft Visual Studio. It communicates with Intune via the Microsoft Graph API.

Microsoft is a long-time leader in the technology industry, software solutions created to drive productivity. As the world evolves technologically, the need for mobile access to software has become a prominent necessity. Thus, mobile access not only lowers company hardware costs, but also increases the flexibility and productivity of the employees.

In order to keep company information safe Microsoft is a long-time leader in the technology industry, software solutions created to drive productivity. As the world evolves technologically, the need for mobile access to software has become a prominent necessity. Thus, mobile access not only lowers company hardware costs, but also increases the flexibility and productivity of the employees.

In order to keep company information safe Microsoft is a long-time leader in the technology industry, software solutions created to drive productivity. As the world evolves technologically, the need for mobile access to software has become a prominent necessity. Thus, mobile access not only lowers company hardware costs, but also increases the flexibility and productivity of the employees.
Team Mozilla Artwork Feedback (James)

Original Artwork

Feedback

- Fundamentally, your artwork is ok.
- Your project is hard to illustrate and you’ve done a good job, but...
- There’s a TON of whitespace on either side of the webpage. Choose a better example with little or no whitespace.
- Shouldn’t every piece of the lower webpage be highlighted (with dashed lines)? Why is some of it not highlighted? It looks like it’s not running in a process.
These advancements are implemented using JavaScript, with Mercurial used for version control and Phabricator used for code reviews.

Firefox acts like a middleman for all communication. This means that different parts of the webpage are unable to communicate with each other directly; instead of running everything on a website in a single process, each webpage runs within a task (analogous to threads running within that page). Firefox, each webpage runs in its own process, with multiple threads running in parallel. This allows for the content of a webpage to be reworked. This and lock down their browser to prevent such privacy violations.

Security of its users is crucial to the corporation. Mozilla’s most popular project, Firefox, is a global, nonprofit organization dedicated to improving the World Wide Web. Mozilla Corporation is taking initiative for this and is focused on open source development. From the main website, such as login information, videos. Mozilla places a strong focus on open source development. This is the underlying infrastructure needs to be reworked. Mozilla is a global, nonprofit organization dedicated to improving the World Wide Web. Mozilla Corporation is taking initiative for this and is focused on open source development. From the main website, such as login information, videos.

JavaScript, used for computer science subtasks, is taking initiative for this and is focused on open source development. From the main website, such as login information, videos.
Your artwork is basically ok.
I resized and moved things.
Can you fix the layout under “Current offered plans” to get rid of the whitespace?
Change the PIN to be something other than “1234” so it looks more realistic.
Your question to Alexa ends in a question mark, yet your other balloons do not have punctuation. Fix this.
The trailing quote of “You are 400 dollars away from your goal” is NOT a smart quote. Fix this.
Your mobile app device has a shadow on the bottom. Get rid of it. Did you use the website that I recommended to find device images?
Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. After correcting the style, your description is way too short.
As the age of digitalization progresses forward, user experiences have become increasingly automated and impersonal. Now, more than ever, it is imperative for businesses to provide a more personal, engaging experience to consumers. MSU Federal Credit Union (MSUFCU) is the largest university-based credit union in the world, serving 280,000 member households and over $4.5 billion in assets. MSUFCU is the largest university-based credit union in the world, serving 280,000 member households and over $4.5 billion in assets.

MSUFCU is a hyper-personalized banking platform aimed at understanding members' financial needs and life goals to ultimately provide a better, more personal experience during interactions with members. The CRM is available on all devices running iOS, Android, and web browsers. The iOS app is built using Swift, and the website is primarily HTML, CSS, and PHP. All applications call an API running Python Flask.

Hopes and Dreams is a hyper-personalized banking platform aimed at understanding members' financial needs and life goals to ultimately provide a better, more personal experience during interactions with members. The CRM is available on all devices running iOS, Android, and web browsers. The iOS app is built using Swift, and the website is primarily HTML, CSS, and PHP. All applications call an API running Python Flask.
Your artwork looks great!
I made no changes.
Nice work!
Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description.
Proofpoint is an innovative cybersecurity company offering protection to a wide range of Fortune 100 corporations as well as public institutions such as Michigan State University. It is headquartered in Sunnyvale, California.

The Capstone Experience is a project that allows students to gain adequate data from threats in a controlled environment, the cybersecurity industry often turns to a mechanism such as Honeypots, whether in the form of a website or document, appears to contain information an attacker would find valuable but is worthless. Upon accessing the website, the attacker's actions are monitored, and their methods analyzed. The dashboard allows researchers to quickly develop lure websites, GPT-2 generates believable documents, and Suricata continuously monitors traffic and accumulates data.

Proofpoint's intuitive dashboard allows researchers to investigate individual attacks and the efficacy of each lure. By investigating individual attacks and the efficacy of each lure, researchers can effectively simplify the process outlined above to continuously monitor traffic areas, and stream obtained data back to the bottom of the paper to the right.

Proofpoint is designed to swiftly analyze and study these state-sponsored terrorists to better understand their attack patterns and to thwart future attacks. Proofpoint's mechanism, whether in the form of a website or document, appears to contain information an attacker would find valuable but is worthless. Upon accessing the website, the attacker's actions are monitored, and their methods analyzed. The dashboard allows researchers to investigate individual attacks and the efficacy of each lure.
• Your artwork is fundamentally good.
• I resized and moved things a bit.
• The BIG BLACK rectangle is boring. Can you do a screen grab with something showing in that window?
Cloud helps save time as For example, if a claim agent searches the words “car crash”, all information they are looking for transcription by keywords, or scroll manually, to find the will keep a relationship with the audio file to prevent the need for re-transcription again.

New actions become available from thes when an audio file is opened, the option to transcribe it is where the transcribed audio file can be found. This makes extracting information across time consuming.

When an audio file is opened, the option to transcribe it is available, especially if the images have vague names.

TSG demonstrates the ability to transcribe audio, which is needed for every search the company conducts, and the image file to prevent the need for re-transcription of images.

The team is able to search by image content.

Apache Tomcat, HTML, Java, JavaScript, and GCP Services: Cloud Bigtable, Cloud Storage, Speech API, and Vision API.

Tech is a leading provider of content management solutions.

TSG has many clients across a wide range of industries and is a new leading provider of content management solutions.

Document Management using Google Cloud Platform (GCP) focuses on helping companies manage their data.

Claim agents spend copious amounts of time re-taking phone calls and manually checking images and search through images.

Founded in 1996, TSG’s existing software was updated to offer the ability to transcribe audio files, which is needed for every search the company conducts.

TSG’s clients include insurance companies, whose claims agents are especially interested in searching for information regarding new incidents, especially if the images have vague names.

The team is interested in searching for information regarding incidents, especially if the images have vague names.

This makes extracting information across time consuming.

The team is able to search by image content.
Team TechSmith Artwork Feedback (James)

Original Artwork

Feedback

• Your artwork is ok, but too busy.
• The “My Projects” artwork is boring. Eliminate it.
• I eliminated the “My Projects” artwork, resized the other two, and rearranged them.
• With the larger size, it will be possible to read the contents in the booklet.
• Be sure to renumber your artwork correctly.
Team TechSmith Artwork Feedback

Original Artwork

Modified Artwork

FFmpeg is used to render and complete the final video.
Team Union Pacific Artwork Feedback (Ryan)

Original Artwork Feedback

- There’s too much whitespace in your artwork.
- The upper artwork is boring. Replace it with something graphical.
- Recapture the lower artwork to eliminate the whitespace.
- I hacked up some things just to illustrate what I mean.
- Be sure to number your artwork correctly.
Team Union Pacific Artwork Feedback

Original Artwork

Our Railroad Physics Data Visualization project has a front-end web UI that uses the Angular framework and is written in Java, which runs in a Tomcat environment and communicates with an Oracle MySQL database.

The visual output our project generates includes an animated graph that displays the forces between its cars over time. Another graph compares the speed of the train over the course of the simulation. One of these graphs shows the data from the files uploaded. Once a user chooses a file, they can either view the visual output on our web UI, or download a file with the analysis of the simulation results.

Derailments cost transportation companies millions every year. While the simulation records data such as speed and brake force, it is also used to analyze such incidents. Employees with the Train Physics project also diagnose causes.

Union Pacific Railroad Physics Data Visualization provides a user dashboard page for uploading and viewing previously uploaded files. Our project also includes a user dashboard for uploading and viewing previously uploaded files. Files uploaded by the user can be analyzed, and they have the option to either view the visual output or download an Excel file with the analysis of the simulation results.

Union Pacific is a railroad transportation company in America. With over 32,000 employees, 3,200 miles of track in 23 states, 8,000 locomotives, and 43,000 employees, Union Pacific is important part in the transportation of goods in the nation.

The Railroad Physics Data Visualization project provides a based user interface that converts the data from the files uploaded into graphical output. These interactive graphs aid in the analysis of the simulation results. Users can download a file with the analysis of the simulation results.

Derailments cost transportation companies millions every year. While the simulation records data such as speed and brake force, it is also used to analyze such incidents. Employees with the Train Physics project also diagnose causes.

Union Pacific uses simulations to analyze such incidents. Derailments cost transportation companies millions every year. While the simulation records data such as speed and brake force, it is also used to analyze such incidents. Employees with the Train Physics project also diagnose causes.

Union Pacific was founded in 1862 and is now the leading transportation company in America. With over 32,000 employees, 3,200 miles of track in 23 states, 8,000 locomotives, and 43,000 employees, Union Pacific is an important part in the transportation of goods in the nation.
Team United Airlines Artwork Feedback (James)

Original Artwork  Feedback

• Your artwork is okay, but there’s WAY too much whitespace.
• I enlarged and moved things.
• Create another piece of mobile artwork.
• Your existing mobile artwork is BORING. It just has “Schedule Planner” highlighted. Instead of showing these selections, show two different examples of using some of these features.
• Make sure that you number your artwork correctly.
• Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. After correcting the style, your description is short.
Our Training Scheduling and Optimization System II

The web app is fully functional using both web and mobile browsers. An instructor logs into the system to view their schedule, which is in a calendar frame. The scheduler inputs a set of classes, along with the requested time and information about the instructor and classroom. When the scheduler goes to schedule a course, the system displays available instructors and classrooms. The system will recommend the best possible schedule within a given time frame, which can be optimized further.

The web app contains forms to edit the schedule. A notification will alert the scheduler if a conflict is attempted to be scheduled. The system also has an optimizer that recommends an optimal schedule. The optimizer can make use of past schedules to learn and improve its recommendations. If a conflict is attempted to be scheduled, the system will alert the scheduler.

The web app is hosted as an app service on Azure Cloud Platform. The system is built using Entity Framework, ASP.NET Core, Angular, and an Azure SQL database. This allows for efficient data storage and retrieval, as well as providing a scalable solution for the United Airlines Technical Operations division.

The Technical Operations division at United Airlines has 60 instructors, who teach maintenance training courses across the country. United Airlines is the world's second largest airline, operating 4,600 flights a day to 357 destinations. To maintain its fleet of 1,300 aircraft and ensure successful flights, it is crucial to have properly trained personnel. The training scheduling system is designed to meet these needs, with an easy-to-use interface and robust features for scheduling courses.

The Capstone Experience

The team consists of four members: Andrew Ferguson, Laura Danila, Josh Pezeshki, and Frank Soenke. They are working closely with United Airlines to develop and implement the training scheduling system.

Project Sponsors

The project is sponsored by United Airlines, with Tom Wilson as the main sponsor. United Airlines provided the necessary resources and support to make this project a reality.

Team Members

The team consists of four members: Andrew Ferguson, Laura Danila, Josh Pezeshki, and Frank Soenke. They are working closely with United Airlines to develop and implement the training scheduling system.

Team United Airlines Artwork Feedback

Original Artwork

Modified Artwork

Design Day Booklet Project Page Template

The Capstone Experience

Design Day Booklet Content Feedback
Your top piece of artwork is terrible. It’s all whitespace and it’s incredibly boring. You really don’t have anything more visually appealing to illustrate your work? Get rid of this.

Your lower artwork has too much whitespace. Recapture it without the whitespace.

I hacked your lower artwork, just cropping it to illustrate getting rid of the whitespace.

I copied your lower artwork just to illustrate eliminating the whitespace.

Make sure that you number your artwork correctly.

Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description. After correcting the style, your description is WAY too short.
AutoHook Creative Tool is an ASP.net web application that is deployed on Microsoft Azure, using bootstrap stylings for its front end components. Template data is updated and loaded from an SQL database that is hosted on Microsoft Azure.

Urban Science is an internationally utilized solutions company comprised of subsidiary companies, Urban Science assists automotive dealers and Original Equipment Manufacturer (OEM) to increase vehicle sales. Each form needs to be created to fit the specific OEM/dealer that will be distributing the forms. The AutoHook Creative Tool saves time and money by putting all of these in one web application.

AutoHook provides custom incentive-driven forms. Users choose a project to work on and using an in browser template editor. Using its intuitive user interface, AutoHook employees can easily navigate through different projects and quickly create changes to HTML code and see a representation of their changes all on one page.

AutoHook Creative Tool assists in distributing forms. The AutoHook Creative Tool is driven forms and assists in increasing traffic through AutoHook.

Urban Science takes a data driven scientific approach to assist automotive, health and retail industries. Comprised of subsidiary companies, Urban Science assists automotive dealers and OEM (Original Equipment Manufacturer) companies.

Team Urban Science Artwork Feedback

Original Artwork

Modified Artwork
Team Vectorform Artwork Feedback (James)

Original Artwork

Feedback

- The fundamental concept of your artwork is good, but...
- The plot is incredibly boring. “X”, “Y”, “Z”? “Axises” is spelled wrong? Really?
- One photo of a washer is plenty. Eliminate the closeup of your prototype device. And, retake the photo of the washer WITHOUT the Sparty helmet behind it.
- Fix the style of your plots so that they are not so boring and all white.
- Create two interesting plots. Make them with a landscape aspect ratio rather than square.
- Make sure you number your artwork correctly.

Founded in 1999, Vectorform invents digital products and experiences for the world’s leading brands, with a focus on Immersive Technologies. It is common for people to forget that they tossed a load of laundry in the washer earlier. Project Rumble aims to ease the burden on our busy brains by integrating a user’s washing machine into the Internet of Things. A sensor placed on the washing machine will determine whether the machine is currently running or not based on the vibrations created during a wash cycle. When the Rumble sensor detects that a wash cycle has finished, the user will receive an update. Users can also view the history of past wash cycles that the Rumble sensor has recorded through a web app.

The Rumble sensor uses the Adafruit ESP32 as the main microcontroller, running a neural net implemented in C++. Readings from the Rumble are pushed to the server via MQTT, where they are stored in a MySQL database. The web app is implemented using HTML, CSS and the React.js extension Victory React for data visualization.
React for data visualization. The web app is implemented using HTML, CSS and the React.js extension Victory.

Readings from the Rumble are pushed to the server via MQTT, microcontroller, running a neural net implemented in C++. When a wash cycle is finished, the user will receive an alert via their mobile device, notifying them of the end of the cycle.

People in modern society often lead busy lives, doing hours of work, attending school, running errands, and more. However, there are often times when people tend to forget important things, especially when they are doing hours of work or attending school. For example, it can be easy for people to forget that they tossed a load of laundry in the washer earlier. When thinking about how much mental labor we do daily, it can be easy to forget these important projects.

Aims to ease the burden on our busy brains by inventing digital products and experiences for the world's leading brands, with a focus on Smart Homes, Connected Vehicles, and Wearable Technologies. Founded in 1999, Vectorform invents digital products and experiences for the world's leading brands, with a focus on Smart Homes, Connected Vehicles, and Wearable Technologies. The Capstone Experience aims to ease the burden on our busy brains by inventing digital products and experiences for the world's leading brands, with a focus on Smart Homes, Connected Vehicles, and Wearable Technologies.
Team Volkswagen Artwork Feedback (James)

Original Artwork

Feedback

• Your artwork looks great! Nice work!
• I rearranged things slightly
• You “head unit” has a shadow. Can you get rid of it?
• Aside: You messed up the paragraph style of your project description. Use Windows Word. The paragraph style must be 3-project-description.
The Web Application is written in TypeScript, HTML and CSS through the web development framework Angular.
Team Yello Artwork Feedback (Ryan)
Original Artwork

Feedback

• Your artwork and layout are fine.
• I resized things so both pieces are the exact same width.
• Add an “arrow” that illustrates that your software converts the information in the upper artwork to the lower. I hacked something together. It’ll be a 3rd piece of artwork. You should do a better job of picking the color and shape (than I did). You can use PowerPoint to make one and save it as a png.
• Do you “normalize” phone number formats too? If so, illustrate this too.
Our intelligent and adaptive data mapping web app is built on Django, a web framework based on Python, which is easy to use and enables high performance. It is hosted through Firebase, which provides a NoSQL database, making it easy to store and retrieve data.

When collecting information about applicants at recruiting events, this app allows recruiters to make informed decisions. It is designed to attract the top talent for nearly 100 of the Fortune 500.

When using this application, the user's name is collected and is ordered to ensure a higher accuracy. This problem often occurs with academic majors too. When they type in their name, the application collects the name and orders the words accordingly. For example, Michigan State University is abbreviated as MSU. This problem is mitigated by Yello to suggest the standard input based on the collected data. This data is as simple as an abbreviated school name or major. As an alternative, the user can manually input the data which is easy to use, enabling recruiters to collaborate with one another to a higher degree.

This problem also occurs with academic majors too. Often this problem is mitigated by Yello to suggest the standard input by using university data collected in the application. This is built on Django which is easy to use, and the NoSQL database hosted through Firebase helps in storing and retrieving data quickly.

When using this application, the user's name is collected and is ordered to ensure a higher accuracy. This problem often occurs with academic majors too. When they type in their name, the application collects the name and orders the words accordingly. For example, Michigan State University is abbreviated as MSU. This problem is mitigated by Yello to suggest the standard input based on the collected data. This data is as simple as an abbreviated school name or major. As an alternative, the user can manually input the data which is easy to use, enabling recruiters to collaborate with one another to a higher degree.
What’s ahead?

All-Hands Meetings

• 10/08: Design Day Booklet Assets Due by Midnight
• 10/09: Team Status Report Presentations
• 10/14: Team Alpha Presentations
• 10/16: Team Alpha Presentations
• 10/21: Team Alpha Presentations
• 11/18: Team Beta Presentations
• 11/28: Thanksgiving
• 12/02: Project Videos
• 12/06: Design Day