Project Plan Presentations Today
September 25, Anthony 1279

• Team Yello
• Team Union Pacific
• Team Harvard Law School
• Team Ford
From Students…
…to Professionals

Project Plan
Intelligent and Adaptive Data Mapping
The Capstone Experience
Team Yello
Chang Ge
Danielle Kelley
Edward Watson
Nichols Xiong
Chenjie Zhang

Department of Computer Science and Engineering
Michigan State University
Fall 2019
Functional Specifications

• Take in user input and make suggestions to user while typing
• Return standardized output based on data collected by Yello
• Possibly allowing for candidates to upload their resume
Design Specifications

- Graphically simple and straightforward user interface important for candidate and recruiter as well as Yello
- Gathers enough useful information from the candidate for recruiters without requiring an extended interaction with the application
Screen Mockup: Data Submission Page

Let's Get to Know You

Name

School

Major

REGISTER

Career Fair
Help
Screen Mockup: Data Submission Page
Screen Mockup: Data Submission Page
Screen Mockup: Data Submission Page
Technical Specifications

• JavaScript
• Python
• Django
• PhpStorm
• React
• Firebase
• AutoComplete
System Architecture

User input
Autocomplete

React

Data

Firebase

User input

django

python

Query
Query results
System Components

• Hardware Platforms
  ▪ Firebase

• Software Platforms / Technologies
  ▪ PhpStorm
  ▪ PyCharm
Risks

• User Input Errors (High)
  ▪ User may supply algorithm with misspellings resulting in no match, if the error is not caught the data supplied will have errors and inconsistencies
  ▪ Create spell-check module in tandem with our matching algorithm

• Instantaneous Autofill and Open source verification (High)
  ▪ We found a useful open source module that can be implemented for instantaneous autofill
  ▪ We verified the use of open source with Yello but will minimize our use of open source code in other features

• Scalability of Application (Medium)
  ▪ If Yello decides to scale this app upwards for use elsewhere we will have to be cautious in our design to maximize efficiency
  ▪ Practice good coding standards and document our code as well as using Firebase to imitate a server system

• Reliance on reliable network (Low)
  ▪ The online nature of the project requires the user to always be connected to the Internet
  ▪ Research offline caching to store temporary backups of user data
Questions?