SW Engineering CSC648/848 Spring 2021

**PipeWave**

*"The Fast-Track from Student to Professional"*

Team Lead/Front End: Jennifer Finaldi,

Team Lead Email: jfinaldi32@gmail.com

Database/Back End: Robert Cacho Ruiz

Front End: Kevin Danh

Back End: Jahir Hernandez

Github: Anthony Nguyen

Section 02, Team 04

Milestone 1-- 02/12/2021

History Table (Revision Summary):

02/12/2021: Document Created

1. **Executive Summary**:

Today's high-tech job market lacks a streamlined process of San Francisco State University (SFSU) talent to those who need it, with many students unaware of what positions exist that they would be best suited for. This leaves them on their own to find a career, with little guidance or direction to the right path for them. In addition, companies in need of talent are consuming more time and resources in the process of finding new talent because of the lack of streamlined connection to bridge the gap between the two. A need such as this will be accommodated by PipeWave, an interactive web community and database that connects University talent to various high-tech companies in the Silicon Valley area. This software is intended to create a cohesive process that quickly matches industry positions with the best candidate from SFSU.

With PipeWave, Talent Acquisition, Employee Resource Groups, and Non-profit Organizations will be able to take advantage of some key features to assist them. The first major feature allows registration for alerts when a profile matches the description of their available roles. The second allows extensive search capabilities to find students or recent graduates who may be a good match for a particular opening. Assisting this process will be a unique feature that allows university professors to rate students on a scale of 1 - 5 (with 5 being highest) in areas such as professionalism, talent, work ethic, knowledge, and leadership. With professor insights, talent-seekers can get a better picture of who each student is, than from just a self-created resume alone. It also creates a streamlined process for professors to recommend outstanding individuals without having to deal with the time-consuming process of writing detailed letters of recommendation for each student they wish to assist.

Students will be able to upload a profile complete with their resume, demographics, videos such as project demos or introductions, contact information, head shot, relevant experience, and much more. The key advantage to students is having a strong connection between their university and the tech industry, to ensure that their hard academic work will put a spotlight on them when the time comes to transition from student to professional. It will reduce the problem of capable SFSU students and graduates getting lost in the virtual pile of resumes on various job searching websites, allowing them to stand out in a region already saturated with available talent. Students who are of underrepresented demographics will also be able to be seen easier, with the overall result of getting to the job market faster and facilitating the growth of their careers at an increased speed.

Our student startup team consists of a range of dedicated talent. Acting as team lead is Jennifer Finaldi, a senior at SFSU who aspires to get into native application development or embedded systems. Robert Cacho Ruiz is a senior computer science major who aspires to be a web developer, working on back end technologies for PipeWave such as Google Cloud and MySQL. Jahir Hernandez, is also a back end developer and a senior, who enjoys coding native applications in addition to web development. Managing remote repositories is Anthony Nguyen, a senior from the Bay Area who enjoys web development and gaming. Kevin Danh is PipeWave's lead front end developer and aspiring game developer, working to create an intuitive user interface.

2. Personas and main use cases - **Jahir**

3. List of main data items and entities - **Robert**

**Note: We likely cannot use tables, as page 2 of the M1 pdf states that we should use same font and spacing. I can verify this with the professor, but we should plan to list things in bulleted format, to match the format of the prompt. -Jenn**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **name** | **meaning** | **usage** |
| **1** | **Default Accounts** | **User able to post their resumes for outreach** | **Essential to website** |
| **2** | **Professor Accounts** | **User able to review previous students to enhance their outreach** | **Reviews Previous Students** |
| **3** | **Org. Accounts** | **Organizations seeking talent, able to contact accounts seeking new opportunities** | **Essential to website** |
| **4** |  |  |  |
| **5** |  |  |  |
| **6** |  |  |  |
| **7** |  |  |  |
| **8** |  |  |  |
| **9** |  |  |  |
| **10** |  |  |  |

4. Initial list of functional requirements - **Kevin**

5. List of non-functional requirements - **Robert**

6. Competitive Analysis - **Kevin**

7. High-level system architecture and technologies used - **Anthony**

**Structure: MVC System Architecture**

**Technologies Used:  NodeJS / Express JS and templating Engine Handlebars**

**Supported Browsers:**

8. **Team and roles**:

Team Lead: Jennifer Finaldi

Github Manager: Anthony Nguyen

Database Manager: Robert Cacho Ruiz

Front End Manager: Kevin Danh, Jennifer Finaldi

Back End Manager: Jahir Hernandez, Robert Cacho Ruiz

9. **Checklist:**

* Team found a time slot to meet outside of the class -- **DONE**
* Github master chosen -- **DONE**
* Team decided and agreed together on using the listed SW tools and deployment server -- **DONE**
* Team ready and able to use the chosen back and front end frameworks and those who need to learn are working on learning and practicing -- **DONE**
* Team lead ensured that all team members read the final M1 and agree/understand it before submission -- **ON TRACK**
* Github organized as discussed in class (e.g. master branch, development branch, folder for milestone documents, etc.) -- **DONE**