**CEN 4010 Principles of Software Engineering**

**Fall 2019**

**Milestone 1: Project Proposal and High-level Description**

**Team name: Team 13**

**Project name: Owl Eyes**

**Team number: 13**

**Names: Saïd Blanc, Caren Youssef, Olusola Fatade, Benjamin Blakely**

**Emails:** [**saidblanc2016@fau.edu**](mailto:saidblanc2016@fau.edu)**,** [**cyoussef2017@fau.edu**](mailto:cyoussef2017@fau.edu)**,** [**ofatade2015@fau.edu**](mailto:ofatade2015@fau.edu)**,** [**bblakely2017@fau.edu**](mailto:bblakely2017@fau.edu)

**Documentation date: 9/22/2019**

**History Table**

|  |  |
| --- | --- |
| Revision Dates | Instructor’s feedback |
|  |  |
|  |  |
|  |  |
|  |  |

**M1 Project Proposal Report**

1. **Executive Summary**

The goal of this project is to create a platform that will allow FAU students, organizations, and administrative staff to share important information with each other in an efficient way. Our web app, Owl Eyes, will accomplish this using two main structures: a news feed and a reporting tool. The news feed will be populated with posts made by organizations and staff. Organizations will include groups such as honor societies, fraternities/sororities, university departments, and any other bodies that students would expect to host events or deliver news. Administrative staff refers to the decision making body of FAU. Students will be able to choose which organizations the posts on their feed will be from. The reporting tool will allow students to directly report to administrative staff any issues on campus that need addressing. Using these structures, we plan to create an application that can inform students, organizations, and staff of events in a way that is more personalized, efficient, and attractive than current alternatives such as fauevents.com and department-wide email lists; but, is also more streamlined and focused than other social media websites.

1. **Competitive Analysis**

|  |  |  |  |
| --- | --- | --- | --- |
| Features: |  |  |  |
| myFAU Events | Event List | Search Function | Saved Events |
| Owl Eyes | Event Feed | Report Function | Subscriptions |

* While not bad, myFAU’s event page currently does not live up to its full potential. It offers a list of the events on campus, allows you to bookmark the ones you want, and search past events. The functionality is there, however it is not very user friendly. In contrast, our product will mirror a template much more familiar to, and sought out by, college students. We will have a live feed of events on campus, posted by organizations, and students will have the ability to see updates from the organizations that they’re subscribed to. Students will also have the ability to report things on campus that they feel deserves the attention of campus administration, thus bypassing the usual disconnect between administration and student body. Finally, our product will also include a search function, allowing for easy access to any available information that might otherwise get swept away.

1. **Data Definition** 
   1. Main data elements
      1. The Feed (*main page*):
         1. The Feed will display data that shows what the overall campus status is. The data displayed will include: campus news, clubs, and activities. It will also have a section to log in so users can perform different actions on the website. Additionally, this page will have a section for Administration view/Campus staff where admins will be able to manage the website and respond to reports.
      2. Login page:
         1. The login page will ask users to log-in in order to perform different tasks. It will also determine the level of each user (student, organization, or campus staff). Each user-level in this hierarchy will have different privileges.
      3. SQL database tables:
         1. Account information
            * Information about the students reporting accidents or issues on campus. Data collected can include: first name, last name, school email, etc.
         2. Feed data
            * Data about campus activities, reported issues, news, clubs, etc. The feed will also display pictures and graphics to make the website attractive and user-friendly.
         3. Submission data
            * Data collected from reports submitted either by students, staff, or organizations about campus problems. For example, leaking in classrooms, broken AC in the library, broken lamp pole on the side-walk, etc.
   2. Types of users
      1. Students
         1. As mentioned in the project specifications, students utilizing our website will be able to report any issues or problems happening on campus. Students will be able to upload pictures and text to better explain their submission and will be able to view the status of their report (reported, in process, resolved, etc.) Additionally, students will be able to view positive events that are taking place on campus, such as , exciting games, outdoor concerts, and students’ activities.
      2. Organizations
         1. Organizations will have the same privileges as the students with the addition of being able to post and advertise their own events and activities. This can include organizations’ events, competitions, meetings, etc. This privilege will not be allowed to students in order to avoid spamming the website with different uploads from each student.
         2. Organizations will also be able to respond to reports that relate to an organization’s activity or event.
      3. Campus Staff/Administration
         1. Campus Staff will have the highest level of control over the website. They will be able to make changes to the feed, view, address, and resolve submitted reports, and post alerts or important messages to the students. These privileges are intended to aid the University’s Campus Staff in assessing the status of the campus and providing the help needed when utilizing the website.
2. **Overview, Scenarios and Use Cases**
   1. Students and faculty need a pipeline that can more consistently connect them to one another, as well as one that offers better overview and easier access to campus happenings.
   2. Using Owl Eyes, students should be able to view public postings and events, report incidents (either doing so anonymously or otherwise by logging in), and further connect with organizations on campus.
   3. For faculty members, this system would offer access to the same tools given to students, but with elevated status - allowing them to send and receive priority tickets to other staff members, view relevant student requests, and create public postings that students can view.
   4. Staff members will also be given the authority to create and manage organizations within the Owl Eyes system, which will function as separate entities that students and staff can follow to get access to group specific postings - helping to keep users informed about events which they indicate would be most relevant to them, as well as helping to keep feeds organized and succinct.
3. **Initial List of High-Level Functional Requirements** 
   1. This is a list of high-level functionality that our team will develop to the best of our knowledge to accommodate the project requirements.
      1. Easy-to-navigate Feed
         1. Our website’s feed shall be user-friendly and easy to navigate. Users shall be able to click a button and be directed to one of the “Log in”, “Main”, or “Report” pages.
      2. Report and Upload
         1. Our website shall allow students and organizations to upload pictures and text to report the problems on campus.
      3. Display status report
         1. Our website shall allow users who have submitted a problem to see the status of their request (reported, in process, resolved).
      4. Organizations’ privileges to post
         1. Our website shall allow Organizations to post and advertise information about their events and activities and this information shall be merged to display on the main page Feed.
      5. Campus staff privileges to control
         1. Our website shall allow Campus Staff to respond to reports and change their status. Our website shall also allow Campus Staff to post alerts and important messages to the Feed as needed.
4. **List of Non-Functional Requirements**
   1. Search Function
   2. Bios for Campus Organizations
   3. Complete privacy encryption
   4. Able to handle massive user traffic smoothly
5. **High-Level System Architecture**
   1. Front-end

The front end of this web application will be made using html, css, and javascript. We will also be using the bootstrap 4 framework to help make the website well-designed and responsive. Finally, we will use AJAX to make calls to our server-side scripts when needed.

* 1. Backend

This application will be deployed using a LAMP stack. It will be hosted using Apache Web Server. The server-side scripting will be in php, and mySQL will be used for data storage.

1. **Team** 
   1. Caren Youssef, Benjamin Blakely, Saïd Blanc, Sola Fatade
   2. Scrum master: Caren
   3. Product owner: Benjamin
   4. Development team: Saïd and Sola
2. **Checklist**

a) Team decided on basic means of communications

*DONE*

b) Team found a time slot to meet outside of the class

*DONE*

c) Front and back end team leads chosen

*DONE*

d) Github master chosen

*DONE*

e) Team ready and able to use the chosen back and front-end frameworks

*ON TRACK*

f) Skills of each team member defined and known to all

*ON TRACK*

g) Team lead ensured that all team members read the final M1 and agree/understand it before submission

*DONE*