CEN 4010 Principles of Software Engineering

MILESTONE 1 PROJECT PROPOSAL AND HIGH-LEVEL DESCRIPTION

Team Name: THE DREAM TECHS

Team/Group Number: 9

Group Members:

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Revision Table:

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| --- | --- |
| Date: | Revision: |
| October 9, 2019 | Added revision table, added competitor, revised data definitions, amended scenarios, added documentation to GitHub |
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# Executive Summary

In this project, we will create a web system called Campus Snapshots. By using this system, people on campus can report issues that need to be addressed as well as campus events. We are developing this project to help students and faculty stay in the know of issues, events, and news. Also, to ensure that the upkeep, the appearance, and maintenance of the campus remains properly maintained.

# Competitive Analysis

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| --- | --- |
| **Campus Snapshot** | **Competition (FAU)** |
| 1. Report instantaneous issues/events | 1. Only can report concerns NOT events. |
| 1. Real-time Snapshots of campus status to University administration | 1. If need immediate attention, call 9-1-1. |
| 1. Motivate users to upload and report problems and events | 1. Doesn’t motivate users to upload and report problems and events |

The planned advantages for this project page are the instantaneous reports of issues and events, University administration is notified immediately, & the motivation the page gives users to upload and report problems and events.

# Data Definition

* Account: An account contains the username and password of a user who can log in and use the website. You must have an account to use the website. Different account types include student, staff, and campus officer.
* Issue: An issue is a user created message that shows up on user’s feeds. Anyone can create an issue
* Status: A status is also a user created message that shows up on user’s feeds. Student status updates need to be approved by a staff account.

# Overview, scenarios and use cases

The web system called Campus Snapshots will allow students, teachers, staff, and all campus goers to report all news, events, technical breakdowns, sanitary issues, and any other issues that take place on campus instantaneously. A student can use this system to post a need for tutor, or even offer tutoring services. A teacher can report a toilet overflowing, or an activity organizer can announce a charity concert. Campus statuses are also given to campus staff when they periodically check the system to monitor campus activity. The system can also be used for security reasons. A student can post suspicious activity, and a campus officer can check the system to irregularities reported by other campus goers.

Sam is a student at FAU. He wishes to organize a fundraising concert to raise money to fund an initiative to bring awareness to social injustice and poverty in inner cities. The concert will consist of local talent that includes students, and any faculty and staff. The concert headers will be determined by having a talent show, and the finalist will be the entertainment for the concert. Sam needs to be able to spread the word for both the talent show and the concert to all campus goers.

Sam sends a message through Canvas to his fellow students in his calculus class on how he can best get the word out to all fellow campus goers of his upcoming talent show and concert. A student messages back to him that he can use a system called Campus Snapshots, which is a site that allows all campus goers to update, in real time any news and reports of things happening on campus. Campus goers can post pictures and videos associated with the news that the are sharing, hat will be accessible to all other campus goers. Sam uses Campus Snapshots to upload content related to his upcoming events to notify campus goers on the details and demographics to get the word out.

A user or a group of users have videos, photos, or texts to be posted on the system. These can be photos or videos taken on a smartphone, or text typed on a post directly to the system. The user must create an account to the system.

The user logs into the system giving their username and password. Once logged in, the campus goer is prompted to upload an event, giving them the option to type a description of the event, along with any associated media. Uploads are listed under the description of the event, along with the poster’s username.

Once an event is posted, the system sends an email to the poster confirming the post was successful, and a message is displayed to the poster that their post and event has been uploaded and is now visible to all users.

Possible issues with the system include the following:

The system is self-sustaining, and because 24-hour monitoring cannot be done by the moderator, uploaded content cannot be filtered in real-time. This poses a problem given the real-time nature of the system. Moderation will require other users report content that is either offensive, abusive, or unsafe for any user of the system.

The system is user driven, and being so makes it difficult to validate the trustworthiness post that are uploaded by users. Moderators will have to frequently check posts for user violations and compliance issues.

The system administrator may be logged in, flagging posted content that goes against the user agreement.

System state on completion:

The campus goer is signed into the system. The event and associated media have been posted and is currently visible to all users that are signed in. Posted information is visible to the system administrator, who will do nothing if the content of the posted event is compliant to the user agreement.

# Initial list of high-level functional requirements

* Create Account: First-time users will be able to create an account and choose their account type based on their status with the school. Different account types include student, staff, and campus officer. Each account is associated with a unique username and password.
* Sign In with Current Account: Each existing user will be asked to sign into their accounts at the start of the session.
* Report Issue: Once signed in users will be able to report issues based on what they are experiencing. Issue types include suspicious activity and technical breakdowns.
* Post Status Update: All users can post status updates but student updates need to be approved by a staff account.

# List of non-functional requirements

1. The application should run on two latest versions of all major web browsers: Mozilla, Safari, Chrome, IE, Firefox, etc.

2. Data shall be stored in the database on the server

3. Privacy of users shall be protected, all privacy policies will be appropriately communicated to the users.

4. The language used shall be English.

5. The site shall be very easy to use, intuitive (no prior training required).

6. Site shall be attractive and media-rich in appearance.

7. Security of the site shall require users to register and log in (students to decide what functions require registration and login).

8. Effort shall be made to make the site easily searchable by major search.

# High-level system architecture

1. SQL

2. HTML

3. Java

# Team

Scrum Master - Samuel Parker

Product Owner - Joshua Vayntrub

Front-End Lead - Abdullah Shafique

Back-End Lead - Donny Stephens II

# Check List

a) Team decided on basic means of communications

DONE

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

ON TRACK

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

DONE

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

DONE

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

DONE