*CEN 4010: Principles of Software Engineering*

Team 4: Milestone 1

Team Project Proposal and Description

Group Number: 4; Team Name: “Cheesy“

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Revision Table:

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| --- | --- |
| Date: | Revision: |
| 6/15/2020 | Added Revision Table, Executive Summary, Competitive Analysis, Data Definitions, Overview & Scenarios, High Level functions, Non-Functional requirements, High Level System Architecture, Team Roles, added documentation onto GitHub |
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Executive Summary

For our project, we chose to create a communication platform that allows people who are stuck in quarantine to interact and share ideas. Due to the COVID-19 outbreak, students at FAU have been unable to communicate in a healthy sociable manner. To fix this issue, our team has come up with a website that will allow students at Florida Atlantic to create, comment and like posts made by other students. This project, named “OwlTalk”, is useful because socialization at FAU has been almost entirely erased since quarantine began. College is a critical time to socialize and create new connections. We believe there is no available platform where FAU students can freely socialize in an unmoderated environment. It will be a site of the students, by the students and for the students. The setup will be a reddit style posting board where verified users can make new posts and like/comment on old posts.

Competitive Analysis

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| --- | --- | --- |
| Product | Similar Features | Why ours is superior |
| FAU Facebook Group | Allows students to post and communicate in a popular social media, and is relatively unmoderated | Ours is solely dedicated to the communication of students, (rather than being just a page of a major social media platform). The Facebook group is difficult to get to, fairly formal, and not widely used. Ours will better facilitate socialization through the idea of an unmoderated |
| Canvas | Simple, aesthetically pleasing site for teachers to communicate with students and occasionally used for student to student communication | Canvas does is too formal of a space to allow students to really create friendships and get to know each other. Our site will be orientated to being informal and fun |
| Discord Groups | Many students will create discord groups to interact between clubs, classes and friend groups but are hard for outsiders to access | Our site will be welcoming to everyone if and only if they have a verified FAU email address, allowing all students to be welcome to the site |

Data Definition

* Moderators- the users who have privileges to remove posts or ban users
* Post Block- each post will be in a post block which will contain data on the posts time of post, content, likes, posting user and comments
* Main Page - the main discussion page that holds all the most recent/popular post blocks
* User Page- the page of an individual user that shows all their posts and public information

Overview, scenarios and use cases

The application will begin with a login window. Depending on who logs in, a user or admin, the application performs different functions. Users can also choose to make a new account or recover password.

A user logs in with a username and password and is redirected towards the main page. The main page displays the main discussion blocks that holds the most recent/popular posts. Above sits a navigation bar with different subjects to browse through. From the main page the user can post, comment, like, and vote on blocks. Users may select a block to display the main thread and view it more in detail.

The user can select profile to view user page and edit information. On the user page the system displays all their posts and public information. The information consists of name, DOB, grad year, major, interests, hobbies, photos, and email. The user can choose to edit their existing blocks or delete blocks.

An admin logs in with a username and password and is redirected towards the main page. The admin has the same functionality as a user but can delete any block and ban users.

Use Cases:

1. Admin Logs in
   * 1. Admin logs into application
     2. Admin moderates discussions
2. User Logs in
   * 1. User logs into application
     2. User can enter username and password or create a new account
     3. System redirects to main discussion

Variation #1. Invalid Login

* + 1. Start at step A. or B.
    2. The application determines there is no account associated with user information
    3. The application signals the user that the login has failed

1. User Browses Main Discussion
   * 1. User browses main page
     2. System displays most recent/popular discussion blocks
2. User Views Block
   * 1. User selects a block
     2. System updates window and redirects to main thread
3. User Post Block
   * 1. User selects post new block
     2. System waits for user to fill out information
     3. System updates discussion board with new block
4. User Edits Block
   * 1. User selects edit block
     2. System waits for user changes
     3. System updates discussion board with revised block

Variation #2. Admin Edits Block

* + 1. Admin selects edit block
    2. System waits for admin
    3. System updates discussion board with revised block

1. User Views Profile
   * 1. User selects view profile
     2. System updates window and redirects to user profile
     3. User can view their posts and edit personal information (name, DOB, grad year, major, interests, hobbies, and email)
2. Admin Deletes Block
   * 1. Admin selects delete block
     2. System updates discussion board and removes block
3. Admin Bans User
   * 1. Admin selects a user
     2. Admin selects ban user
     3. System gathers user information and disables account
     4. System removes all blocks associated with account

Initial list of high-level functional requirements

* Create Account: First-time users will be able to create an account if they have a valid FAU email. 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.
* Create Post: Users will be able to create posts others will be able to both reply and post images to in response.

List of non-functional requirements

1. The website should be functional on at least two of the latest versions of major web browsers such as: Mozilla Firefox, Google Chrome, etc.

2. The only language planned for the site to be displayed in is English.

2. Data will be stored in the database on our server.

3. All privacy policies will be communicated to the users upon their registration so that they are aware their privacy shall be protected.

4. The interface of the site should be intuitive and easy to use by regular people; no prior training should be required to use properly.

6. Security of the site will require users to register and log in at launch.

High-level System Architecture

* HTML
* C++
* Java

Team Roles

Scrum Master – Anthony Pancione

Product Owner – Nicholas Child

Front-End Lead – Tyler Do

Back-End Lead – Jonah Livingston

