

1 Introduction

1.1 Highlights

- What was the plan for this iteration?
 - We wanted to do a Proof of Concept, showing a quick demo of what our app is going to look like and what the main functionalities are going to be.
- Highlight what the team accomplished.
 - Set up basic web-app interface (sign-in page, posting board interface)
 - Created initial posting board structure with basic post and reply functionality
 - Explored and finalized back-end choices (PERN, SQL database, Node and express based posting board)

1.2 Changes

- Summarize any major changes since the proposal.
 - We haven't made any significant changes to the goals of our project. We still are intending to create a posting board interface that communicates with a backend server so that multiple users can connect and communicate with each other.
- Include each change's date, motivation, description, and implications.
 - N/A
- If there were none, note that there were no changes.
 - We didn't make any significant changes.

2 Customer-Iteration Goals

- Describe the product backlog of this iteration.
 - We are deciding on best implementation practices for the backend and continuing to refine the frontend experience for users. We plan on using the PERN framework for backend development. We also want to create a login functionality that allows Davidson students to use our website.
- Describe the customer's desired overall experience.
 - Customers want to have a simple login experience and easy-to-navigate UI/UX. They also want to have a bug-free experience when using to app.
- Describe the sprint backlog of this iteration.
 - Our backlog included the implementation of basic chat functionality and simple UI.
- Explain why you have selected the work items in the sprint backlog for this sprint (or iteration).
 - We believe that these initial sprint backlog functionalities are the key elements of our website that users will interact with consistently.

2.1 Use Cases

- Write a use case for each main user goal for a primary or secondary customer.
- Show each use case's title, user goal, and full basic flow. Choose meaningful titles.
- Each use case should have at least one specific alternative flow and one bounded alternative flow.

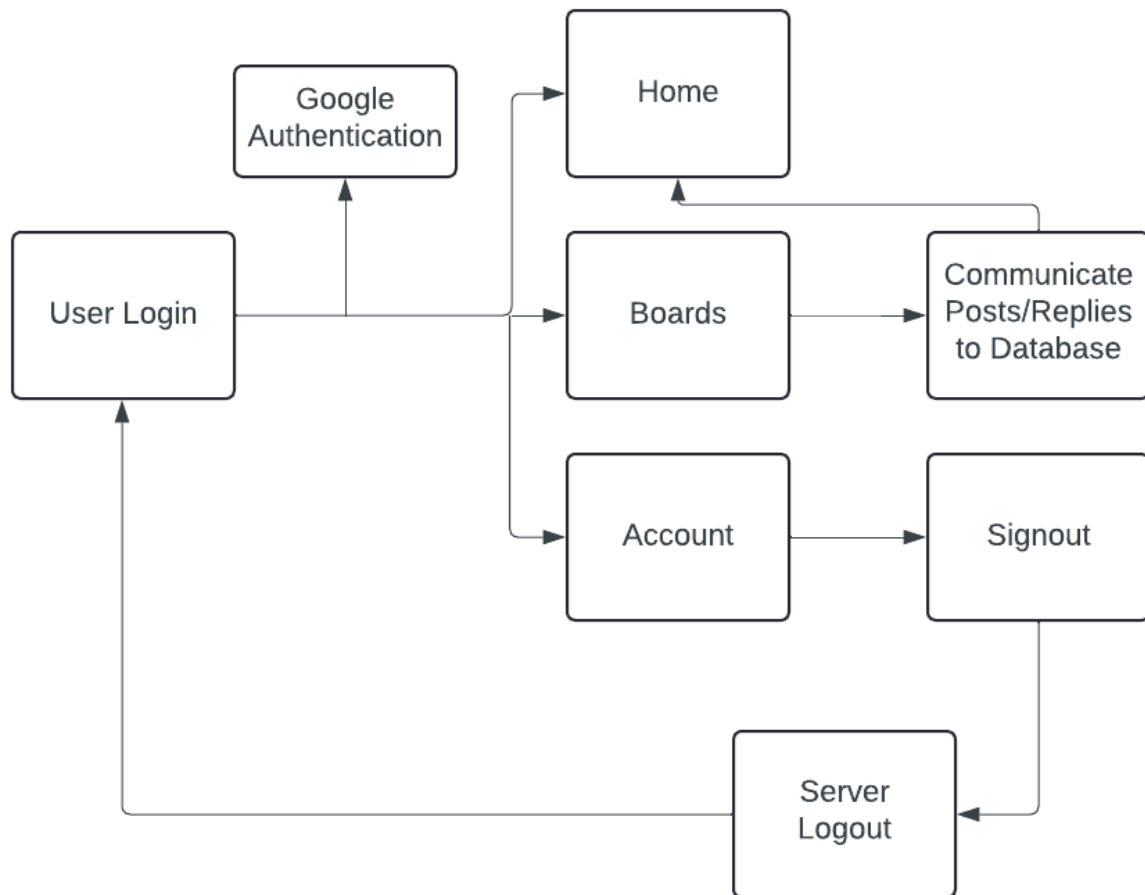
Name: Posting Message	
Goal: Send a message on a chat board that other users can see.	
Actors: Users, posting board	
Basic Flow: <ol style="list-style-type: none">1) The user opens browser2) The user visits website {Connect to Server}3) The user enters username and password to enter chat boards {Verify Login Information}4) The user types a message and clicks the "post" button. {Send Message to Backend}5) The system stores and displays the sent message on all user devices	Alternative Flow(s): Specific Alternative Flow(s): <ul style="list-style-type: none">• At {Verify Login Information}, if user enters incorrect login information, prompt the user to re-enter username and password, resume the basic flow at {Connect to Server} Bound Alternative Flow(s): <ul style="list-style-type: none">• At any point between {Connect to Server} and {Send Message to Backend}, if the network connectivity is lost, attempt to reconnect the user, resume the basic flow at {Connect to Server}

Name: Reply to Post	
Goal: Send a reply to a specific message on a chat board.	
Actors: User Replying, Original Post User, Posting Board	
Basic Flow: <ol style="list-style-type: none">1) The user opens browser2) The user visits website {Connect to Server}3) The user enters username and password to enter chat boards {Verify Login Information}4) The user clicks the "reply" button underneath a post5) The user types a message and clicks the "post" button. {Send Message to Backend}6) The system stores and displays the sent message on all user devices, nested in the original post	Alternative Flow(s): Specific Alternative Flow(s): <ul style="list-style-type: none">• At {Verify Login Information}, if user enters incorrect login information, prompt the user to re-enter username and password, resume the basic flow at {Connect to Server} Bound Alternative Flow(s): <ul style="list-style-type: none">• At any point between {Connect to Server} and {Send Message to Backend}, if the network connectivity is lost, attempt to reconnect the user, resume the basic flow at {Connect to Server}

3 System Description

The diagram and descriptions should be more precise and detailed.

- Draw a block diagram to show how the proposed system will interact with external services, databases, etc. Clearly mark the boundaries of the system.



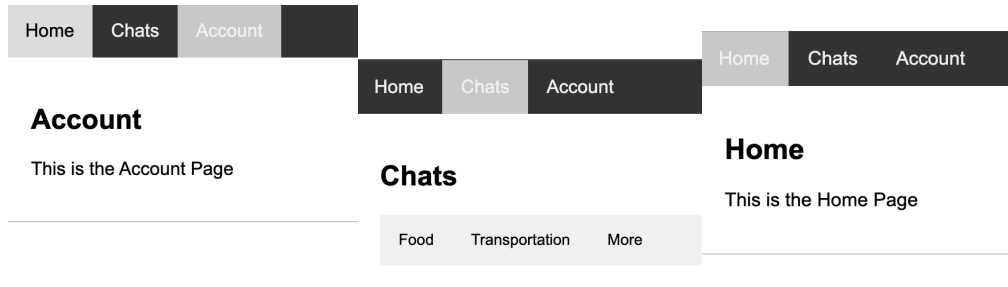
- What are the main elements of the proposed system?
 - User Login Authentication
 - Database Communication when postings are made

4 Current Status

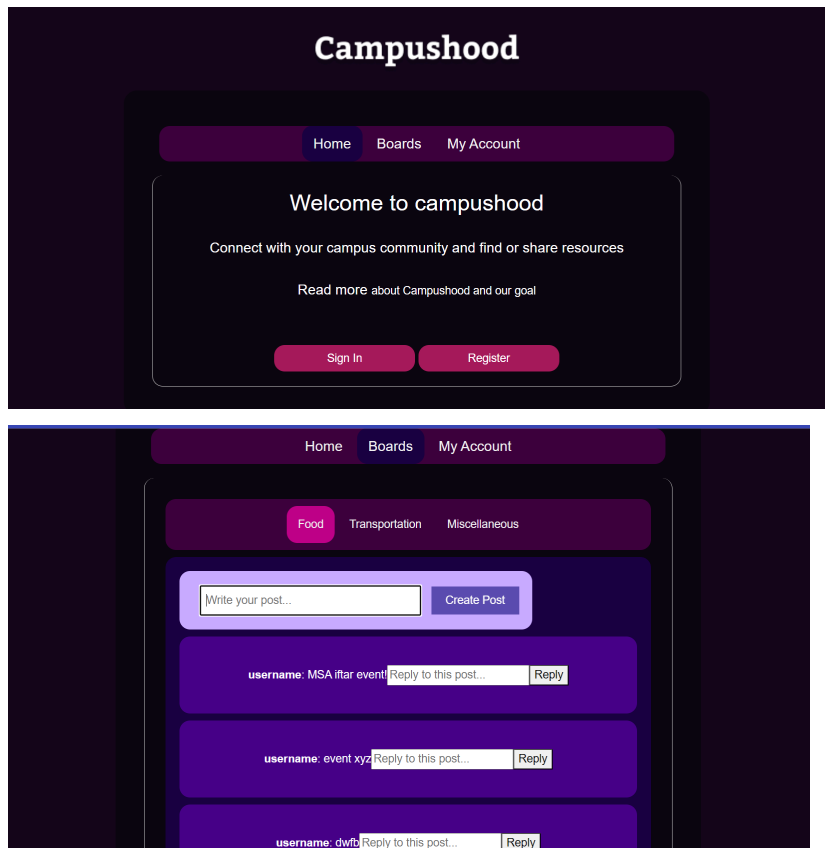
Summarize the current implementation status of your system.

4.1 Screenshots

Add the screenshot(s) of the system's working part(s). Explain the screenshot, i.e., explain (1) what you are trying to show in the screenshot, (2) which part in the system description diagram the part belongs to, (3) what is the behavior of the system, and (4) why this system is important.



These first images are the different panels within the sites We are trying to show what the different pages look like within our site. This belongs to our front-end where users will view others' posts. This is important because it visually brings functionality to the users.



Here, we can view what our chat will roughly look like in our main UI. Attached above are two pages within our Campushood Site along with a functional post-reply system.

4.2 Tests

- List the tests you performed for this iteration's implemented parts.
 - As viewed in the screenshots above, we wanted to enable users to interact, post, and reply with the different chat boards in our website. Our tests included, making sure user post appear after users submit them, user posts appear and are replyable, and we began working on implementing server to store the posts. Currently there is a local server that stores the posts, so that users connected to the same local server can send and receive messages. We are working on implementing a server that external users can connect to as well.
- From the acceptance tests in the proposal, explain your plan to test them technically. In other words, how would you automatically test your acceptance tests? What are the inputs to the tests and outputs from the tests? How would you determine whether the test was passed or failed?
 - The first acceptance test from our proposal ensures that user posts are visible to anyone connected to the website. Our website currently has this functionality, and we are continuing to work on making the website accessible across multiple devices.

5 Project Management

Continue to maintain the Change Log. Add any new changes to the project, tracking the date and description of each change. Use the table below:

Date	Description
Date the change was made	A summary about the change made to the system
03/09/2024	Finalized basic UI design elements- Html, css, JS setup, color scheme, logo, main interface design in Figma
03/11/2024	Created initial posting function - html/js
03/13/2024	Improved posting and added reply functionality
03/16/2024	Integrated UI with post/reply boards
03/18/2024	Google Auth implementation
03/20/2024	Start MongoDB setup for posting

6 Review and Retrospective

- What went well?
 - When in meetings, we worked really well at hashing ideas and problem-solving. There were good ideas mentioned that flowed seamlessly with our intentions of the project. Everyone was willing to take up tasks and learn new things necessary for the tasks they accepted.
 - We all have contributed pretty equally in developing the product.
- What didn't go well?
 - We had a hard time committing and scheduling to meetings. Our communication wasn't what it should be this status report round and we hope to improve it in the future.
 - There were times when group members wouldn't see messages for a long time after they were sent due to the nature of our diverse schedules. We have been forced to meet as a group in non-workday hours to accommodate the lack of availability and that has been tough to communicate and set up.
- For the goals that were not met, what were the issues?
 - We hoped to have further developed our Main UI. We have pages setup, but haven't devoted enough time to flesh it out more.
- How do you plan to overcome the issues?
 - In tangent with the poor meeting times, we hope to solidify our group meeting times in order to work on these Main UI goals.
- What do you plan to do differently in the next iteration?
 - We will schedule meeting times further out in advance so we can schedule around them. We will also work more independently to make the group meetings more impactful. We have also looked into dividing the group into two subgroups that will have the opportunity to meet on a more regular basis to get the frontend or the backend done.

7 Team Management

- What were the team roles for this iteration?
 - Product Owner: Awais
 - Scrum Master: Blake
 - Devs: All
- What did each team member contribute?
 - Awais: Researched current student UI and established design practices of apps for college students, and integrated the working post-reply systems into our Main UI setup. Huy and Blake: Created Chat board and navigation implementation for Awais to integrate.
 - Paul: Focused on backend and server setup so we can regulate our page through multiple devices instead of local storage.
- What were the challenges regarding team management, e.g., regular meeting, etc.?

- It was hard to get the team to meet on a consistent basis. Our regular meeting ran into issues when break hit, and commitment dropped due to timing conflicts.
- What are the plans to overcome the challenges?
 - We will plan further in advance for our meeting times and have more established goals to complete for the week.
- If you were the third party who knows very well about your team, what suggestions would you give to your team?
 - Create a more solid plan for each week and stay strict to it.

8 Goals for the Next Iteration

• Product log.

- Integrate Account info into site's My Account page
- Implement server-based posting database (mongoDB and Node.js)
- Polish post-reply functionality to include established communication design practices (filter, show/hide, delete, edit)

• Sprint log

- Finish user-info set-up based on Google account
- Add collapse/expand functionality to posts and replies
- Add delete, edit, share functionality to posts

- Other than the issues discussed in Section 6, i.e., Review and Retrospective, what potential challenges do you see in the next iteration?
 - Due to members' limited experience in server-based database communication, we will have to learn new technologies (PERN) which can be challenging during the semester
- Briefly explain how your team would overcome each of the mentioned challenges.
 - We will narrow down the technologies by first interviewing more customers and assessing their specific app needs, and only the functionalities we need for our app will be learned, and they will be divided among developers along with a session for sharing progress and asking for help