Group 16 Milestone 4

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The Projects Vision

UMass Lost and Found

Problem: It is common for UMass students to misplace important belongings like UCards, water bottles, and academic utensils. There currently doesn't exist an organized place for students to communicate what items they may have lost or found.

Solution: UMass Lost and Found intends to be the first and best place for students to go to communicate with each other items they are looking for or have found. Our web app is organized and easy to use and provides users with all the tools and information they need to find lost items or share items they found.

Key Features:

- Home page containing all found item posts
- Posting features such as images and GPS location to help users locate items
- Sorting, filtering, and searching options to narrow down posts
- Messaging system for communication between posters and users

realraft/UMass-Lost-and-Found

Milestone #4 Milestone

The Builders

Team Member List:

Owen Raftery
Role(s): Project-Manager
Role(s) Description: Will be leading the team during meetings and give instructions on what to code.
Issues to work on: Research on if we can use UMass email api, in our platform
Nathan Dennis
Role(s): Notetaker, Front-end developer
Role(s) Description: Will be taking down notes, and recording what my teammates do in regards to the website. Will also offer suggestions and implement them when necessary. Will mainly work on the front-end.
Issues to work on: General front end. Skeleton HTML and CSS.
Jacob Taylor
Role(s): Time-keeper
Role(s) Description: Will organize meetings, keep track of what's missing, and come up with deadlines to the issues.
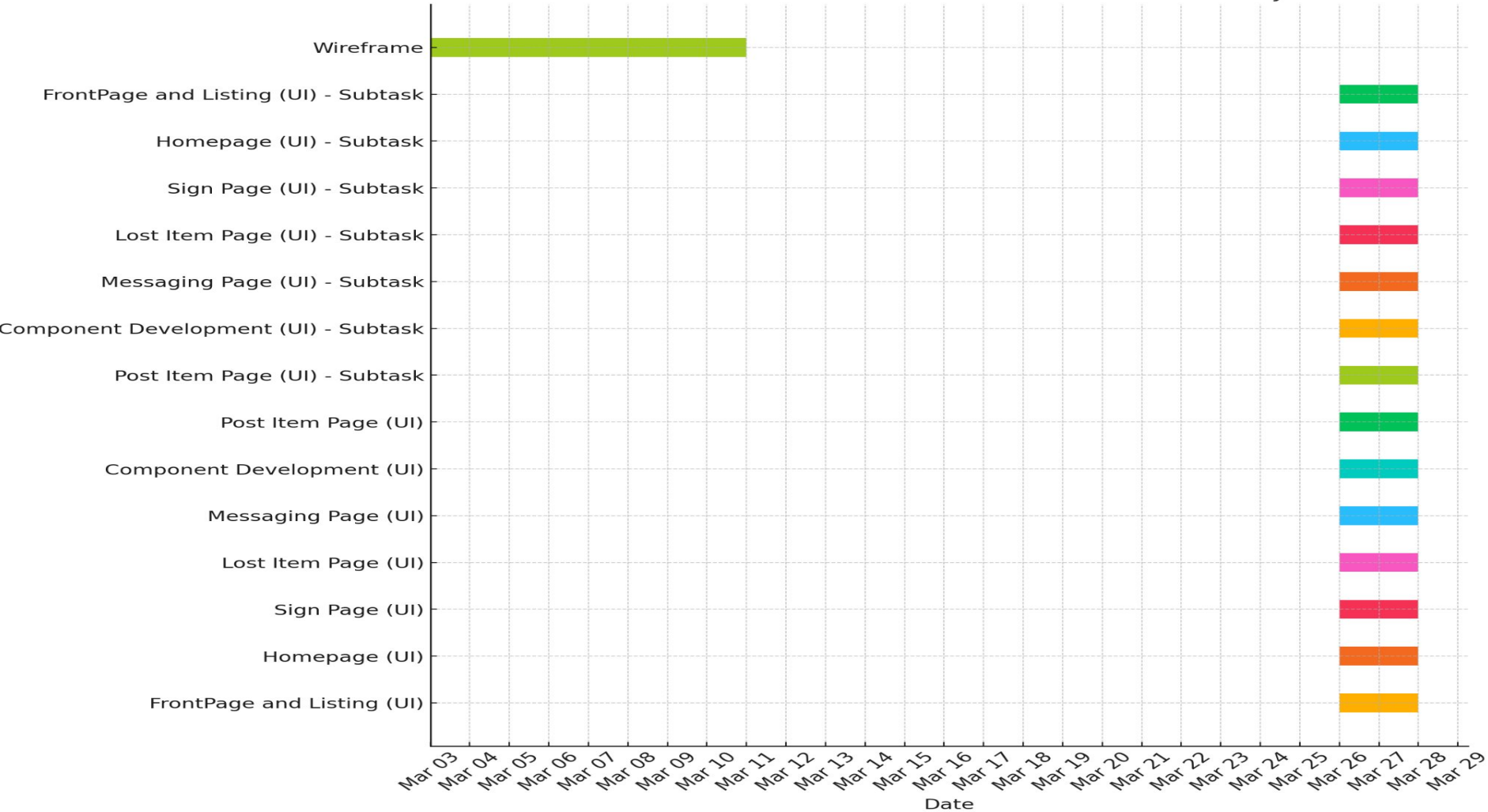Issues to work on: Research databases and ways we can host our site
Roberto Rubio
Role(s): Communicator
Role(s) Description: Will make sure the Backend and Frontend are synchronized and will code for both.
Issues to work on: research about the GPS API (costs, keys, and how to implement).

UI-Focused Gantt Chart: Mass Lost and Found Project

Task	Timeline
Wireframe	Mar 03 – Mar 10
FrontPage and Listing (UI) - Subtask	Mar 26 – Mar 27
Homepage (UI) - Subtask	Mar 26 – Mar 27
Sign Page (UI) - Subtask	Mar 26 – Mar 27
Lost Item Page (UI) - Subtask	Mar 26 – Mar 27
Messaging Page (UI) - Subtask	Mar 26 – Mar 27
Component Development (UI) - Subtask	Mar 26 – Mar 27
Post Item Page (UI) - Subtask	Mar 26 – Mar 27
Post Item Page (UI)	Mar 26 – Mar 27
Component Development (UI)	Mar 26 – Mar 27
Messaging Page (UI)	Mar 26 – Mar 27
Lost Item Page (UI)	Mar 26 – Mar 27
Sign Page (UI)	Mar 26 – Mar 27
Homepage (UI)	Mar 26 – Mar 27
FrontPage and Listing (UI)	Mar 26 – Mar 27

Date

Owen Raftery 1

Assigned Work Summary: Worked on Home page signed out and the Lost item post page. Created foundational html and css for the above pages.
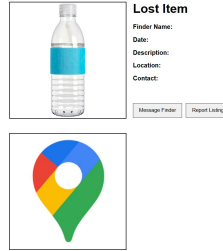
https://github.com/realraft/UMass-Lost-and-Found/issues/18

UI DESIGN · Issue #2 · realraft/UMass-Lost-and-Found

Screenshot/Demonstration:

Code/UI Explanation:

The code on the right is for the post item page. has div structure that allows CSS to effectively move these elements around depending on the size of the device.


```html
<body>
    <div class="photo-container">
        <img src="bottle.png" alt="Lost Item" style="width: 100%;
height: 100%; object-fit: cover;">
    </div>

    <div class="header-and-details">
        <div class="heading">
            Lost Item
        </div>

        <div class="details">
            <div class="detail-section">
                <label>Finder Name:</label>
                <span id="finderName"></span>
            </div>
            <div class="detail-section">
                <label>Date:</label>
                <span id="date"></span>
            </div>
            <div class="detail-section">
                <label>Description:</label>
                <span id="description"></span>
            </div>
            <div class="detail-section">
                <label>Location:</label>
                <span id="location"></span>
            </div>
            <div class="detail-section">
                <label>Contact:</label>
                <span id="contact"></span>
            </div>
        </div>
    </div>

    <div class="button-container">
        <button class="button">Message Finder</button>
        <button class="button">Report Listing</button>
    </div>

    <div class="map-container">
        <img src="map.png" alt="Map" style="width: 100%; height:
100%; object-fit: cover;">
    </div>
</body>
```

Owen Raftery 2

Challenges and Insights: Ordering items on a page was difficult

Future Improvements and Next Steps: Make the web pages style more consistent and prettier, add functionality to buttons, fill elements on the page with javascript, add actual sign in functionality, add api for google map in the post.

Jacob Taylor 1

Assigned Work Summary: Worked on the post item page, which included the header, forms for user input, and ensuring the page changed based off the user dimensions.

Screenshot/Demonstration:

UMass Lost and Found Search... 🔍 POST

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link rel="stylesheet" type="text/css" href="post_item_page.css" />
</head>
<body>
    <header class="header-container">
        <div class="name-container">
            <h1 id="header-text">UMass Lost and Found</h1>
        </div>
        <div class="search-container">
            <form class="search-bar" action="/search" method="get">
                <input
                    type="search"
                    name="q"
                    placeholder="Search..."
                    aria-label="Search"
                />
                <button type="submit">🔍</button>
            </form>
        </div>
        <div class="post-button-container">
            <button class="post-button">POST</button>
        </div>
    </header>
```
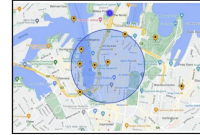
This code on the left is for the header section, which includes the post button, search button and the title of the website. I split up the three components into three separate divs to target the css. I also used flexbox for a more intuitive design.

Jacob Taylor 2

Challenges and Insights: The most difficult challenge was positioning html elements onto the page, in a way for them to be tagged with css. Using flexbox was difficult at first, but looking for the notes again were very helpful

Future Improvements and Next Steps: I would like to add javascript functionality, so we can make a dynamic website. I as well would like to create a better looking website with better css elements.

Roberto Rufe 1

Assigned Work Summary: Code the html and css file for the Messaging Page of the website. Here users can see their messages to others for each post, and also send new messages in a conversation style pattern. The design is simply because interacting to other users has to be friendly and familiar, based on other chats implementations in social media and other applications.

Umass Lost and Found

Post Name

Post Name

I found your lost bottle

Thanks for finding my lost bottle

Where can I see you to give it back

Message: [_____] send

```css
h1 {
    color: white;
    background-color: red;
    font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
    text-align: center;
}
.container {
    display: flex
}
.posts-sidebar {
    width: 15em;
    background-color: white;
    color: black;
    height: 100vh;

    display: flex;
    flex-direction: column;
    gap: 0.25em;
}
.message-container {
    flex: 1
}
.messages-content {
    color: black;
    background-color: rgb(248, 248, 221);
    flex-direction: column;
    height: 85vh;
    overflow-y: auto;
    background-image: url("clouds.jpg");
}
.myMessage {
    color: black;
    background-color: lightgreen;
    text-align: right;
    width: 50%;
    margin-left: auto;
}
.otherMessage {
    color: black;
    background-color: rgb(31, 180, 230);
    width: 50%;
}
.PostNameElement {
    color: black;
    text-align: center;
    background-color: rgb(250, 213, 213);
}
```

Roberto Rubio 2

Screenshot/Demonstration: This page of the website is where users get to discuss with each other about lost items and reach a solution for delivering and retrieving the lost item. There are many elements in this page; on the left users can choose between chats according to the name of the post, on the right users can see the messages they have sent and received, and at the bottom they can send a new message.

Code/UI Explanation: The html code is very simply, there aren't many inputs in this page because its only for changing through conversations and sending messages, however the css was tricky because some divs wouldn't move to where I wanted to put them. I separated all elements into many containers, and used display: flex because of its attributes to organize by columns and changing sizes.

Roberto Rufe 3

Challenges and Insights: It was very challenging to get the right css combinations of characteristics for each division to look nice and for the entire page to look balanced and organized.

Future Improvements and Next Steps: Remove some the example messages and posts, so that this is all handled through JavaScript. Also to make sure the transition between this page and the others is smooth and doesn't break the aesthetic of the website. Finally, develop the css further so that some divisions stay in place while scrolling through another one.
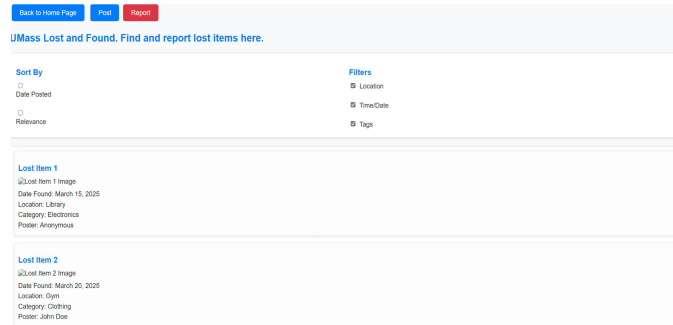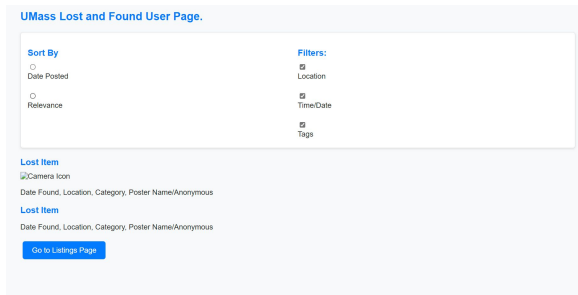
Nathan Dennis 1

Assigned Work Summary: Added the basic user page where it will be intended for items that the user has seen or retrieved. Added listings page for the users to see a listing of all lost items.

https://github.com/realraft/UMass-Lost-and-Found/issues/2?issue=realraft%7CUMass-Lost-and-Found%7C15

https://github.com/realraft/UMass-Lost-and-Found/issues/2?issue=realraft%7CUMass-Lost-and-Found%7C12

Screenshot/Demonstration:

Nathan Dennis 2

Code/UI Explanation: A simple website layout, with nothing too complex. User page and listings page link to each other. Thi[s] snipper of code " `<div class="listing-container" style="height: 400px; overflow-y: scroll; border: 1px solid #ccc; padding: 10px;">` allows for independent scrolling, which will by dynamically updated using either JavaScript or the Back End, either b[y] me or a teammate that this will be assigned to. Otherwise, functionality is limited, as by HTML and CSS, to only serve as a li[nk] between pages due to no click events being able to be implemented within this Milestone.

```html
<div class="button-container">
    <a href="frontpage.html">
        <button>Back to Home Page</button>
    </a>
    <button>Post</button>
    <button class="report-button">Report</button>
</div>

    <!-- Summary Section -->
    <div class="summary">
        <h2>UMass Lost and Found. Find and report lost items here.</h2>
    </div>

    <!-- Filters Section -->
    <div class="sort-filter">
        <div class="sort-by">
            <h3>Sort By</h3>
            <input type="radio" id="date-posted" name="sort" value="date-posted">
            <label for="date-posted">Date Posted</label><br>
            <input type="radio" id="relevance" name="sort" value="relevance">
            <label for="relevance">Relevance</label>
        </div>
        <div class="filters">
            <h3>Filters</h3>
            <label>
                <input type="checkbox" name="filter" value="location" checked>
                Location
            </label><br>
            <label>
                <input type="checkbox" name="filter" value="time-date" checked>
                Time/Date
            </label><br>
            <label>
                <input type="checkbox" name="filter" value="tags" checked>
                Tags
            </label>
        </div>
    </div>

    <!-- Listings Section -->
    <div class="listing-container" style="height: 400px; overflow-y: scroll; border: 1px solid #ccc; padding: 10px;">
        <!-- Listing 1 -->
        <div class="listing" style="padding: 10px; border-bottom: 1px solid #ddd;">
            <h3>Lost Item 1</h3>
            <img src="placeholder1.png" alt="Lost Item 1 Image">
            <p>Date Found: March 15, 2025</p>
            <p>Location: Library</p>
            <p>Category: Electronics</p>
```

This is a small snippet of the listings page, showing all of the main parts[,]

excluding the other 4 dummy posts. User page is coded similarly due to[...]

sharing the same basic design.

Nathan Dennis 3

Challenges and Insights: The only difficult part about this would be using and trying to learn to use Github repositories and connecting these to VS Code. Will improve my capabilities and skills to utilize this skill.

Future Improvements and Next Steps: Only one known step for the next milestone, which would be to add a click event for the report button. Will also add click events for the dummy posts to connect them to a profile page as well. Will change the Listings Page to be the home page, and the User Page to be a separate page. Otherwise, there aren't any issues that are apparent, other than future implementation of using a page for logging out.