



[25-26_SEM1_CS341_A] - Web Technologies

Sprint 1- Team Project

Team members:

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Sprint 1 Deliverables

The Eterna Web App serves as a dynamic platform that enables users to create, store, and indulge in their cherished digital memories, all enriched with thoughtful descriptions. Below is a detailed overview of some of the major pages on our platform, along with their distinct functionalities.

- **Home Page:** The welcoming landing page introduces users to the captivating concept of the Time Capsule. It warmly encourages visitors to safeguard their precious memories and invites them to embark on their journey by signing up.
- **About Page:** On this informative page, users can explore the intricacies of the website. It elucidates how the platform operates, guiding them through its engaging features and purpose.
- **Dashboard Page:** This comprehensive page showcases a curated list of all the capsules that users have crafted, available only to those with an account. It features a prominent plus button, inviting users to create a new capsule, which seamlessly directs them to the Create Capsule page.
- **Create Capsule Page:** This interactive form empowers users to bring their memories to life by entering a title, a rich description, and the date. Users can also tag recipients, who must have an account on the website, and upload media to further enrich their capsules.
- **Help Page:** This page aims to provide robust support, helping users navigate the website with ease. It provides a clear outline of the steps required to access various functionalities, ensuring a seamless user experience.
- **Sign-up Page:** Here, users can conveniently enter their personal details, including their first name, last name, and a secure password, initiating their journey into memory creation.
- **Login Page:** This essential page provides users who have previously signed up the opportunity to log in and unlock the full potential of the website, inviting them back to their stored memories after a prolonged absence.
- **View Capsule Page:** This visually engaging page presents the details of a specific capsule, showcasing images, heartfelt messages, and the significant date related to the memories captured.

- **Edit Capsule Page:** This feature grants the creator the flexibility to update and enhance capsule information, allowing for the addition of more images or a more elaborate description, ensuring that their memories can evolve over time.
- **Admin Page:** Exclusively designed for site administrators, this page enables effective management of users, the removal of inappropriate content, and a comprehensive view of all capsules, contributing to a safe and enriching environment for all users.

We have currently created 6 pages: **Home, Mycapsule, Sign Up, About ,Our Team and Sign In.** The remaining pages will be implemented later during the project development.

2) Main Tables in database (Entities):

- **User:** This table is designed to store user account information, including fields for user ID, username, password (encrypted), email, and account creation date. It ensures users can securely log in and manage their profiles.
- **Capsule:** This table holds detailed capsule information, including fields for capsule ID, title, description, creation date, visibility settings (public/private), and associated user ID. It serves as the core data structure for each memory capsule created.
- **Media_files:** This entity is responsible for storing uploaded files in various formats. Each record contains a media file ID, file type (image, video, audio), file path or URL, and associated capsule ID to link it to the corresponding capsule.
- **Messages:** This table stores written messages or notes that users can place inside each capsule, with fields for message ID, content, and timestamp, along with foreign keys linking back to capsule_id and user_id to ensure each message is associated correctly.
- **Comment:** The comment table allows users or recipients to leave feedback on the capsules they are shared with. It includes comment ID, comment text, timestamp, user ID (of the commenter), and capsule ID to associate the comment with the correct capsule.

- **Backup:** This table captures the original versions of the created capsules, including fields like backup ID, capsule ID, backup date, and user ID, facilitating recovery in case any capsules are accidentally deleted.

Description of Completed Functionality:

Eterna is an innovative platform designed to empower individuals, families, and communities to digitally preserve their memories, milestones, and special moments in a meaningful way. Unlike traditional picture storage, Eterna enables users to create rich and interactive memory capsules that can include pictures, videos, audio recordings, and text narratives. As of the end of Sprint 1, our team has collaboratively discussed and finalized the structural design and core functionalities of our website. In terms of development, we have successfully completed a significant portion of the front-end interface and delineated the main tables required for our database to support the application's backend.

User Guide for Currently Implemented Functionality:

Currently, users with access to our codebase can interact with several key pages.

-> They can view the “Sign Up” page to create new accounts, the “Sign In” page to access existing accounts, the “Home Page”, where users can learn about Eterna, the “MyCapsule” page to manage their personal memory capsules, and the “About Page” for more information about the platform’s mission and values. Each page is designed to be intuitive, guiding users through the necessary steps to maximize their experience.

Team Member Contributions Overview:

Ousmane: Spearheaded the implementation of the website’s front-end pages. His efforts ensured that the user interface is both functional and visually appealing.

Kevin and Ramatou: Focused on the design aspects of the website, actively participating in identifying essential pages and defining the core functionalities that the platform will offer, ensuring a user-centered design approach.

Deborah: Played a crucial role in designing the database tables, outlining the necessary schema for effective data storage. She also established a collaborative GitHub repository for the project, facilitating version control and teamwork.

GitHub Milestone/Commit Link:

[GitHub Repository:: [deborahmaxime/Web_Tech_Project_Eterna: A Group Project](#)]

This link contains all the code, tests, and documentation relevant to our project.

Retrospective Overview:

Overall, the development process for the pages went smoothly, as we had a clear vision of their intended appearance and functionality. However, we faced challenges in implementing all the planned JavaScript functions due to time constraints, which limited some interactive features. In the next sprint, we aim to finalize the front-end development by integrating validation scripts for user input and commence backend development to establish a fully functional application. Adjustments to our project management approach will be made to improve efficiency and meet our objectives.