



Application - ShareABite

Phase 4 – Status / Progress

Group 1 – OOP3

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Description of Section:

Defines the different sections that are expected deliverables from the Status / Progress Report document.

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Design and Data Specification Document - ShareABite

Document Details

Document Information

Introduction:

Provide details like the document owner, issue date, last saved date, and file name.

Document Owners:

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Issue Date:

2024-07-10

Last Saved Date:

2024-07-10

File Name:

“Phase 4 – Status_Progression Report.docx”

Document History

Introduction:

Track changes made to the document, including version number, date, and a brief description of changes.

Version Number	Date	Description
1	2024-07-10	Local Document is created, blank until workload has been discussed
2	2024-07-24	Group Discussion to discuss what criteria is expected of the new document
3	2024-06-25	Work is available for all members to claim their sections/tasks
4	2024-06-27	Document is downloaded for formatting and submission
5	2024-06-27	Final Revisions are made for submission.

Document Approvals

Introduction:

This section confirms team members and stakeholders have reviewed and approved the Design and Data Specifications Report.

Project Plan Information

“Phase 1 - Project Plan V2.docx”

Started: May 31st, 2024

Completed with Final Team Revisions: **June 1st, 2024**

“Phase 2 - Requirements Document.docx”

Started: June 13th, 2024

Completed with Final Team Revisions: **June 15, 2024**

“Phase 3 – Data and Design Specifications Document.docx”

Started: June 25th, 2024

Completed with Final Team Revisions: **July 7th, 2024**

“Phase 4 – Status / Progress Report.docx”

Started: July 10, 2024

Completed with Final Revisions: **Jul 27th, 2024**

Executive Summary

Brief overview of the project status

Details: Summarize the current status of the ShareABite project.

Over the course of our technical research for this project, our team thoroughly evaluated the expected functionalities from the stakeholders and developed a clear understanding of the application's final capabilities. Understanding the core mission of ShareABite has been crucial in building each component of the web application, ensuring it remains intuitive and user-friendly from the ground up. By analyzing and comprehending ShareABite's main functions, we have been able to define and visualize (through wireframe examples) how the application is expected to operate. Currently, we are focused on building the HTML/PHP code, which will be integrated with the defined MongoDB backend, allowing us to progress further into the continuous development of the application.

Key achievements since the last report

Details: Highlight the major accomplishments since the last update.

One of the most significant milestones we have achieved is the visualization of the web application's UI/UX. This step, though simple, is fundamentally important. We have detailed and addressed various aspects, including the scope and functionality of the app, data security practices and management, and the backend architecture of the database and how each component (table/collection) interacts with the others.

This milestone has provided our team with the first visual representation of what the final web application will look like, giving us a clear mental picture of what we are building. By researching stakeholder expectations and developing our own understanding of the application's functionalities, we have gained a positive push towards realizing the final potential of the application. Our next significant milestone is to build the web pages and ensure they are functionally connected to the MongoDB backend, supporting user interactions and page requests.

Major risks and issues

Details: Outline any critical issues or risks that have been identified.

One critical issue that has been identified is how ShareABite's application will function under stress testing with a high volume of concurrent users and transactions. While we anticipated multiple users accessing the web application, we did not fully realize the potential challenges related to the application's overall expected usage and future scalability. Ensuring the application can handle server load efficiently is vital, as it impacts the overall functionality and user experience. Therefore, it is crucial to address the application's scalability to support many users and multiple transactions simultaneously, ensuring reliable performance under varying loads.

Project Overview

Brief description of the project

The ShareABite project is a school initiative focused on creating a meal-planning website using HTML, CSS, JavaScript, and MongoDB. The website will enable users to plan, share, and manage their meals effectively, offering a user-friendly platform for organizing meal schedules, sharing recipes, and collaborating on meal planning with others.

Purpose and significance of the project

The ShareABite project aims to address the growing need for organized meal-planning solutions by providing an intuitive and scalable web application. In a real-world context, this project is significant because it promotes healthier eating habits and fosters community engagement by making meal planning easier and more collaborative. By enabling users to share their meal plans and recipes, ShareABite encourages a community-driven approach to healthy eating and meal management. Additionally, the integration of MongoDB for backend data management ensures that the application can efficiently handle large volumes of data, making it a robust solution for users with diverse meal planning needs.

Current Progress

Description of Section:

Detail the work completed since the last report, compare it to the original plan, explain any deviations, and include visual aids.

Detailed description of work completed since the last report

Details: Describe the tasks that have been completed.

Following the last report, we focused especially on the database design and user interface. As this is a web application, understanding the visualization of the wireframe was crucial. This foundational work allows us to build the HTML, PHP, and CSS files necessary to create the web app. Seeing a rough idea of the final design for each webpage has been highly motivating, providing a clearer vision of our project's end goal.

Currently, our team prioritizes which web pages need to be developed first and determines the order of importance for each page, script, and other components. Each webpage is then assigned to the appropriate team member, with supporting members providing oversight and assistance as needed.

Comparison against the original project plan and milestones

Details: Compare the current progress with the initial plan.

Our team believes that our thorough research and analysis of stakeholder requirements, expectations, and feedback have positioned us well to achieve a tangible application that aligns with the initial project plan. While it has taken a bit longer to begin the internal coding of the web application, we view this positively. Taking extra time now to fully understand what we are building is preferable to struggling later to visualize and understand how each component functions and interacts with others.

Explanation of any deviations from the plan

Details: Provide details on any changes or deviations and their reasons.

Our team has not encountered any significant deviations from the plan, as we have adhered closely to the project's original purpose and scope. We have intentionally avoided scope creep to maintain our intended design and objectives. If anything, the continuous feedback and documentation have bolstered our confidence in the final form of our application.

Visual aids (charts, graphs, etc.) to show progress

Details: Include charts or graphs to represent the progress visually.

Our team's primary visual for progress tracking was to use a Trello Dashboard for each phase and assignment over the course of this project. Below are example screenshots taken from the macroscope (overview of the entire project timeline) and a microscope (individual phase checklist) view of the assignment(s) and project as a whole.

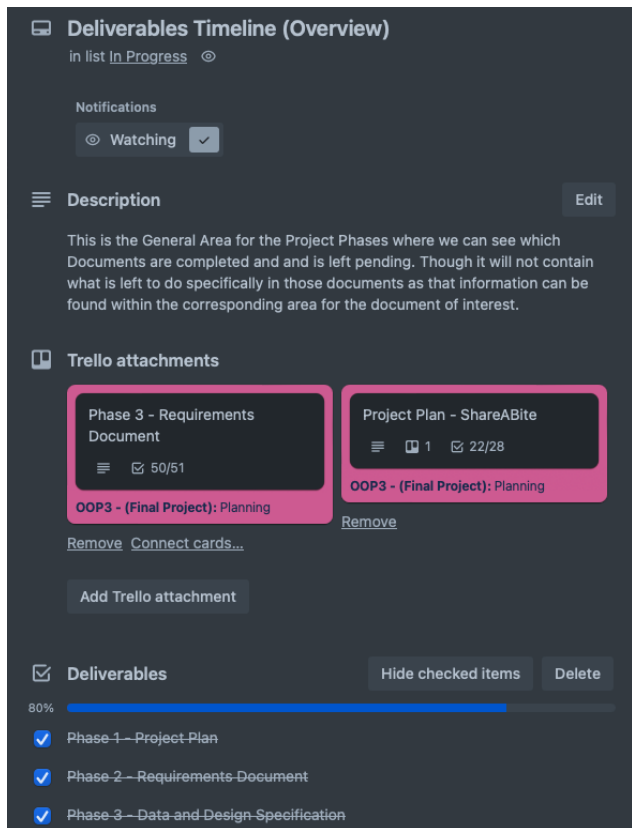


Figure 1 - Overview of full Project Timeline (Macro)

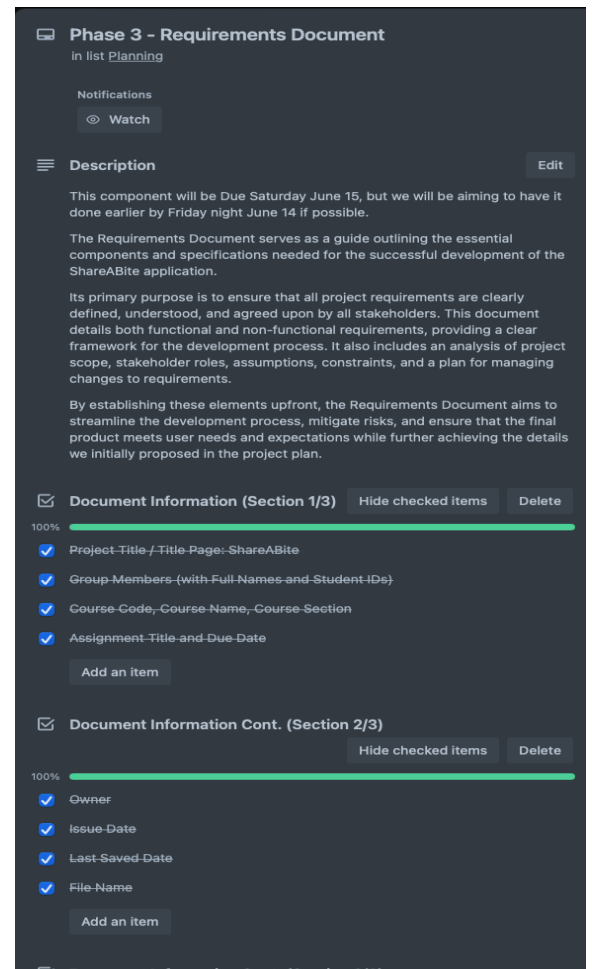


Figure 2 - Individualized view of Assignment (Micro)

Challenges and Issues

Description of Section:

List and describe the major challenges, their impact, and the strategies to overcome them.

List of major challenges faced since the last report

Challenges faced in this project primarily stemmed from a lack of general initiative to plan and communicate. Overall, there was a lack of communication within our group, and no clear indicator of progress had been made to help directly update the version history since we had prepared many documents on a cloud platform that only showed the updated document, not the areas that had been “working on” or finished.

As a result of these challenges, we have recognized the importance of effective communication and are taking proactive steps to improve it since we are entering a crucial timeframe where teamwork is mandatory for the application's success. All members are recognizing the situation and pushing for a successful development process and project delivery.

Impact of these challenges on the project timeline and deliverables

Due to the lack of communication regarding document writing, it became difficult to track when changes were made and what specific actions were taken, leading to numerous untracked updates. However, with our continuous work, the overall timeline and final product vision have remained consistent since the beginning. This consistency demonstrates our team's resilience and commitment to delivering a high-quality project despite the hurdles encountered.

Strategies implemented or planned to overcome these challenges

As a team, we have agreed to conduct more regular check-ins as a group and ensure that everyone contributes their part. By setting clear goals for each task, we aim to boost motivation as we progress through the project's next phases. Additionally, we have diligently followed our stakeholders' feedback, made necessary adjustments to address areas lacking, and made notes from recommendations that were put forward. These strategies have already started to create a more cohesive and motivated team, ensuring that we stay on track and meet our project goals.

Next Steps

Description of Section:

Describe the tasks planned for the next phase, provide an updated timeline, and allocate responsibilities among team members.

Tasks and activities planned for the next phase of the project

Moving forward, our team will focus on creating the foundational HTML, PHP, and core CSS required for our web application. We will plan and manage the workload of all web pages and other essential files, ensuring a steady workflow using a waterfall-esque design flow. This approach will help us maximize productivity and streamline our efforts to meet our estimated timelines.

Updated timeline and milestones

As originally discussed with our team and stakeholders, we will continue to progress according to our planned timeline. The next milestones include creating core landing pages, such as the user profile and recipe detail pages. These milestones will mark significant steps toward completing the application's essential features.

Allocation of responsibilities among team members

Throughout this project, we have gained valuable insights into each team member's preferences and strengths. We will factor these considerations into our task assignments, ensuring that each member is responsible for tasks that align with their strengths. Additionally, we will pair members with rotating support from other team members where it is reasonable, fostering collaboration and leveraging our collective skills to achieve our goals efficiently.

Appendix

Term	Definition
Wireframe	A visual guide that represents the skeletal framework of a website.
HTML	Hypertext Markup Language, used to create the structure of web pages.
PHP	A server scripting language used to make web pages interactive.
CSS	Cascading Style Sheets, used for describing the presentation of a document written in HTML.
MongoDB	A NoSQL database program that uses JSON-like documents with optional schemas.
UI/UX	User Interface/User Experience, the design and feel of how users interact with an application.
Backend	The server-side of a web application, dealing with databases and server logic.
Frontend	The client-side of a web application, dealing with the user interface and user experience.
Scope Creep	The process in which a project's requirements increase over its lifecycle.
Stress Testing	A type of performance testing to determine the system's stability under high usage.
Trello	A web-based project management application.
Milestone	A significant point or event in a project's development.
Waterfall	A sequential design process, used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through phases.