

Form Buster

Team Members:

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- Alex Merino (amerino2022@my.fit.edu)
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Faculty Advisor: Phillip Bernhard (pbernhar@fit.edu)

Client: Phillip Bernhard (pbernhar@fit.edu)

Progress of Current Milestone

Task	Completion	Daniel	Chris	Alex	Luka	To do
Website frontend	20%	0%	0%	100%	0%	Inbox, Dashboard, Registration, Sign In
Database/ hosting server	100%	0%	50%	50%	0%	None
Develop Data Structures	25%	0%	50%	0%	50%	Implementation
Requirement Document	100%	5%	15%	75%	5%	None
Design Document	100%	25%	0%	50%	25%	None
Test Plan	100%	5%	95%	0%	0%	None

Discussion of Accomplished Tasks:

- **Website frontend:** The frontend of the website will take most of the length of the project, but at the moment the landing page, home page, and settings page are implemented with little to no functionality.
- **Database/ hosting server:** Part of the team got together and decided to use an EC2 server through AWS to host the website and database for the website. This is the cheapest and most viable option available and some of the team has experience with setting up the EC2 server.
- **Develop Data Structures:** Part of the team got together and began developing the data structures which will be used to house the User, Form Layout, and Active Form collections and their data points.
- **Requirement Document:** The goal of the requirement document was to write out the different requirements for this project and how those requirements will be solved. The document includes both functional and non-functional requirements, user classes, as well as an overview of the project.

- **Design Document:** The goal of the design document was to create diagrams for each component of the system. These diagrams include UML diagrams, database diagrams, the GUI, and other system interfaces.
- **Test Plan:** The goal of the test plan was to create a plan for testing the system based on our requirement document. The test plan is to help find bugs in the code, where we consider the edge cases in specific when looking at inputs to the system.

Discussion of Contribution of each Team Member:

- **Daniel Acosta:** Tasks contributed to this milestone include developing the format and contributing to some of the entries in the Requirement Document and the Test Plan Document. Contributed UML Diagrams and class descriptions in the Design Document. Helped design the color theme and layout of the home page/dashboard, as well as the navigation menu in the mockups. Helped organize class structure for the application.
- **Christopher Demuro:** Tasks contributed to this milestone included contributions to the content of and revisions to the Requirement Document. Tasks also include the complete writing and editing of the Test Plan. This was the largest task contributed, as it required compiling each and every test case that is required for the project, and collecting additional information about hardware and software requirements, potential risks and mitigation strategies, and the deliverables and results of the testing.
- **Alex Merino:** Tasks contributed to this milestone pertained mainly to the formatting of the frontend of the website and the different documents that were required for this milestone. The largest task was the frontend of the website, where a bare-bones representation of what will be implemented by December was required. The focus was mainly on creating all of the different modules that will be needed for the entirety of the project. As for the documents, most of the contributions went towards the Requirement Document in specific. For the Design Document, the introduction and all of the GUI mockups were contributed.

Another task that was contributed which was not in the task matrix for this milestone was setting up the progress evaluation for the milestone and completing parts of the document. The last task contributed was to help the team set up their machines to be able to use the MERN stack and information about how to run development servers, build the frontend, etc. This task allowed for all members of the project to be able to work on the project.

- **Luka Miodrag Starcevic:** Tasks contributed to this milestone include brainstorming and designing the data structure to be used for storing the form templates in the database. Designed the entity relationship diagram for the database and contributed to that section of the design document. Helped organize the class structure of the database and application.

Milestone 2 Task Matrix:

Task	Daniel	Chris	Alex	Luka
Implement Frontend	33%	17%	33%	17%
Implement Routing	0%	100%	0%	0%
Implement Form Editor	25%	25%	25%	25%
Implement User Views	0%	0%	100%	0%
Implement Database	0%	0%	0%	100%
Implement simple form	100%	0%	0%	0%

Discussion of Planned Tasks:

- **Implement Frontend:** This is a continuation of the implementing frontend task from milestone 1. The workload is more spread out now that there is a foundation. Alex and Daniel will still take a bulk of it because there is some overflow from parts last milestone.
- **Implement Routing:** The goal for this task is to create a routing path for different modules of the website. This will be the first part of the project that will involve the backend and is extremely important because it helps all users figure out where in the website they are currently located. It also helps the developers separate different functions and users by allowing certain users access to specific destinations on the web application.
- **Implement Form Editor:** The goal for this task is to implement a first version of the form editor which would allow the Administrators to be able to create, modify, and delete forms. This was agreed upon as the most difficult requirement for the project, so after the front-end was relatively set up, the work on the Form editor would begin. We want to allocate the most time for this requirement because of its importance and difficulty.
- **Implement User Views:** The goal for this task will be to implement the three user types for the system. These users are the student, faculty, and administrator users who, theoretically, will all use the system. Creating the user views/types in this milestone is important to the project so that in the following milestones the registration and sign in functionalities can be implemented.
- **Implement Database:** The goal for this task is to implement the different parts of the database and create collections for the form layouts, users, and active forms. This work is also work that involves the backend since all collections of data will be implemented by users then saved to the server, which requires some backend work. Implementing the database specifically requires creating models as a MongoDB document.
- **Implement simple form:** This task has the goal of implementing a simple form which users can fill out. The form of choice will most likely be a FERPA form due to the simplicity of the form. This form will also be saved in the database in the Form Layout collection and act as a template for all other future forms during development.

Dates of meeting:

- 2/21/2025

Client feedback on current Milestone:

See Faculty Advisor Feedback below.

Faculty Advisor Feedback:

- Website frontend:
- Database/ hosting server:
- Develop Data Structures:
- Requirement Document:
- Design Document:
- Test Plan:

Signature: _____ Date: _____