

## Form Buster

### Team Members:

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- Christopher Demuro (cdemuro2022@my.fit.edu)
- Alex Merino (amerino2022@my.fit.edu)
- Luka Miodrag Starcevic (lstarcevic2022@my.fit.edu)

**Faculty Advisor:** Phillip Bernhard ([pbernhar@fit.edu](mailto:pbernhar@fit.edu))

**Client:** Phillip Bernhard ([pbernhar@fit.edu](mailto:pbernhar@fit.edu))

### Progress of Current Milestone:

Task	Completion	Daniel	Chris	Alex	Luka	To do
Implement, Demo, Test Frontend	70%	50%	0%	50%	0%	Home page, standardize styling
Implement, Demo, Test Routing	50%	0%	100%	0%	0%	Add more api routes and refactor middlewares
Implement Form Editor	30%	0%	20%	0%	80%	Form modification, and publishing
Implement User Views	60%	0%	0%	100%	0%	Debug once database is functional
Implement Database	70%	0%	0%	20%	80%	Test and demo current implementation
Implement simple form	70%	70%	0%	0%	30%	Test and demo current implementation

### Discussion of Accomplished Tasks:

- **Website frontend:** Between the last and current milestone, we have completed about 50% of the website's frontend. This includes the Inbox, Settings, Account, Form List, Sidebar Menu, and redesigning of the Register pages.
- **Implementing Routing:** The *route.js* file, which is located in the backend, has been created and set up for when the frontend is built and ready to be placed in the backend to work as a full-stack web application with functionality. The routing for registration and sign-in has been implemented as well, but needs to be tested once the database is fully functional. The routing will continue to be updated throughout the next milestone to allow for the remaining api calls that need to be made.
- **Implement Form Editor:** Currently, there is one implemented form, so the form editor needs to be pushed back, which is a minor setback. However, this scenario was taken into consideration when distributing tasks. The form editor is the main functionality that the

website requires, which is why three milestones are going to include the implementation and testing of the form editor.

- **Implement User Views:** The *useContext* module from React was necessary for this part and once it was implemented, and a frontend User model was created the user views should now work. Each module, from the App Module downwards now have the functionality to pass only necessary user data to each other module. The next steps are to demo and test the User views in the backend, with the database.
- **Implement Database:** The database is nearing completion by the end of the milestone, with models implemented for Users, Active Forms, and Form Templates. The attributes for each model are finalized and are connected to the rest of the backend. Saving to the database and pulling from the database has limited functionality at the moment, but will be completed by the end of milestone 3.
- **Implement Simple Form:** A FERPA form was implemented to be displayed as a simple demo. The form is able to be displayed on a webpage and is saved as a template in the backend. The only complication that occurred during the implementation was retrieving the fields of the form from the database. But when the bug is worked out, it will help us with the implementation of future forms, so the more time we take diagnosing the problem, the better it will be to learn from.

#### Discussion of Contribution of each Team Member:

- **Daniel Acosta:** Tasks contributed to this milestone include developing account info/settings frontend alongside Alex, as well as developing the inbox frontend. Did minor bug fixing to landing page CSS and helped resolve merge issues in the github repository. Did minor bug fixing in general across the frontend.
- **Christopher Demuro:** Tasks contributed to this milestone include implementing frontend interactions with and queries to the database, managing and debugging database implementation and layout, and ensuring compatibility with Linux-based operating systems.
- **Alex Merino:** Tasks contributed to this milestone include adding the sidebar menu, form list menu, and creating a template for the settings and account page. A modification of the registration menu was also implemented, which rounded out the additions to the front end. For backend implementation, the User views were added along with password encryption. Also, a simple database check for existing users was added to allow for signing into an account.
- **Luka Miodrag Starcevic:** Tasks contributed to this milestone include the implementation of the database into the code, where the user data can now be put into and loaded from the database, and the form templates can be directly loaded or put into the database in the code.

### Milestone 3 Task Matrix:

Task	Daniel	Chris	Alex	Luka
Implement, Demo, Test Frontend	33%	17%	33%	17%
Implement, Test, Demo Form Editor	33%	17%	33%	17%
Setup AWS hosting	33%	17%	33%	17%
Implement, Demo, Test Database	0%	50%	0%	50%

### Discussion of Planned Tasks:

- **Implement, Test, Demo Frontend:** Continuing the completion of fully-functional front-end web app, including a full form editor, full user registration and authentication, and form tracking. Users should be able to access all functions and features of the app quickly and conveniently. Tests will be performed to ensure full functionality and stability of the front-end interface.
- **Implement, Test, Demo Form Editor:** Continuing the completion of fully-functional form editor, including support for creating and managing form templates, adding content, including, but not limited to, text, formatting and other content, and saving and retrieving form templates for modification and use. Tests will be performed to ensure that all form templates are saved and recalled reliably.
- **Setup AWS hosting:** Move our test environment over to an AWS server as a proof-of-concept for deploying this project in a real-world environment. Ensure all functionality works as intended and correct any problems that may arise as a result of the transition.
- **Implement, Test, Demo Database:** Continuing the completion of the backend database, including storage and retrieval of user account information, in-progress form lists, form templates, and form field data derived from user input. Ensure all data is sanitized properly before being stored in the database and all data is retrieved properly when queried from the database.

**Dates of meeting:**

- 3/7/2025
- 3/24/2025

**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: \_\_\_\_\_