Form Buster
Team Members:

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- Luka Miodrag Starcevic (lstarcevic2022@my.fit.edu)

Faculty Advisor: Phillip Bernhard (pbernhar@fit.edu)

Client: Phillip Bernhard (pbernhar@fit.edu)
Date of meeting:

- 11/24/2025

Progress of Current Milestone:

Task	Completion	Daniel	Chris	Alex	Luka	To-Do
Implement, test, and demo Signature Graph	100%	0%	0%	100%	0%	N/A
Implement, test and demo ‘paused’ forms	100%	0%	0%	100%	0%	N/A
Implement, test, and demo Inbox Notifications	100%	100%	0%	0%	0%	N/A
Implement, test, and demo GUI fixes	100%	0%	100%	0%	0%	N/A
Implement, test, demo Saving Forms in Editor	100%	0%	0%	0%	100%	N/A
Test/demo of entire system	100%	25%	25%	25%	25%	N/A
Conduct evaluation and analyze results	100%	25%	25%	25%	25%	N/A
Create user/developer manual	100%	25%	25%	25%	25%	N/A
Create demo video	100%	25%	25%	25%	25%	N/A

Discussion of Accomplished Tasks:

- **Implement, test, and demo Signature Graph:** The signature graph went through its final phase of refactoring where a legend was added to explain the different visual cues that the graph portrays. The logical details behind how the graph is created was fixed slightly but due to the actual form destinations not being part of our project's scope we did not get it to be 100% accurate.
- **Implement, test and demo 'paused' forms:** After devising a way to modify the backend to include the 'paused' forms, the functionality was added for Administrators only. With the inclusion of 'paused' forms, and necessary ability for users to differentiate between active and inactive forms. This led to a GUI change in how the Form Tracker displays types of forms, which lets there be a less cluttered Form Tracker.
- **Implement, test, and demo Inbox Notifications:** Messages in the inbox can now be clicked on to open a popup that contains more detailed information about the notification. The notification also shows any comments made on the form if the notification was for form rejection. Opening these popups automatically marks the notification as read. Visuals slightly updated for the page as well to accommodate GUI changes.
- **Implement, test, and demo GUI fixes:** After all functionalities were finished, the team worked on fixing the backlog of GUI errors throughout the web application. Once all of the GUI errors were resolved, the team then worked on general UI improvements which included design changes and other UX improvements to create a more cohesive and polished application.
- **Implement, test, demo Saving Forms in Editor:** The previous implementation of the Form Editor saved existing form updates as a new form, which was not intended. After a small backend update, when a form that already exists is saved in the form editor, it will update the already saved data in the backend as a new form template.
- **Test/demo of the entire system:** Throughout the entire project, unit and integration testing had been the way that our code was tested. Now that the entire system is complete, we ran it through a system test multiple times, with acceptance testing followed by testing to fail (including stress testing). After testing, it was concluded that the system functions as intended with no major faults.
- **Conduct Evaluation and analyze results:** We finished conducting evaluation on the entire system, with new testers as well as testers from last milestone's evaluation. Returning testers still found the system intuitive and thought that the website looked more professional on some pages with the GUI changes. The new testers found the website easy to handle and navigate, and thought the autofill system was smart and saved them tedious typing time.

- **Create User/Developer Manual:** The user manual was created to provide information on each page of the website and how users can interact with the GUI. Each user type also has specific details for functions that only the specific user has, such as deleting forms for Administrators. The developer manual was also created with two sections; the Frontend Dev and Backend Dev. This was because throughout the project the team divided work amongst each other based on frontend and backend work. Splitting the manual between frontend and backend also gives a good separation of how the web application functions. In the developer manual, each important file is described along with its overall function to the web application along with where, graphically or logically can be seen on the web application.
- **Create Demo Video:** A demonstration video was created which goes through the entire system and displays the various system functions. The video goes through specific tasks that a normal user would perform and provides useful information and tips for the system.

Discussion of Contribution of each Team Member:

- **Daniel Acosta:** Tasks contributed to this milestone include the addition of the popup system in the inbox and a revamp of the Form Buster landing page. For the popup system, a small GUI modal pops up and displays additional information about the notification. In the case of a form rejection, any comments made on the form during the rejection process are displayed in the popup. For the GUI on the landing page, some basic styling was added to make the page more readable, and more details about the Form Buster site were added, in reflection of all of the updates made during the semester.
- **Christopher Demuro:** Tasks contributed to this milestone include the completion of the Backend Developer User Manual, detailing the functionality and locations of the various elements of the backend code. This included the compilation of information, writing, editing and formatting for the developer manual.
- **Alex Merino:** Tasks contributed to this milestone include the Signature Graph, Paused Forms, GUI fixes, Evaluation, User/Developer Manual, and the demo video. For the signature graph, the legend and slightly improved logic was worked on with the goal of making the functionality as close to production as possible without knowing the actual logic behind real FIT form data. The paused forms were implemented along with the Form Tracker dashboard update to show one type of form at a time. There were multiple GUI bugs that need to be fixed, and many of them were fixed, since most of the bugs were accidentally implemented by myself, I should be the one to fix them/ have the most knowledge about how to fix them. The revamped backgrounds to the authentication pages, form list, and setting pages were also part of the GUI fixes.
  People gathered to test and evaluation the system were another task contributed as well as information into the User/Developer Manual, specifically with the user functions and Frontend Dev Manual. The final included is helping out with the demonstration video of the entire system.
- **Luka Miodrag Starcevic:**

Lessons Learned:

- **How Full Stack Web Applications Are Implemented:** This was the first full stack web development project that had been worked on for most of the team. This led to a learning curve in the first semester on how the development cycle for web applications actually went. This included learning the languages required, the packages that come with the languages, and the correct placement of source code. Throughout the project, the team learned how to deal with these issues and how full stack development happens in a work-like environment.
- **Distribution of Tasks Based on Strengths:** While learning web development, each member of the team had a certain strength, from either pre-existing knowledge of similar work or mastery of a certain topic. With that in mind, it was beneficial and more efficient to divide the tasks in ways to let team members work on tasks they were more comfortable with, which increased the productivity of the team as a whole.

- **Importance of Documentation:** Documentation, whether it was testing plans, design documents, or even comments in the code, became so important as the project progressed along. The design documentation and test plan helped the team near the end of the project to check and make sure every function that was required, was actually implemented. Comments in the documentation contributed to much less confusion on the purpose of a certain piece of the source code. Since the project was worked on using source code management tools (Git), the comments from the member of the team that wrote the code can be used to help the other team members read the code and potentially build on it. Another form of documentation that became important was a simple list of tasks that needed to be completed. With the list of tasks it was easier to see what needed to be done as well as the amount of work needed for each task.

Client feedback on current Milestone:
See Faculty Advisor Feedback below.

Faculty Advisor Feedback:

- Implement, test, and demo Signature Graph:
- Implement, test and demo ‘paused’ forms:
- Implement, test, and demo Inbox Notifications:
- Implement, test, and demo GUI fixes:
- Implement, test, demo Saving Forms in Editor:
- Test/demo of entire system:
- Conduct evaluation and analyze results:
- Create user/developer manual:
- Create demo video:

Signature: _____ Date: _____

Evaluation by Faculty Advisor:

- Faculty Advisor: detach and return this page to Dr. Chan (HC 209) or email the scores to pkc@cs.fit.edu
- Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

Daniel Acosta	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Christopher Demuro	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Alex Merino	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Luka Miodrag Starcevic	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

- Faculty Advisor Signature: _____ Date: _____