

## **Milestone 4 Evaluation**

### **FIT AR Navigation App (FITARNA)**

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**Client:** Dean of the Library, Jason Martin [mmartin@fit.edu](mailto:mmartin@fit.edu)

## Milestone 4 Task Matrix:

Task	Completion	Dathan	Ethan	Jacob	Vincenzo	To-Do
Floor 3 and 4 Scans	100%	50%	0%	0%	50%	N/A
Pop-ups	85%	0%	10%	0%	75%	Finish Implementing Pop-ups
Navigation algorithm and add destination/pathways.	65%	0%	15%	50%	0%	Polish
Tour Mode	30%	5%	5%	10%	10%	Implement main tour content
Add tour mode to the main menu.	100%	100%	0%	0%	0%	N/A
Tour mode plan.	33%	0%	0%	0%	33%	Finish plan for floors 3-4

## Task Report:

- Task 1: For task 1, we scanned floors 3 and 4 so we can have a base to work with when planting pop-ups or when implementing Tour or navigation mode. In order to properly align the scans together there needs to be decent overlap with the scans. That way we can piece them together in unity as they appear in the library.
- Task 2: For task 2 we thought of a way to implement and customize the pop-ups we will be using in our app going forward. Things like color, opacity and the maximum amount of text we want to display on a single pop-up. Then we placed them in unity for users to see when they walk near the placed location.

- Task 3: For task 3 we worked on finding new ways for navigation to guide users to a location of their choice while also trying to find other methods of optimization for our path finding algorithm.
- Task 4-6: For task 4, we wanted to start implementation of Tour Mode into FITARNA. We weren't able to get started on working on it directly now. Tour mode will take greatly from navigation mode and the pop-ups so most of the structure for it is done but we need to actually incorporate it. We added the Tour Mode option to the main menu but it does nothing yet. Also, the tour mode plan/outline is about 33% completed. Once the plan is completed we can get to incorporating it into the mode.

#### Individual Report:

- Vincenzo Barager: For my contribution to the 3rd milestone I used the iPhone 17's LiDar capabilities to take the scans we have, generated area targets with them, and then ported them over to unity. Once in unity, I aligned them to form a full map for the app to work with. I also wrote the content for the pop-ups, designed them, and incorporated them into unity.
- Dathan Dixon: For my contribution to the 4th milestone, I used my phone's LiDar camera in order to scan the 4th floor and I also helped to add the Tour Mode to the main menu of the app.
- Ethan Wadley: For my contribution I used the model created in Unity to assist in making navigation functional as well as checking over the navigational code.
- Jacob Hall-Burns: For my contribution I wrote code in order to traverse the map made by Vincenzo and Dathan and accurately navigate users through the library.

#### Task Proposal:

- Task 1: Fully implement pop-ups for the third and fourth floor.
  - Now that scans of the third and fourth floor have been done and have been implemented into the app, we want to finish adding all the pop up markers and information to these floors. We plan to take the pop-up data from a previously assembled list of interesting points around these floors just as we did before.
- Task 2: Finish implementation of navigation to floors 2-4
  - After polishing navigation on the first floor, we want to ensure that navigation between floors works properly. From there, we plan to add destinations to the rest of the floors. We expect adding and navigating more destinations to go smoothly once our navigation system works effectively between all parts of the library.
- Task 3: Incorporate Tour Mode for floors 1-2.
  - Tour mode will use existing code from navigation and pop-ups as a backbone of its design and implementation. We plan to follow the outline of the tour which will be finalized soon after this milestone.

- Task 4: Conduct evaluation and analyze results
  - We want to do extensive testing on the app once all its features are in place to make sure everything works efficiently and effectively. We will start with internal testing and move outward. We will then analyze any feedback we get from users outside of our internal group and adjust our design accordingly.
- Task 5: Create poster for Senior Design Showcase
  - Currently we want to focus on fully implementing other features of the app but we are keeping in mind what the design of our poster will look like and what highlights of the app we want to include on the board. We don't have much progress other than that since the showcase is still a fair bit away as a Milestone 6 task.

Task	Vincenzo	Jacob	Dathan	Ethan
Pop-ups	Main Implementer	N/A	N/A	Reviewer
Navigation	Co coder	Main Implementer	N/A	Tester
Tour Mode	Write Outline	Co coder	Co coder	Tester
Eval & Analyze Results	Gather Feedback	Gather Feedback	Analyze Results	Evaluate on android phone
Poster	Co Designer	N/A	N/A	Main Designer

Client Meeting Date:

Monday, February 25th, 2026, 15:30

Client Feedback:

- N/A

Faculty Advisor Meeting Date:

February, 20 2026

Faculty Advisor Feedback:

Faculty Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_