Secure Door Opener Milestone 2

Team Members:

Name	Email
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Faculty Advisor:

Dr. Marius Silaghi - msilaghi@fit.edu

Client:

Dr. Marius Silaghi - Graduate Professor at Florida Institute of Technology

Progress Matrix:

Task	Percent Completed	James	Christopher	Warren	Luke	To Do
Camera	0%	20%	20%	40%	20%	Delayed
Image Recognition	0%	20%	40%	20%	20%	?
Raspberry Pi	0%	25%	25%	25%	25%	Delayed: Awaiting final confirmation of camera selection
.apk Creation	25%	40%	20%	20%	20%	?
Begin backend endpoints	50%	20%	20%	20%	40%	Need websockets and IOT backend.

Task Discussion:

Camera:
Due to the selection process and testing needed for the Camera this was delayed for a later Milestone Date.

Image Recognition:

Raspberry Pi:
Delayed due to the camera selection, after selection full access to the PI will be granted to finish the required adoption processes and. Will be addressed at a later Milestone Date.

.apk Creation:
Created a login screen and navigation to the main dashboard section.

Begin Backend Endpoints:
Established Route handling for incoming requests. Current routes handle Authentication, Login, Dashboard navigation and reAuth. Set up a SQLite database to store the needed information for both user profiles and device information. Integrated with the Login UI to authenticate users through JWT (JavaScript Web Token) to focus on token based authentication within the app.

Due to the set backs with the Raspberry PI integration backend work is sparse. Added a Device and owner table to the SQLite. Will need to continue work further and set up infrastructure to establish websockets between an authenticated user and a selected device.

Member Contributions:

James Pabisz:

Christopher Kiefer:

Warren Smith:

Luke Bucher:
Login Component within the .apk
Navigation from Login to main Dashboard
JWT Handling for User Authentication and Request Management
Established Routing Through Express.JS
Created Node.JS backend to handle requests
Created SQLite Database to Handle User accounts and Store

Milestone 3 Task Matrix:

Task	James	Christopher	Warren	Luke
Camera	20%	20%	20%	40%
Raspberry Pi	20%	20%	20%	40%
Image Recognition	20%	40%	20%	20%
.apk Creation	40%	20%	20%	20%
Begin backend endpoints	20%	20%	20%	40%

Milestone 2 Task Discussion:

Camera:

Work will need to be done to interface with the Camera driver

Meeting Dates:

Date	Topic
Oct 19, 2022	Discussion of current tasks that have been assigned and current Raspberry Pi status.
Oct 26, 2022	Discussed final camera Selection as well as login flow for application.

Faculty Advisor Feedback below:

Task 1:

Task 2:

Task 3:

Task 4:

Task 5:

Approval from Faculty Advisor

"I have discussed the milestone with the team. I have evaluated the progress and will assign a grade for this milestone."

Signature: _____ Date: _____

Evaluation by Faculty Advisor:

Score (0-10)

James	0	1	2	3	4	5	6	7	7.5	8	8.5	9	9.5	10
Chris	0	1	2	3	4	5	6	7	7.5	8	8.5	9	9.5	10
Luke	0	1	2	3	4	5	6	7	7.5	8	8.5	9	9.5	10
Warren	0	1	2	3	4	5	6	7	7.5	8	8.5	9	9.5	10