The Remotely Accessible Door
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Goal

- Provide users with a way to grant visitors with access to the residence.
- Give users updates regarding activity at the residence.
- Create an easier way for users to enter their residence.
- Allow users for an innovative and secure way to interact with their residence and visitors.

Methodology

Step 1:
Set up individual components: Android application, web server, touch screen, door mechanism.

Step 2:
Create connections between each component and the web server.

Step 3:
Debug and test different scenarios to make any chances as necessary.

Motivations and Objectives

Motivations
- People are looking for easier and safe alternatives to granting others access to their homes.
- Current alternatives can get costly.

Objectives
- Develop a device that will connect users with their residences.
- Update users when specific activities happen.
- Provide a cheaper alternative to existing products.

Results

- Interior Touch Screen
  - Serves as a peephole

- Exterior Touch Screen
  - Allows person to input a code to unlock door
  - Buttons for delivery and mail men to press in order to notify user

Research Challenges

- Setting up the connection between the Raspberry Pi and android application.
- Providing a secure connection.
- Creating the android application with limited prior experience.

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References

[2] https://www.youtube.com/watch?v=Zsd5m6ZtibU