Deliverable 2

Smart Blind Add-on Blind Dev

Vyacheslav Perepelytsya n01133953 Amit Punit n01203930 Chris Janelle Mutuc n01314607 Andrew Fraser n01309442

Table of Contents

| Project Description | 3 |
|--|---|
| Member Info and Participation | 3 |
| Github Link and Screenshots | 4 |
| Stories | 4 |
| Business Model Canvas | 5 |
| Database | 6 |
| Firebase Realtime Database Configuration | 6 |
| Coding Progress | 7 |

Project Description

The smart blind addon is a wirelessly controlled device that is to be mounted to a blind existing operation controls in order to control its operation wirelessly. The device needs two things to operate, the app that will display device data and control the device and a connection to a firebase database, in order to exchange data from the app to the device.

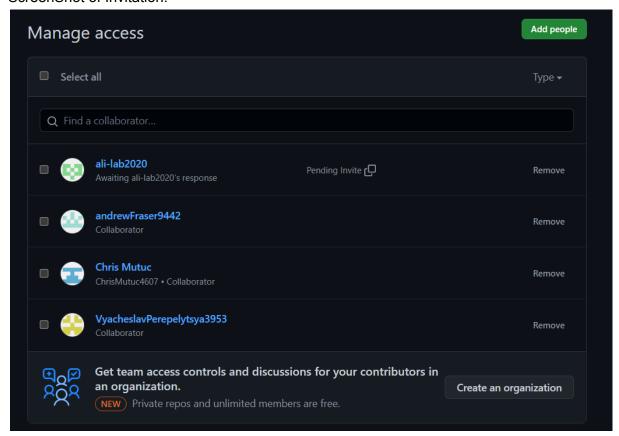
Member Info and Participation

| Name | ID | Signature | Effort |
|----------------------------|-----------|-----------|--------|
| Amit Punit | n01203930 | AnitPurit | 100% |
| Andrew Fraser | n01309442 | Andrew.f | 100% |
| Chris Janelle Mutuc | n01314607 | Mater | 100% |
| Vyacheslav Perepelytsya | n01133953 | Sund | 100% |

Github Link and Screenshots

GitHub link: https://github.com/AmitPunit3930/SmartBlindAddon.git

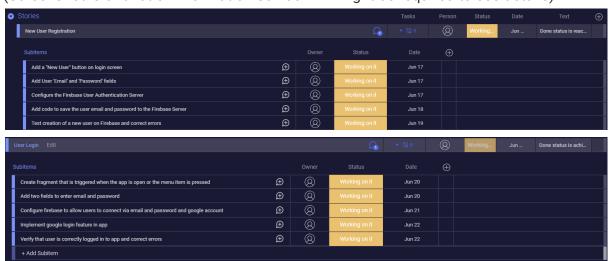
ScreenShot of Invitation:

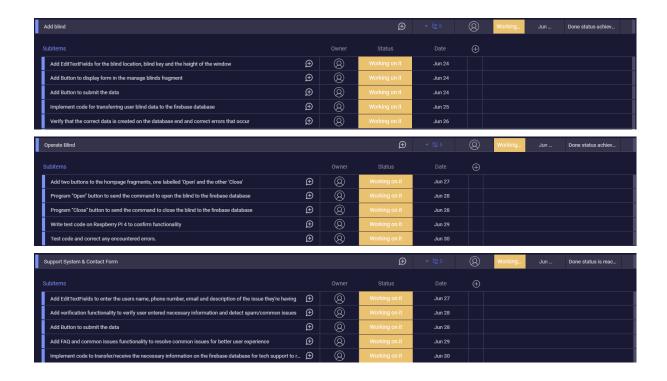


Stories

Link to viewable page (with full DoD information):

https://view.monday.com/2789650579-eb326b7976f0c1eeeba35b004f81cfa4?r=use1 (Screenshot is of a lot of information so zoom in might be required to see details)





Business Model Canvas

| Key Partners | Key Activities | Value Propositions | Customer Relationships | Customer Segments |
|--------------------|-----------------|-----------------------|------------------------------|--|
| *Investors | *Competitive | | | |
| | Prices | *add smart | *self-service | *DIY customer |
| *Developers | *College Data | capabilities to | *auatamar | *! 0 0 0 0 0 0 0 0 0 |
| *Retail Partners | *Collect Data | existing blinds | *customer service | *Homeowners and Renters |
| Tretair i artifers | *Smart Home | *easy to get | provided thru | and Renters |
| *Manufacturers | Accessories | temperature | email | *Hotel or Motel |
| | | data for | | owner and |
| | *DIY nature of | different rooms | | managers |
| | the device | *cheaper to add | | *LandLords |
| | Key | automatic | Channels | LandLords |
| | Resources | function to | | |
| | *Gather data | blinds | *paid and free advertisement | |
| | Gairiei uala | | auvertiserrierit | |
| | *low-cost parts | | *infomercials | |
| | | | *Retail displays | |

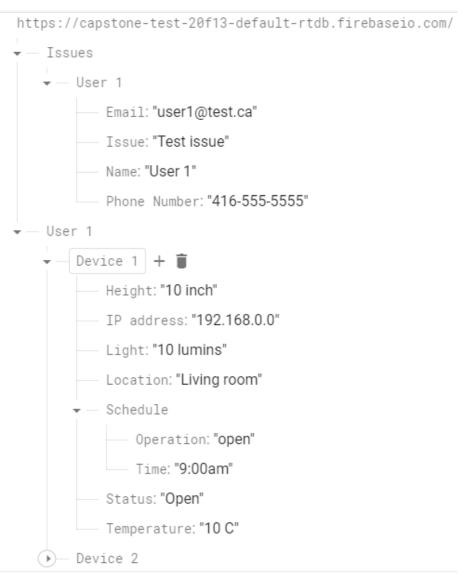
| Cost Structure | Revenue Streams | |
|---------------------------|---|--|
| *Materials cost of Device | *Cost of device | |
| *Database host cost | *selling data to third parties with users | |

| *Research and Development | permission |
|---------------------------|------------|
| | |

Database

The cloud database that will be used is the Firebase realtime database. This database is used because of its built-in feature that the app can use like user authentication. Also, the real-time feature of the database makes it ideal to use the database to send commands to the device to accomplish its function. Below is an example of how the Firebase database is configured.

Firebase Realtime Database Configuration



^{*}Device 2 is configured the same as Device 1

Coding Progress

| Developer | Development Progress | Date added |
|---------------|--|-----------------|
| Amit Punit | Added the manage blinds, and schedule blinds fragments | June 7th, 2022 |
| Chris Mutuc | Implementation of runtime service. Changed background colour for each screen. Implemented menu items | June 8, 2022 |
| Chris Mutuc | Implemented Splash screen. | June 9, 2022 |
| Andrew Fraser | Created template for login screen as well as java class Imported image for the login screen and set it as background If login is successful, the main activity is started Updated AndroidManifest.xml to accept loginActivity | June 9, 2022 |
| Amit Punit | Added the necessary input fields for the manage blinds screen | June 9th, 2022 |
| Chris Mutuc | Added more functionality for the Splash Screen | June 9th, 2022 |
| Amit Punit | Added back press dialog to main | June 10th, 2022 |

| | activity Login page opens when menu item | |
|-------------------------|---|-----------------|
| Vyacheslav Perepelytsya | Updated the menu code, added 'break;' so that there is no overflow glitch Added separate placeholder functionality for settings menu item | June 10th, 2022 |
| Amit Punit | added google sign-in button to login screen Added landscape layout for app Change layouts to other fragments to make them useable Added image to troubleshooting fragment Added layout to the schedule fragment | June 11th, 2022 |
| Vyacheslav Perepelytsya | Created, designed and filled the settings activity with features, including a separate design in the landscape layout, as well as created a functional java class of the settings screen Added the Settings Activity to AndroidManifest.xml Programmed Apply button in settings to go back to main activity Made the settings menu item stand out with both icon and text shown all the time, added appropriate icon mipmap Inserted a wrench | June 11th, 2022 |

| | image with resizable properties into settings Translated all of strings.xml to french and filled the french strings.xml version | |
|-------------|--|----------------|
| Chris Mutuc | Added text style on every fragment layout | June 11th,2022 |