CENG 322 Deliverable 2

Team: The DJKM

Project :The Smart Lock

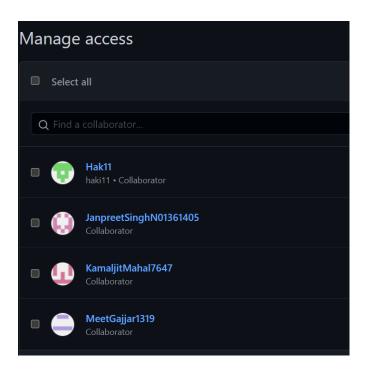
Team Members

- · Dillon Permaul N01372657
- · Janpreet Singh N01361405
- · Kamaljit Mahal N01377647
- · Meet Gajjar N01391319

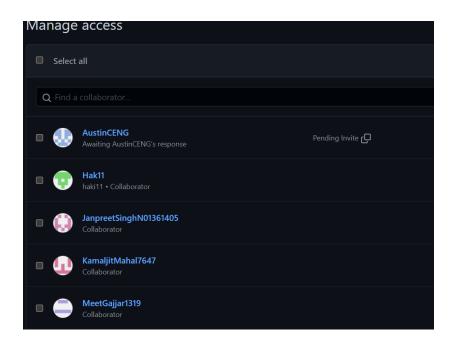
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Screenshot of github invitation:



Hardware CENG317 PROF Austin:



Project Background and Description

The project is a home security smart lock that can be unlocked and locked using a mobile device and a RFID Card. This can be used in people's everyday lives as many people tend to lose their keys or the combinations to locks. This smart lock is very convenient and user friendly as all you need to unlock the lock is either your mobile device or an RFID Card.

App features Include:

- Lock and Unlock the door
- Displays Weather (temperature and humidity)
- Displays time and date
- Set the duration of locked and unlock time (Scheduled Times)
- Track the amount of times door has been locked and unlocked by user
- Detects Motion when a person is near the door

Hardware Used:

- Raspberry Pi 4
- RFID sensor module
- Servo Motor
- Motion Sensor
- Temperature sensor

Members Info and Participation

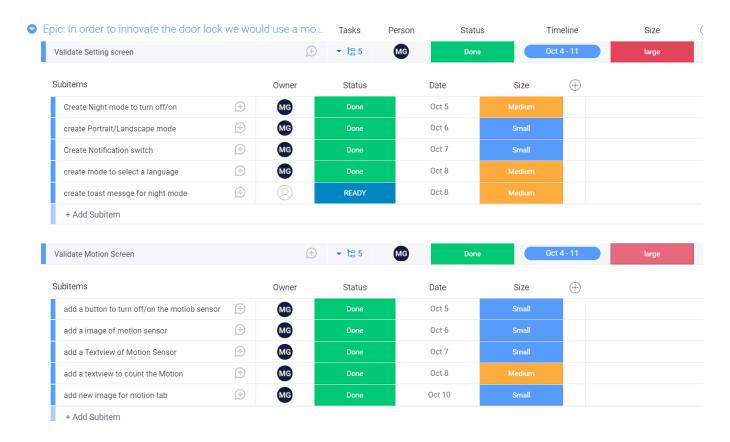
Name	ID	Signature	Effort
Meet Gajjar	N01391319	<i>M</i> -	100%
		Meet.	1) Motion screen 2) Setting Screen
Kamaljit Mahal	N01377647		100%
		1.16	
Janpreet Singh	N01361405	J.S	100%
Dillon Permaul	N01372657	Dillon	100%

GitHub Repository Link:

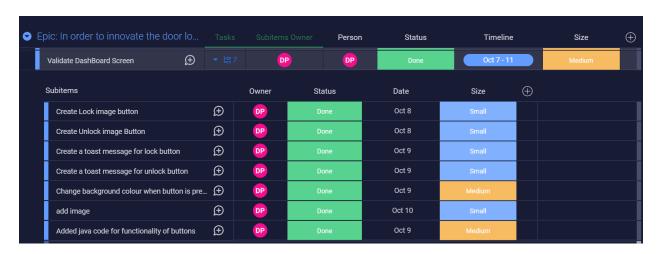
https://github.com/dillonPermaul2657/TheSmartLock.git

Breakdown of Tasks

Meet Gajjar:



Dillon Permaul:



Kamaljit Mahal:



Janpreet Singh:



DoD criteria:

The conditions and criteria that a software solution or feature must manage to achieve in order to be accepted by the client are included in the Definition of Done (DoD). When something is finished, it can be released without more effort or testing.

Business Model Canvas

Key Partners

- Investors
- Regulators and governments
- Financial Partners

Key Activities

- Keep prices competitive
- Provide Customer Support
- Conduct User Research
- Expand to different areas of smart home security

Value Propositions

- Simple and easy to use app to control door lock
- Competitive prices compared to the competition
- No need of hard keys
- Makes it more convenient as you can control almost anything with your smartphone

Customer Relationship

- Self-Service
- Customer Support

Customer Segments

- People looking for affordable smart locks
- People preferring mobile device to lock/unlock the door
- People who want automate home security

Key Resources

- Hardware Engineer
- Software Developer
- App for users

Channels

- Social Media
- Word of mouth
- App stores through high ratings
- Online tech reviewers (Youtubers, The Verge, Business Insider, Cnet)
- Ads across multiple platforms

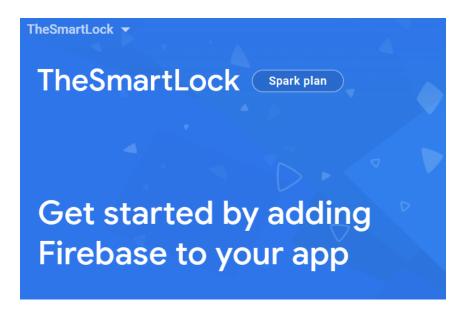
Cost Structure

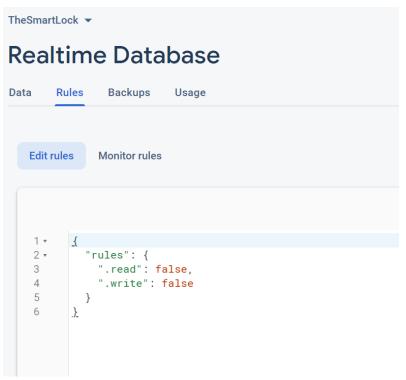
- Advertisement and Marketing
- Product development and maintenance

Revenue Streams

- Product price
- Product Profit
- Affiliate marketing

Screenshot of Database using Firebase





Coding work progress since deliverable 1:

- Implemented a splash screen when user enters app
- Updated home screen with welcome message, image and run time permissions
- Updated dashboard screen with lock and unlock functionality
- Created motion screen to detect and notify user of motion
- Created Settings menu to control app options
- Updated text styles, background colours and alignment of each screen

A Table records the daily stand-ups outcome, use any tool you like, include a screenshot into the document. Table, include date and info:

Tool used: invisionapp.com

Daily Standup

Sprint 2
October 6th 2021

Janpreet Singh	Dillon Permaul	Kamaljit Mahal	Meet Gajjar
What did you work on yesterday? Nothing	What did you work on yesterday? Nothing	What did you work on yesterday? Nothing	What did you work on yesterday? Nothing
What will you work on today? Will discuss with other team members on what to work on in sprint 2	What will you work on today? Will discuss with other team members on what to work on in sprint 2	What will you work on today? Will discuss with other team members on what to work on in sprint 2	What will you work on today? Will discuss with other team members on what to work on in sprint 2
Any blockers? No blockers at the moment	Any blockers? No blockers at the moment	Any blockers? No blockers at the moment	Any blockers? No blockers at the moment

Daily Standup Sprint 2

October 8th 2021

Janpreet Singh	Dillon Permaul	Kamaljit Mahal	Meet Gajjar
What did you work on yesterday? Set up Monday and break down of tasks	What did you work on yesterday? Updated fr/strings.xml	What did you work on yesterday? Create deliverable 2 document	What did you work on yesterday? Updated strings.xml
What will you work on today? Change background colour of each screen to light grey	What will you work on today? Creating the splash screen	What will you work on today? Researched how to include run time permissions.	What will you work on today? Review how to add a new fragment and menu
Any blockers? No blockers at the moment	Any blockers? No blockers at the moment	Any blockers? No blockers at the moment	Any blockers? No blockers at the moment

Daily Standup

Sprint 2

October 9th 2021

at did you work on yesterday?	What did you work on yesterday? N/A
at will you work on today? ate textview for time and e in real-time	What will you work on today? Adding settings screen and adding a menu for configuration
y blockers? ockers at the moment	Any blockers? No blockers at the moment
e	te textview for time and in real-time

Daily Standup

Sprint 2

October 10th 2021

Dillon Permaul Kamaljit Mahal Meet Gajjar Janpreet Singh What did you work on yesterday? Added image buttons called Added settings screen and Added images to different Created textview for time added a menu for configuration screens and fix layout issues lock and unlock with a toast and date in real-time message What will you work on today? Change settings screen to Change font sizes and text colours all through the app Creating a Firebase database and adding the Create landscape version of motion screen and add to home activity and add a dependencies the setting menu button to request run time permissions Any blockers? Any blockers? Any blockers? Any blockers? No blockers at the moment No blockers at the moment No blockers at the moment No blockers at the moment

Daily Standup

Sprint 2

October 11th 2021

Janpreet Singh	Dillon Permaul	Kamaljit Mahal	Meet Gajjar
/hat did you work on yesterday?	What did you work on yesterday?	What did you work on yesterday?	What did you work on yesterday
changed font sizes and text olours all through the app	Creating a Firebase database and adding the dependencies	Created landscape version of home activity and added a button to request run time permissions	Changed settings screen to motion screen and added to the setting menu
/hat will you work on today?	What will you work on today?	What will you work on today?	What will you work on today?
Vork on deliverable 2 document and update Monday Tasks and oreakdowns	Updated strings.xml/fr and work on deliverable 2 document	Fixing the landscape version of home fragment and work on deliverable 2 document	Update motion screen and work on deliverable 2 document
any blockers?	Any blockers?	Any blockers?	Any blockers? No blockers at the moment