TIME-KEEPER

CS5551 Advanced Software Engineering
Spring 2017

Team – 3

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1. Introduction

Time-Keeper:

In the present world, Health and Time are the two most important aspects in everyone's life. So, this application comes with a reminder and alarm for different types of purposes which will be explained in the further proceedings.

2. Objectives and Project Goal

2.1 Goal

The foremost objective of this application is to keep a person up to date with the things that he/she needs to do on a specific date and on a specific time and to make him/her punctual at their work and things that need to be done.

2.2 Specific Objectives

2.2.1 Notifying the users about the things such as Assignments, Taking Medicines, Shopping.

2.2.2 Waking the user using an alarm

2.2.3 Capable of storing notes that are important to the user

2.3 Specific Features

2.3.1 The Application uses Voice to remind the things that need to be done.

2.3.2 The Application uses the Google Maps API to notify the destination and the things nearby in the path of your travel.

2.3.3 The Application uses various types of games to wake up the user.

2.4 Significance

The Application provides a combination of reminder, wake up alarm and Notes for the user without using different applications.

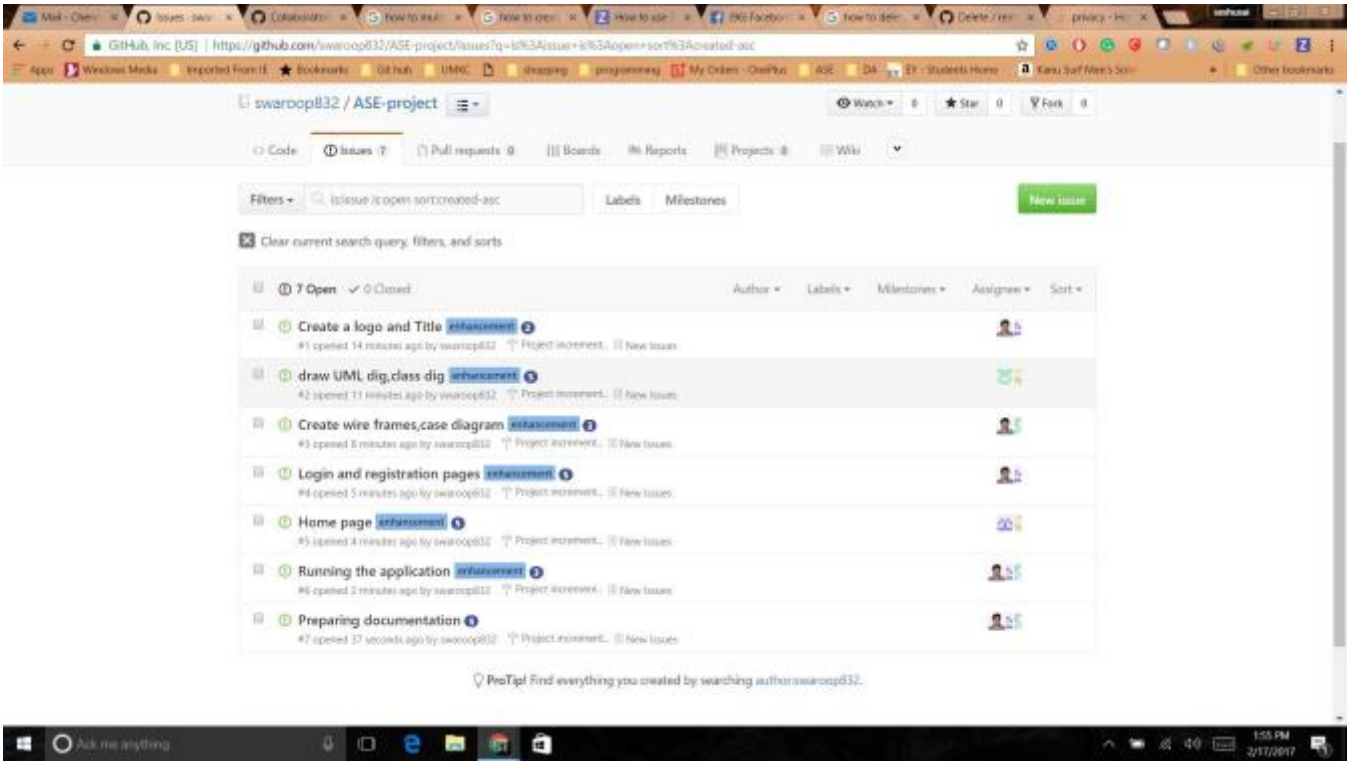
3. Project Plan

3.1 GitHub Screenshots

3.1.1 Issues

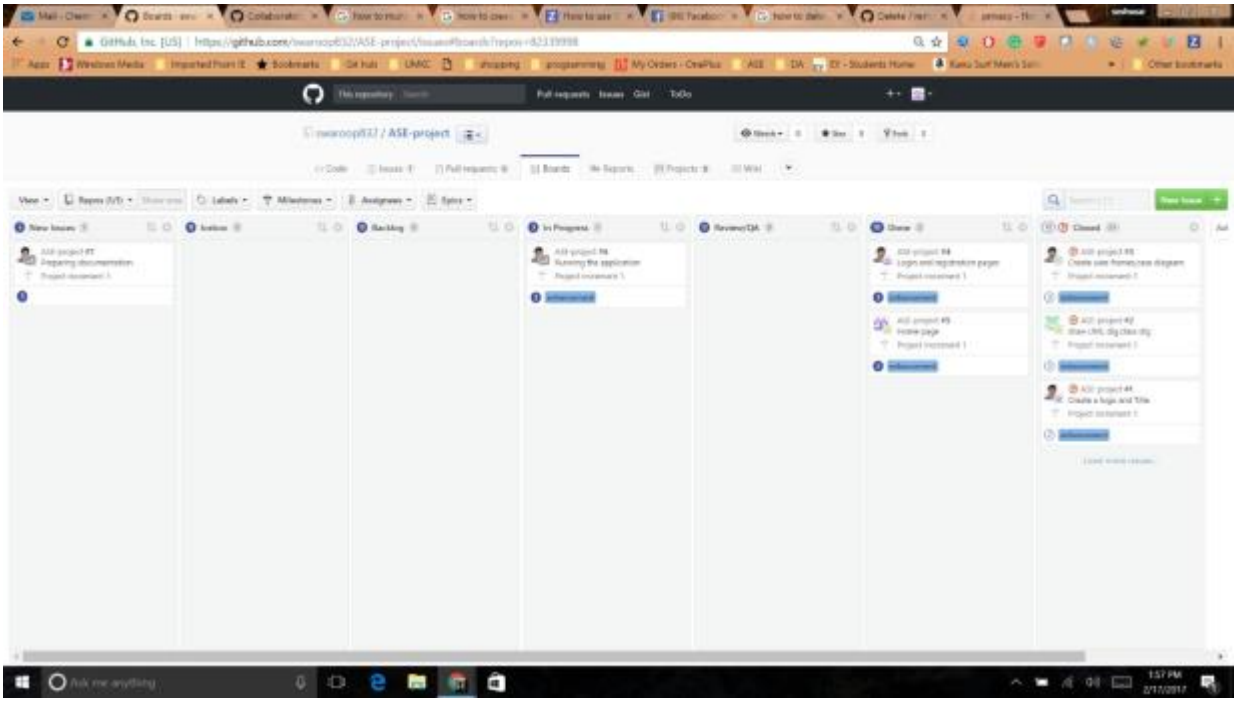
We had the issues regarding

Creating Logo & Title, Designing UML and Class Diagrams, Designing Wireframe Diagrams, Login and Registration Pages, Home Page, Running the Application in Mobile, Preparing Documentation.



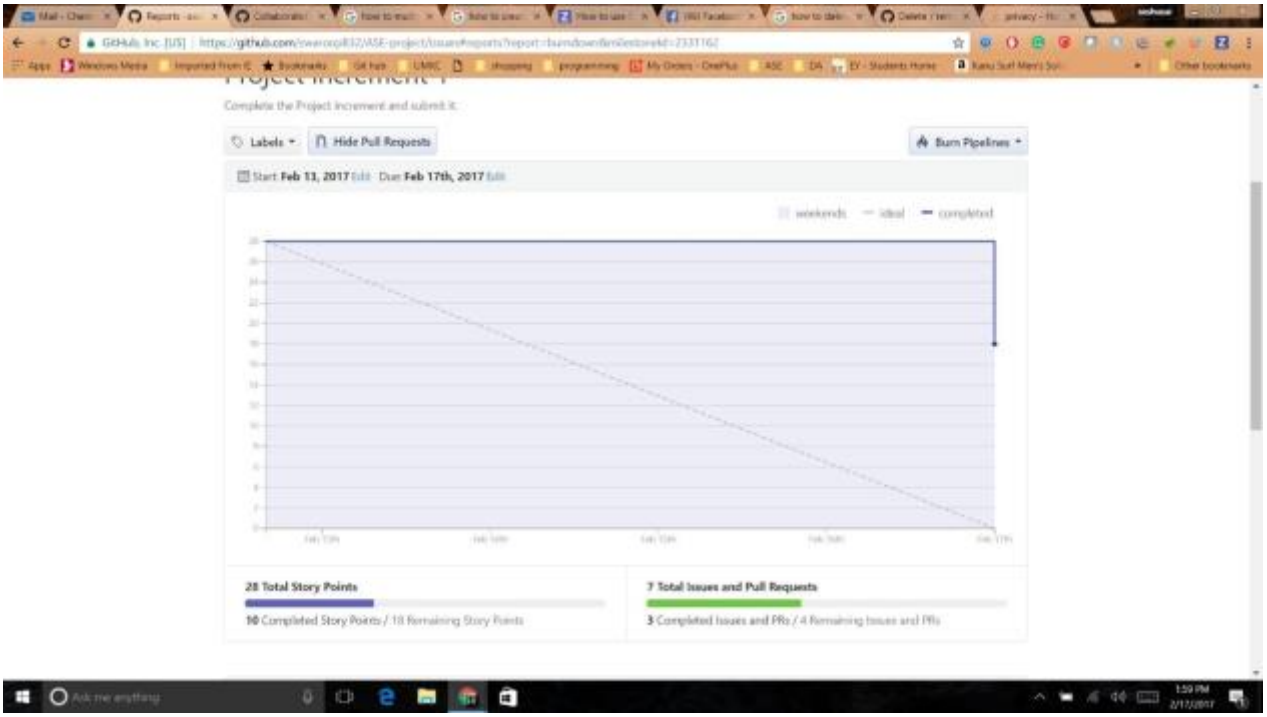
3.1.2 Project Timeline, Members, Task Performed

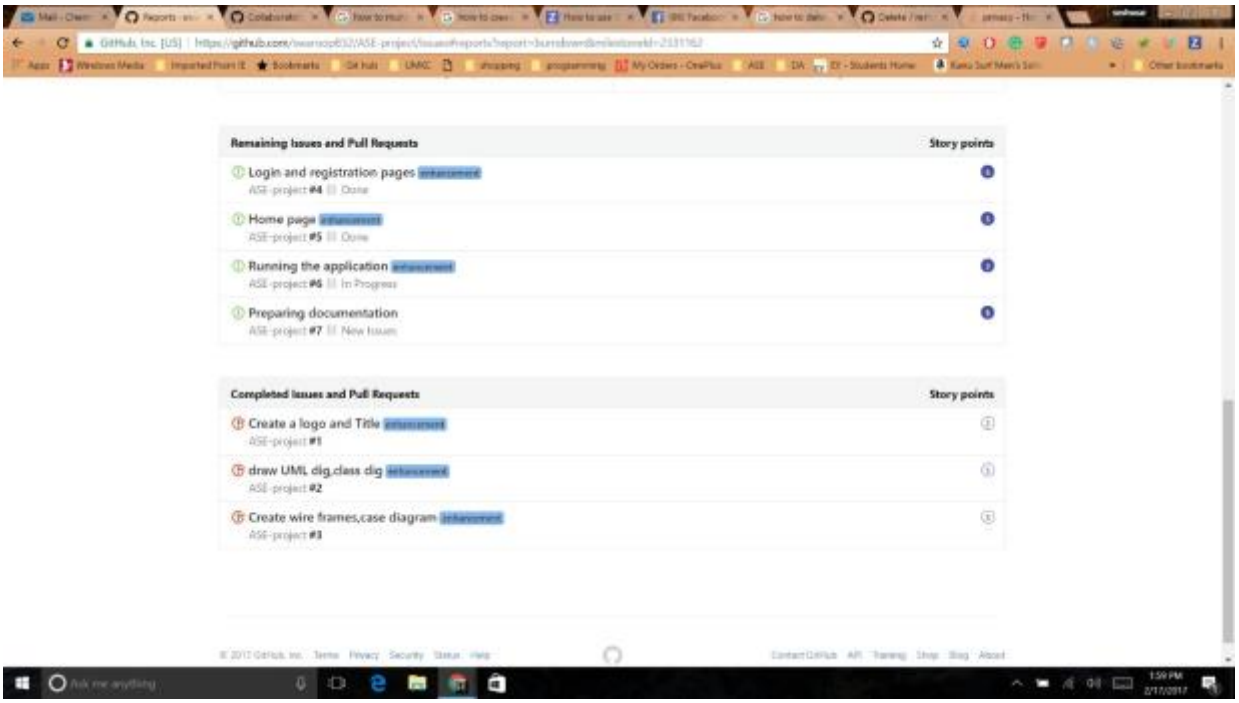
The below screenshot gives an idea regarding the issues and state of the issues.



3.1.3 Burn-Down Chart:

The Burn-Down chart was created based on issues that we faced.





4. Project Increment - 1

4.1 API's Used

4.1.1 Facebook API

We did integrate Facebook API to the application.

We shall use below mentioned API's in the upcoming increments to implement the technologies.

We shall also use Google Maps API and Calendar API

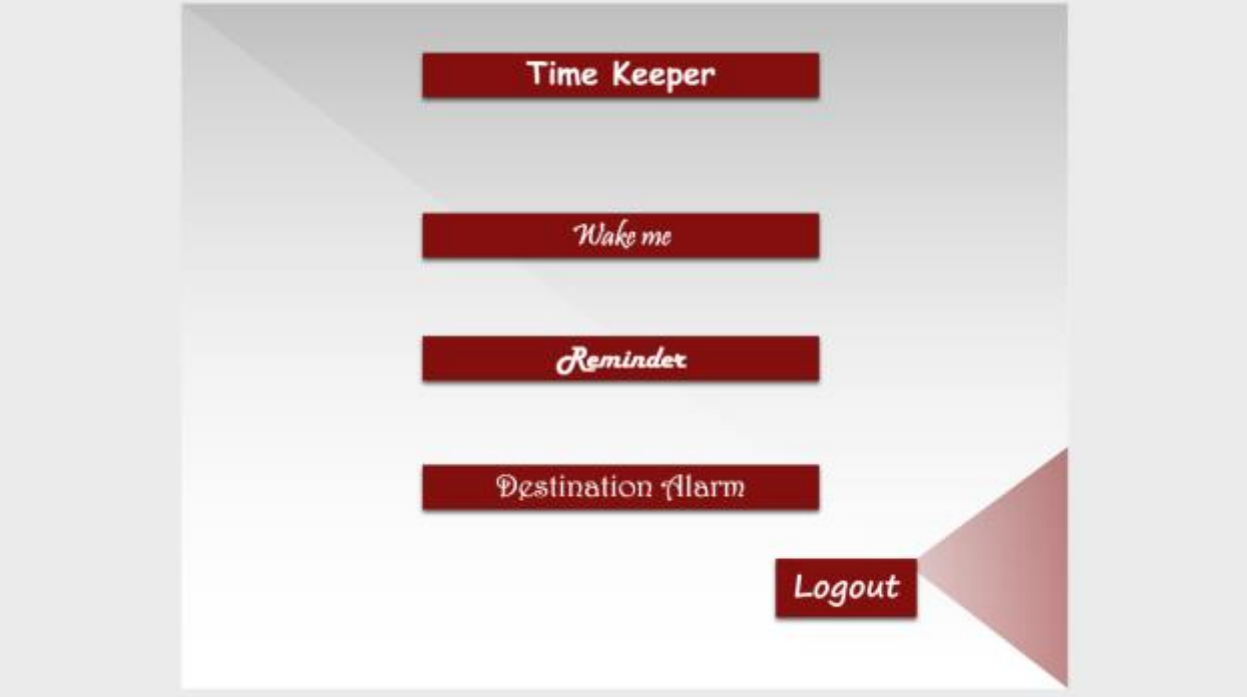
4.2 Design of Features

4.2.1 Wireframes

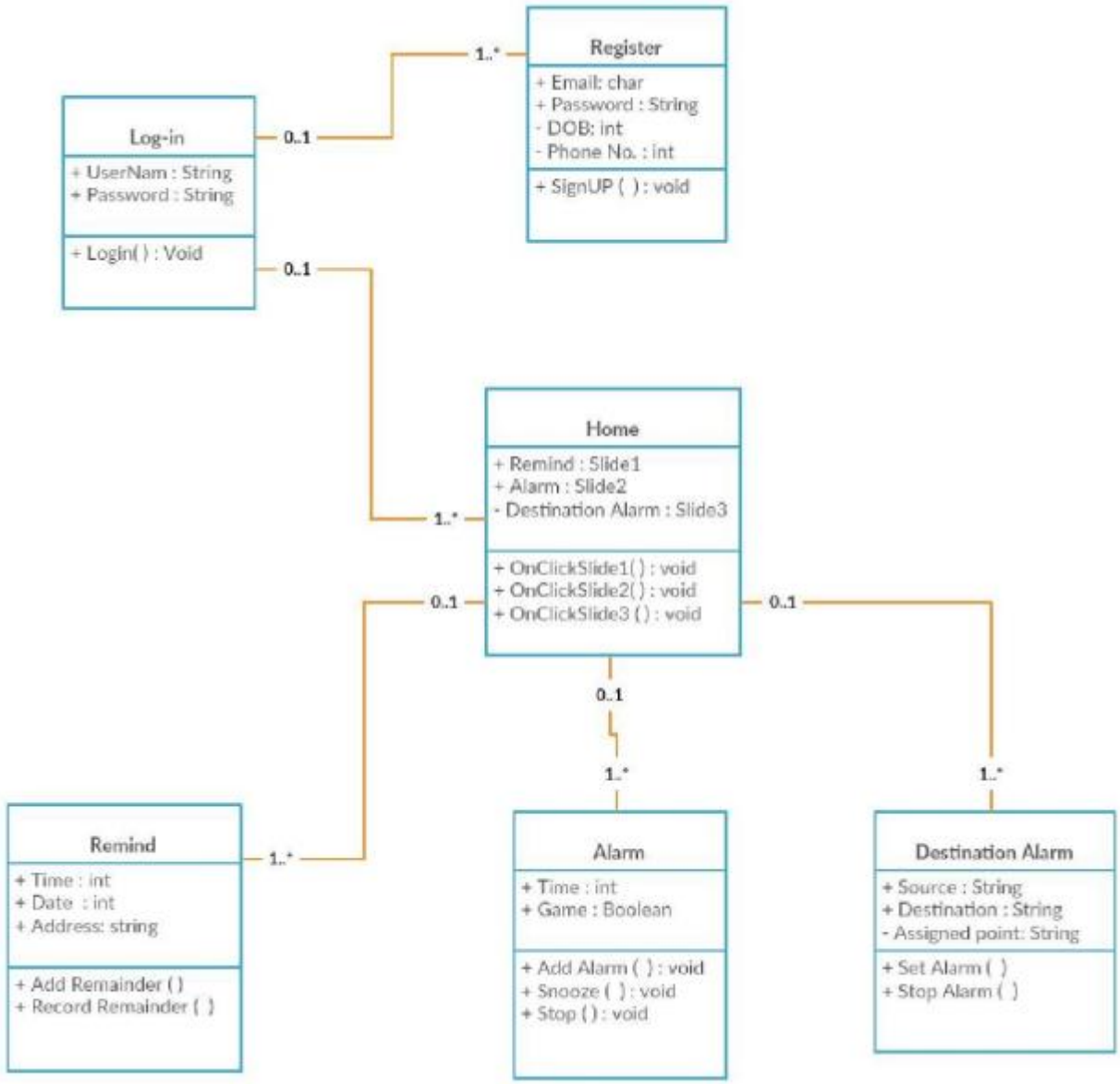
1) Login Page (wireframe)

2) Register Page (wireframe)

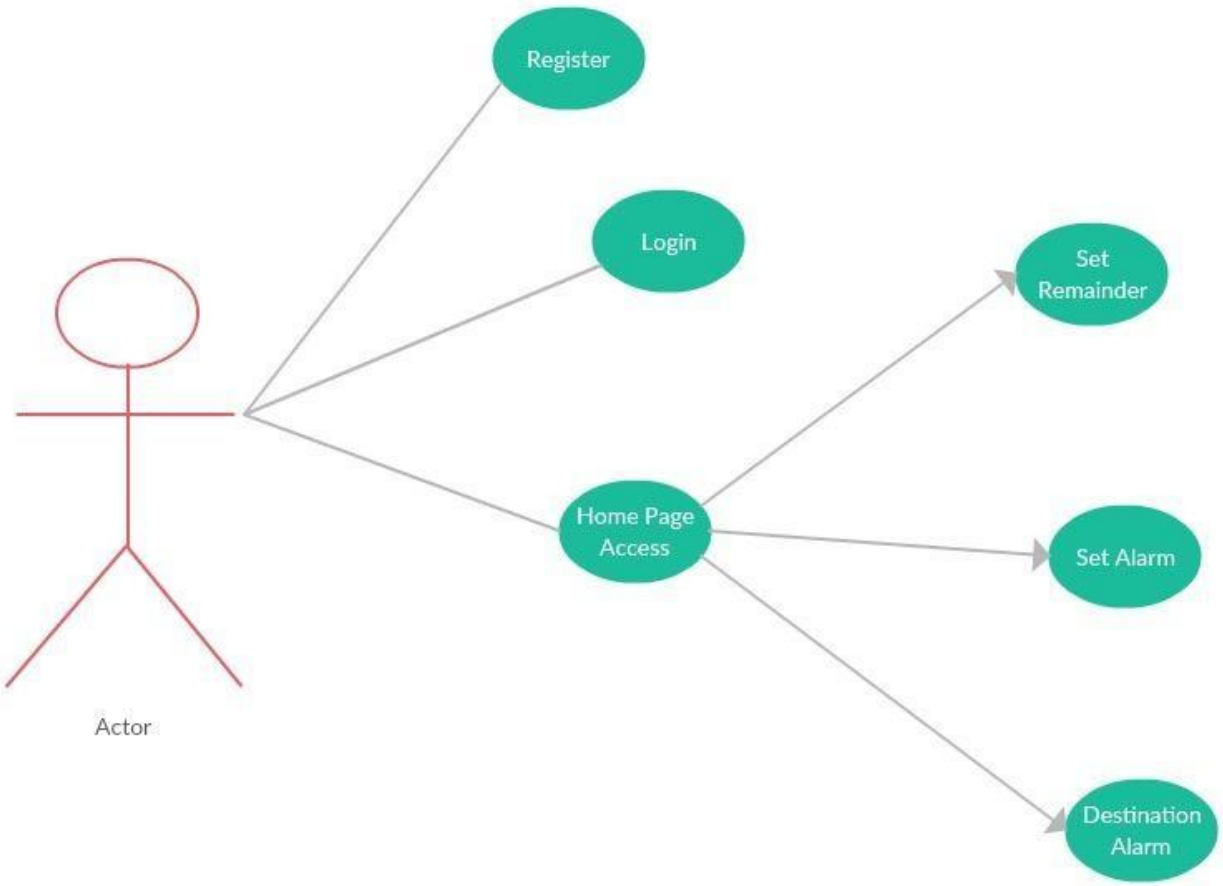
3) Home Page (wireframe)



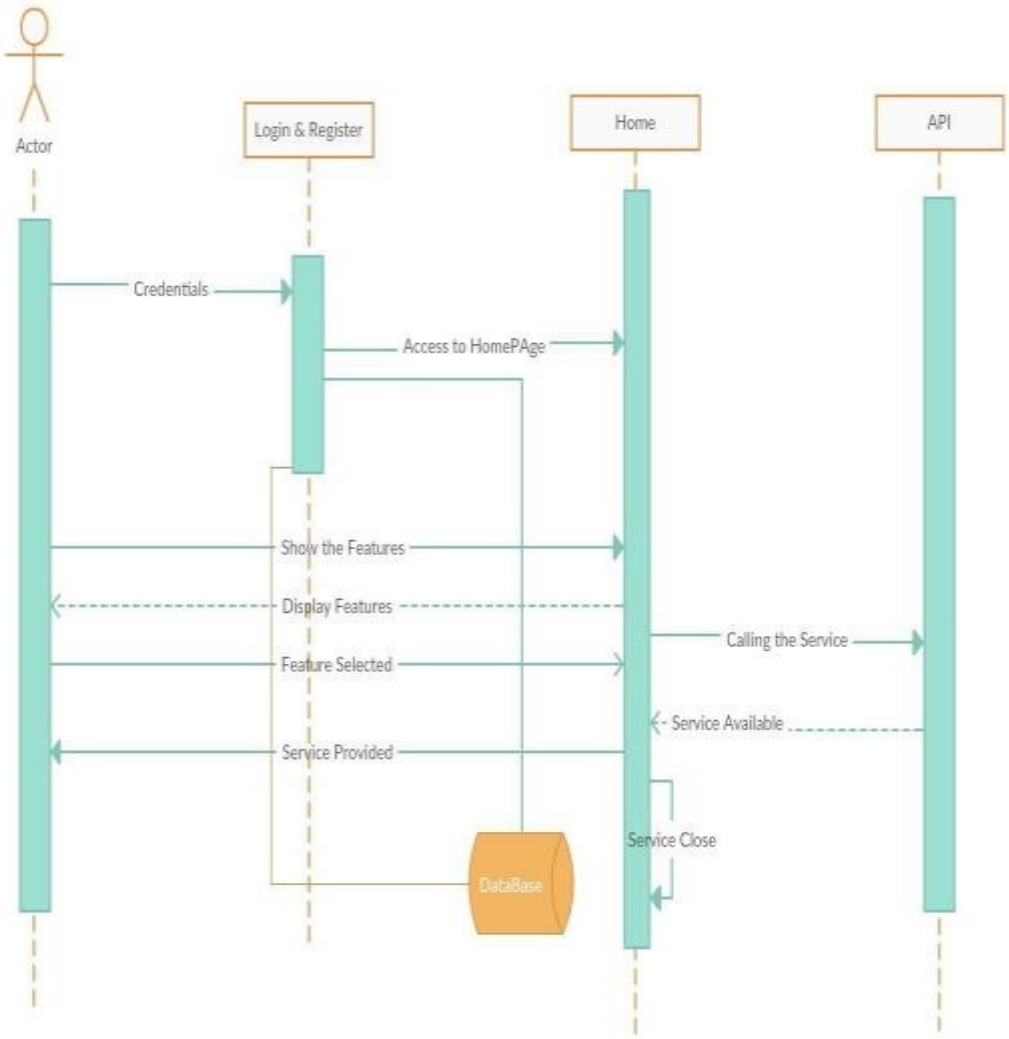
4.2.2 Class Diagram



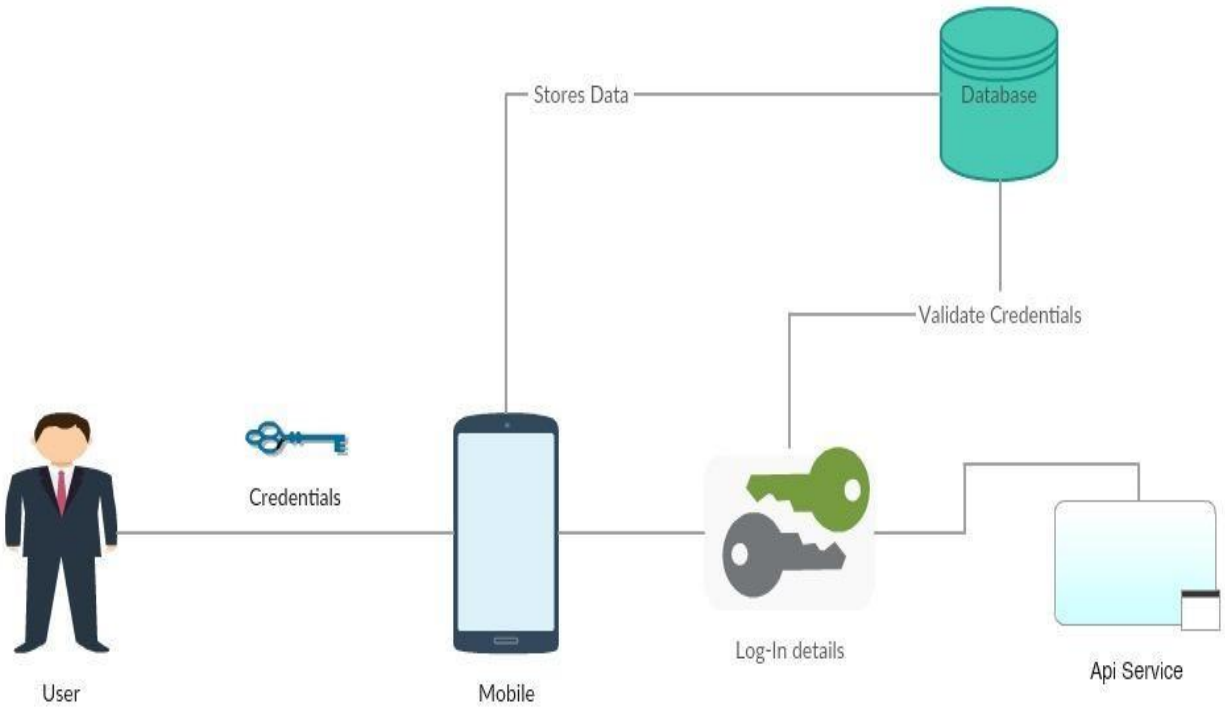
4.2.3 Case Diagram



4.2.4 Sequence Dig



4.2.5 Architecture



4.2.6 User Stories

I am a	My Purpose.	Benefit
User.	**Remind** Set Remainder	Notifies the activities.
	Wake Set Alarm	Wakes me up with a interesting puzzle.
	Notes To store some quotes and make Notes which are important	Helps in storing data in the way of taking notes and some might have a habit of writing dairy, so they can use this.

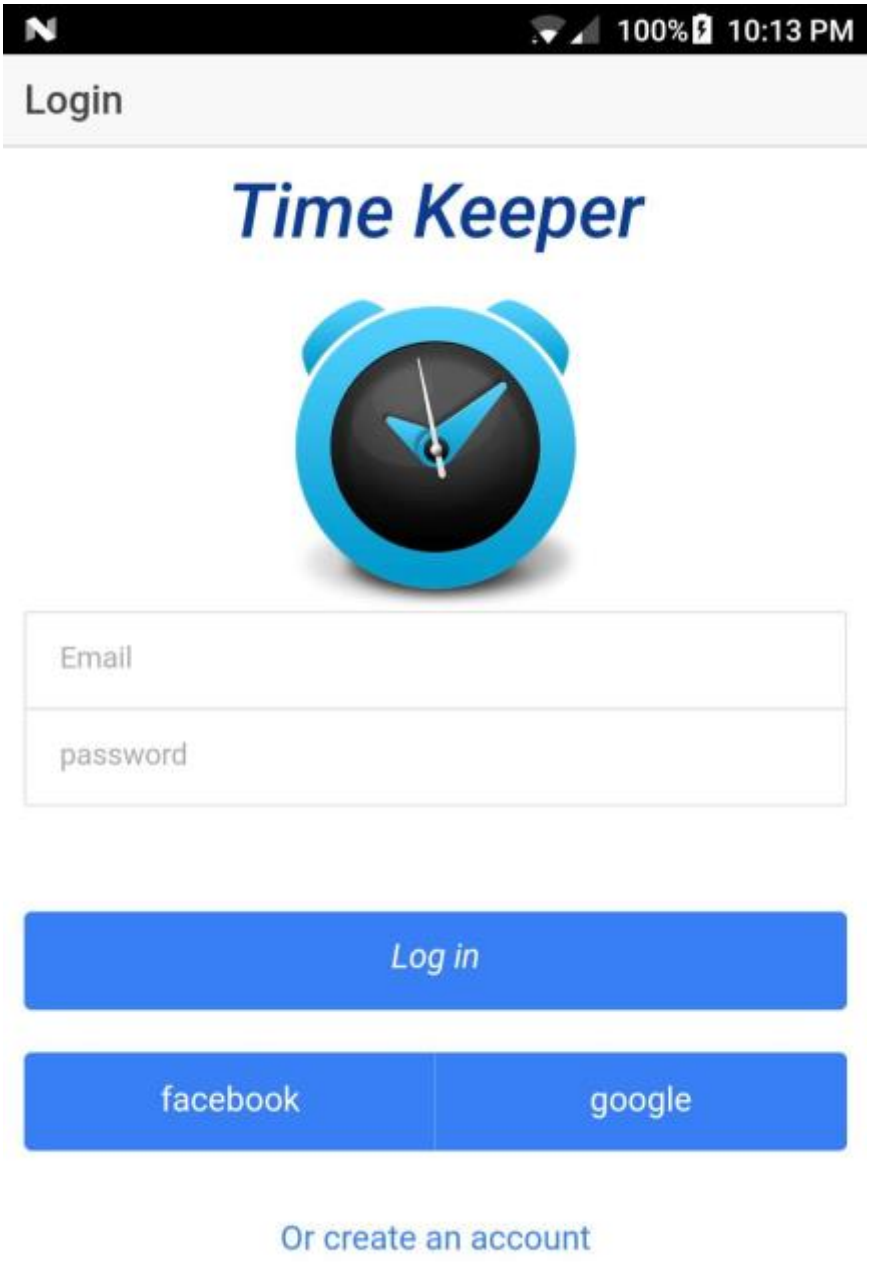
4.2.7 Testing

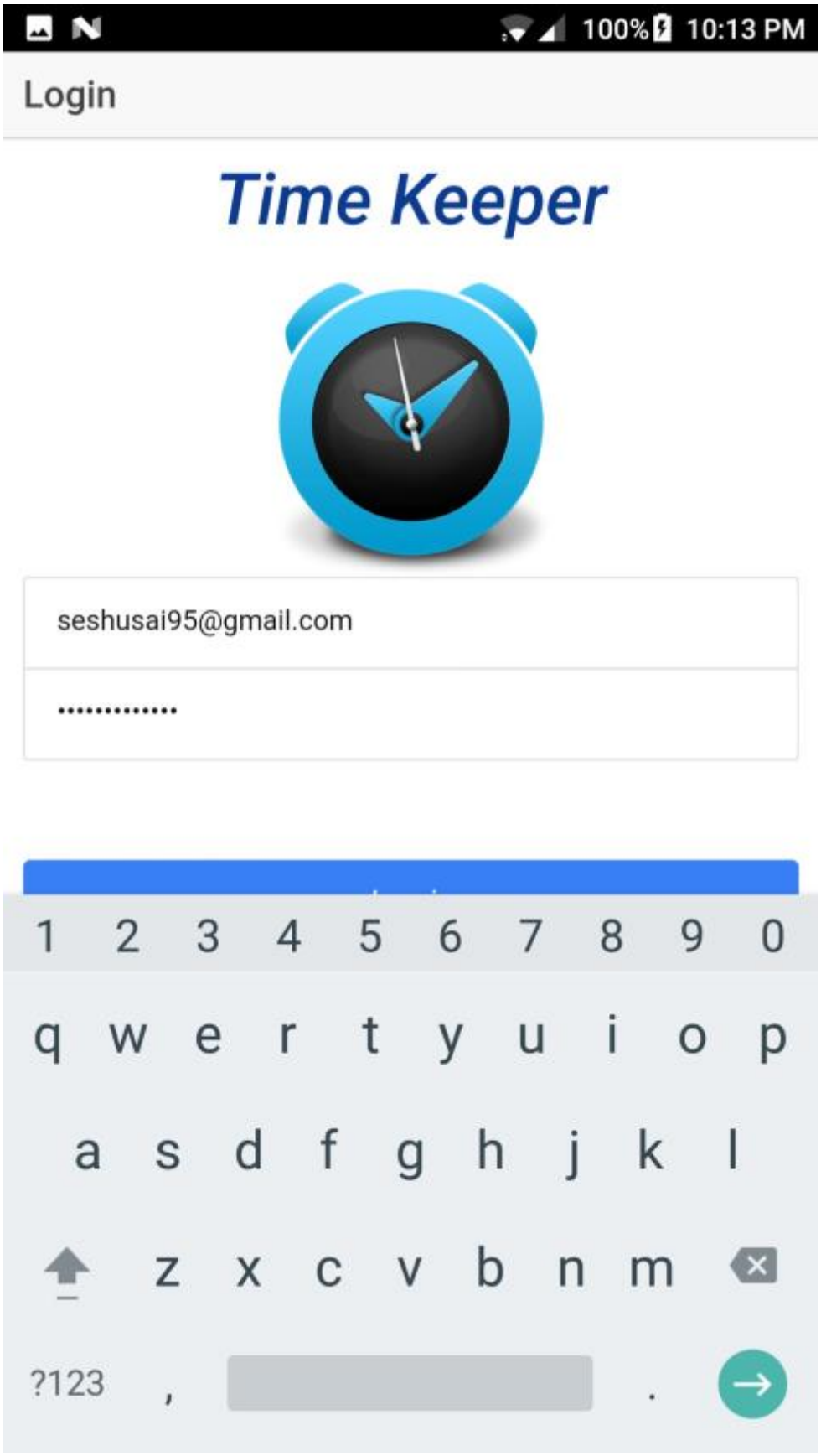
Cases for Register and Login Pages

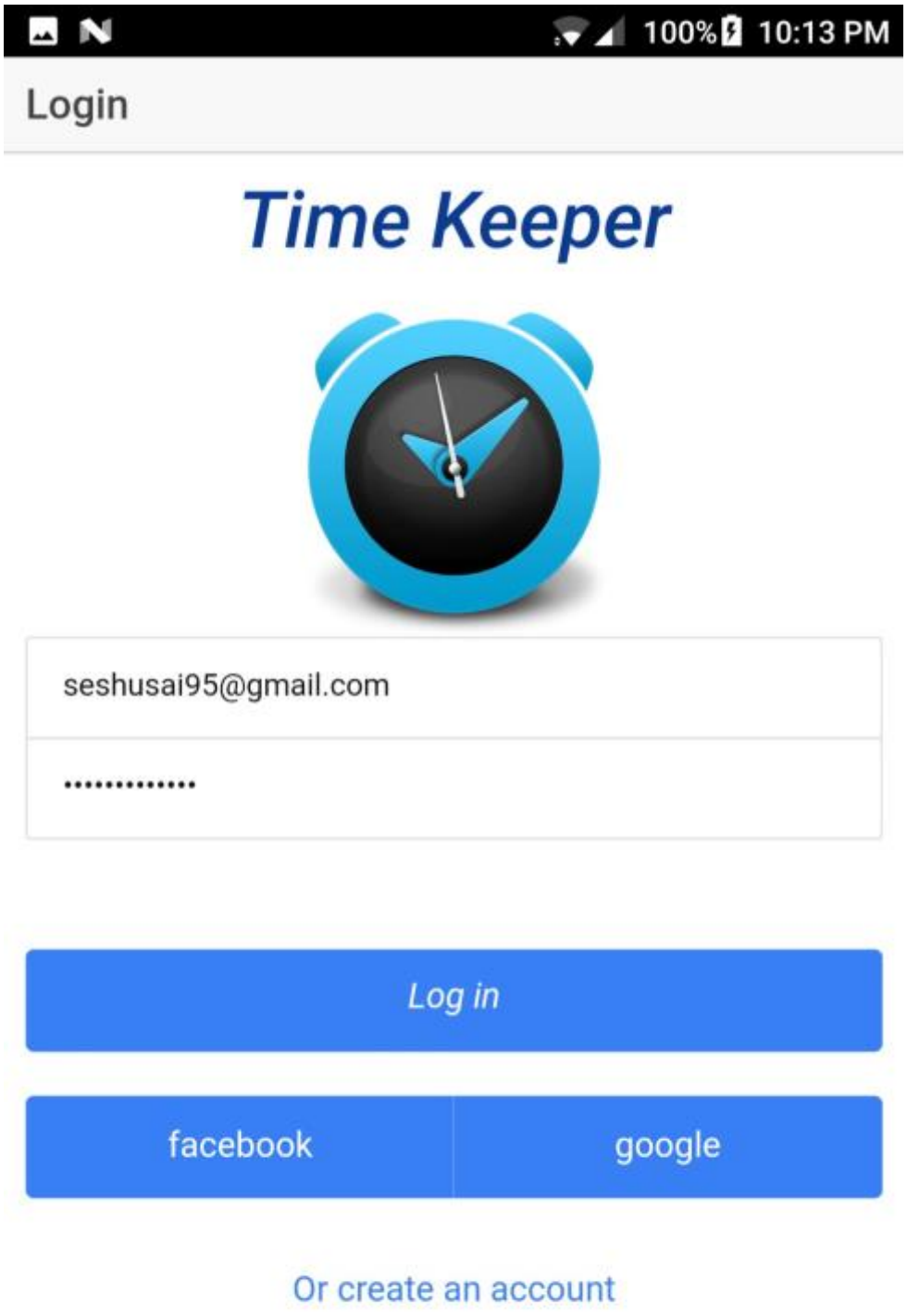
Cases	Description for Test case	Results Expected	Genuine Result
Login	Please enter Invalid Username & Password	It is Error	It is Success
Login	Please enter Invalid Username & Valid Password	It is Error	It is Success
Login	Please enter Valid Username & Invalid Password	It is Error	It is Success
Login	Enter Valid Username & Valid Password	Logged into Home Page	It is Success
SignUp	Email ID should end with @mail.com	Invalid Mail	It is Success
SignUp	Length of Password should have minimum 8 characters	Password Weak	It is Success
SignUp	Password column and Confirm Password column should match	Registers shall be Directed to Login Page	It is Success

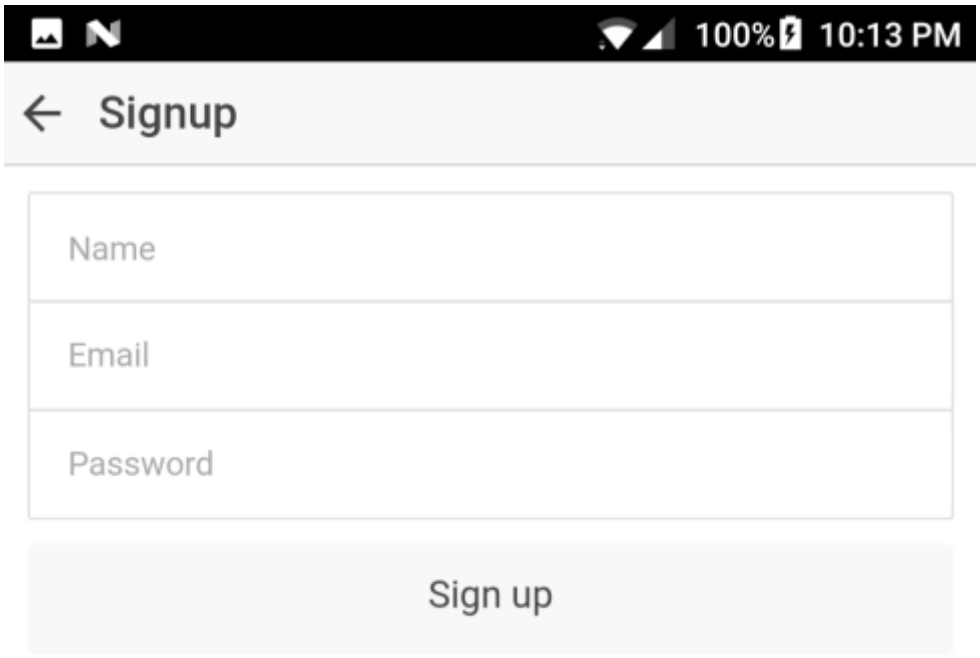
4.3 Project Implementation

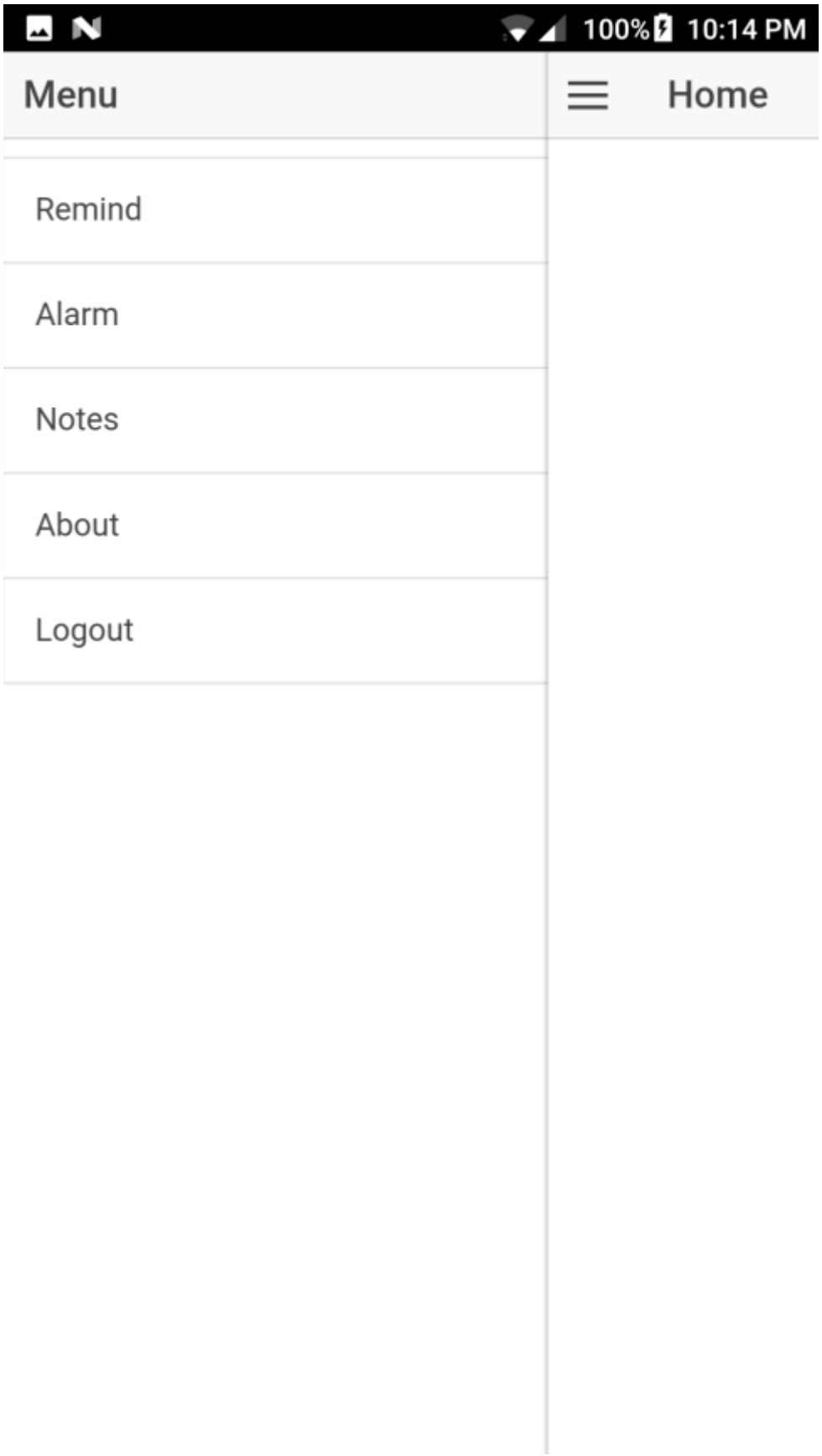
We implemented the TimeKeeper App in Android Studio and run it on the Android device. Screen shots shows how the application is run.




100% 10:13 PM
Login
Time Keeper
seshusai95@gmail.com
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123 ,
.


100% 10:13 PM
Login
Time Keeper
seshusai95@gmail.com
Log in
facebook
google
Or create an account

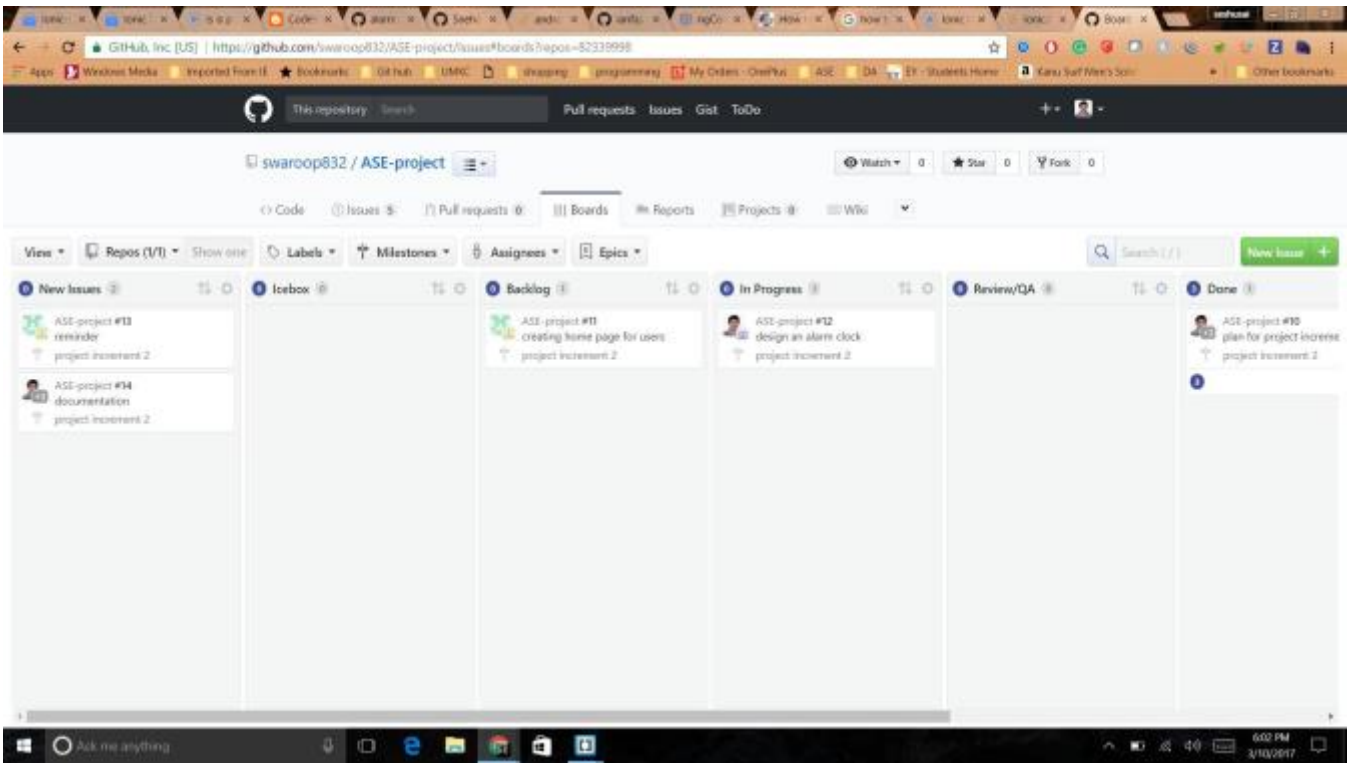

100% 10:13 PM
Signup
Name
Email
Password
Sign up


100% 10:14 PM
Menu
Home
Remind
Alarm
Notes
About
Logout

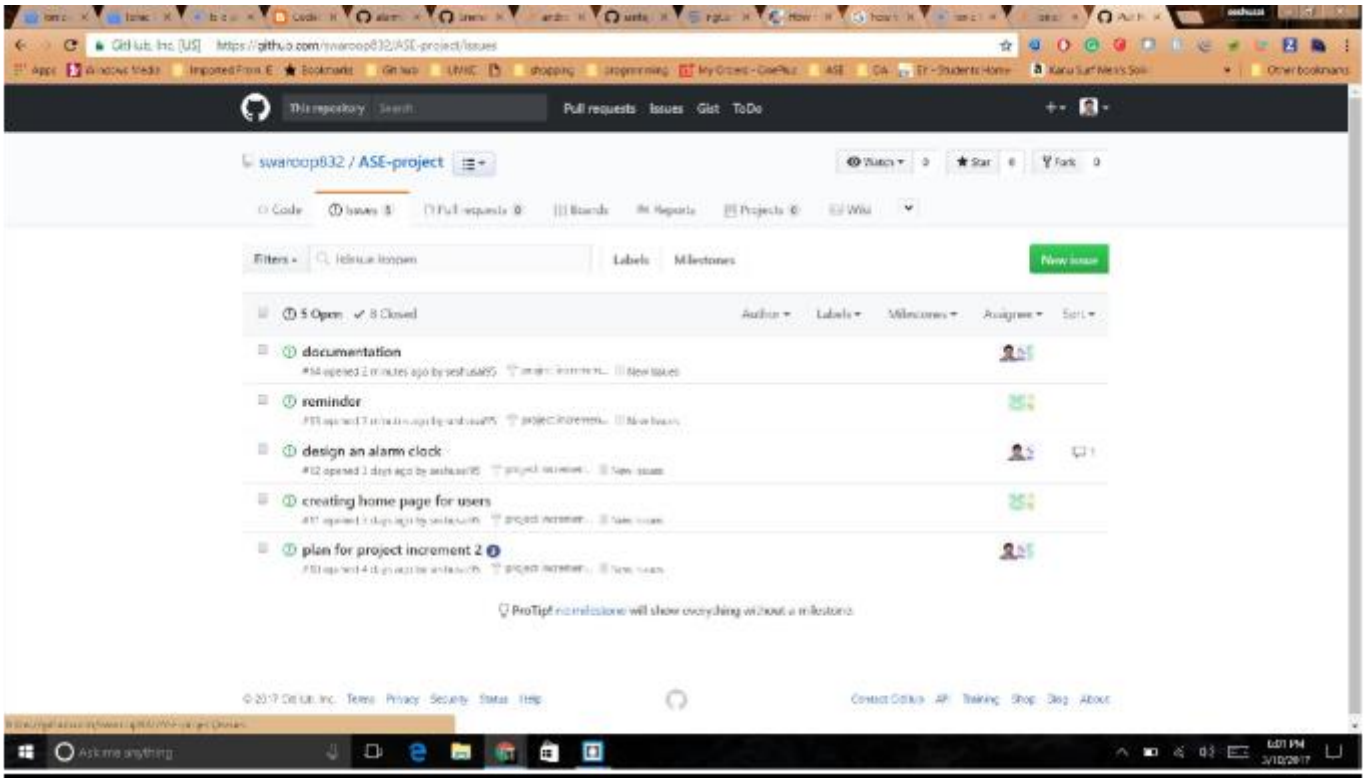
5. Project Increment 2

5.1 GitHub

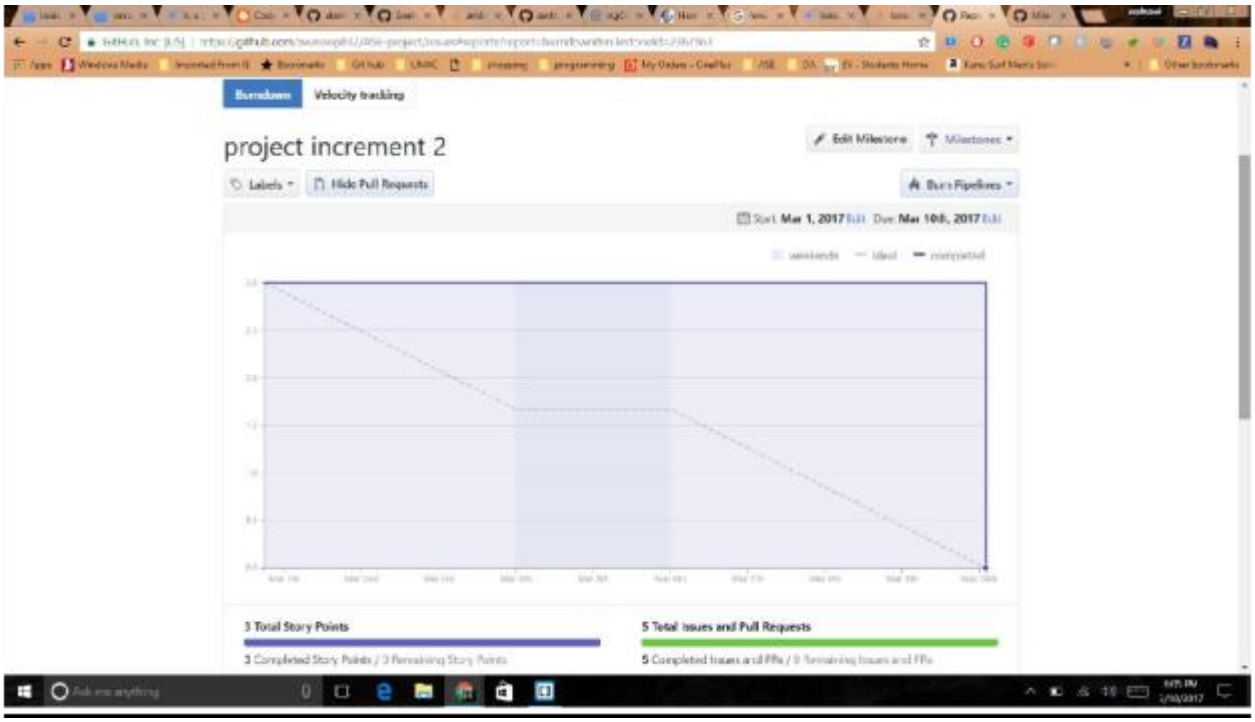
5.1.1 Project Timeline, Members, Task Performed

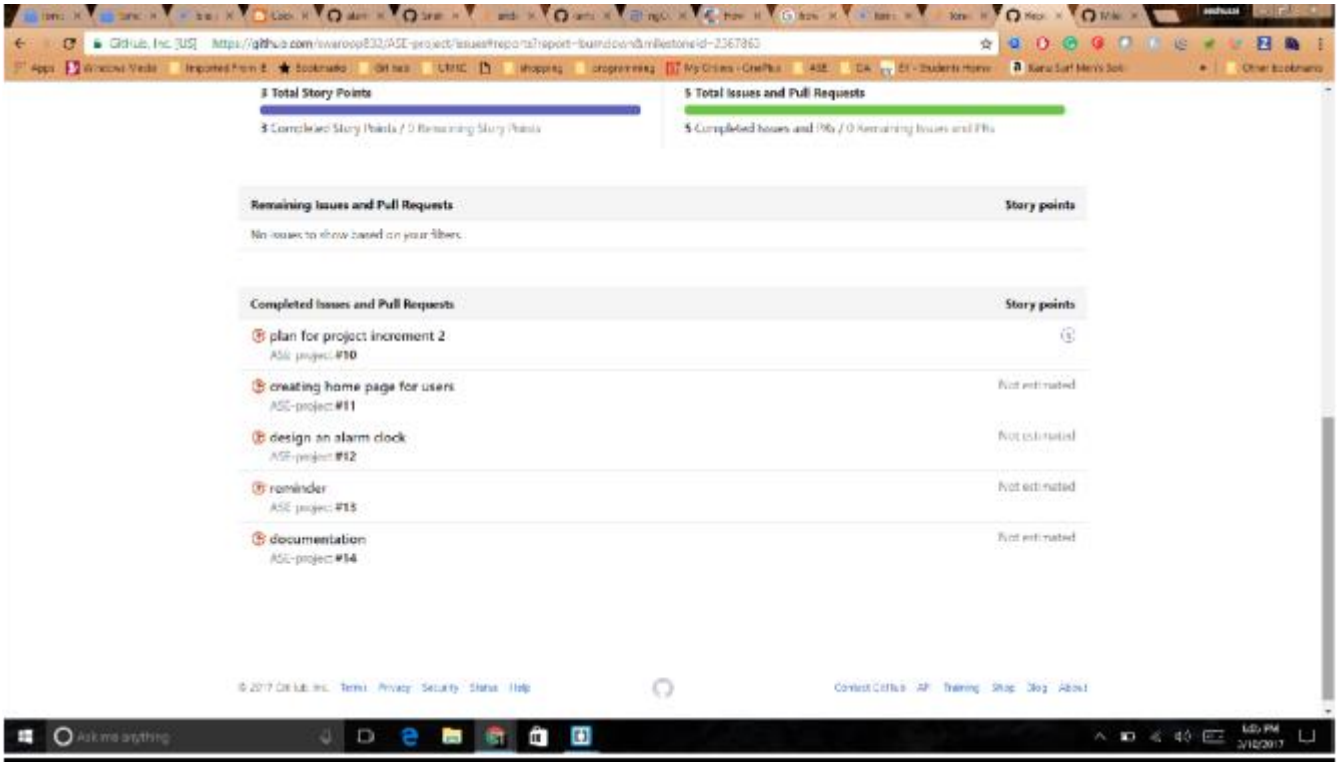


5.1.2 Issues

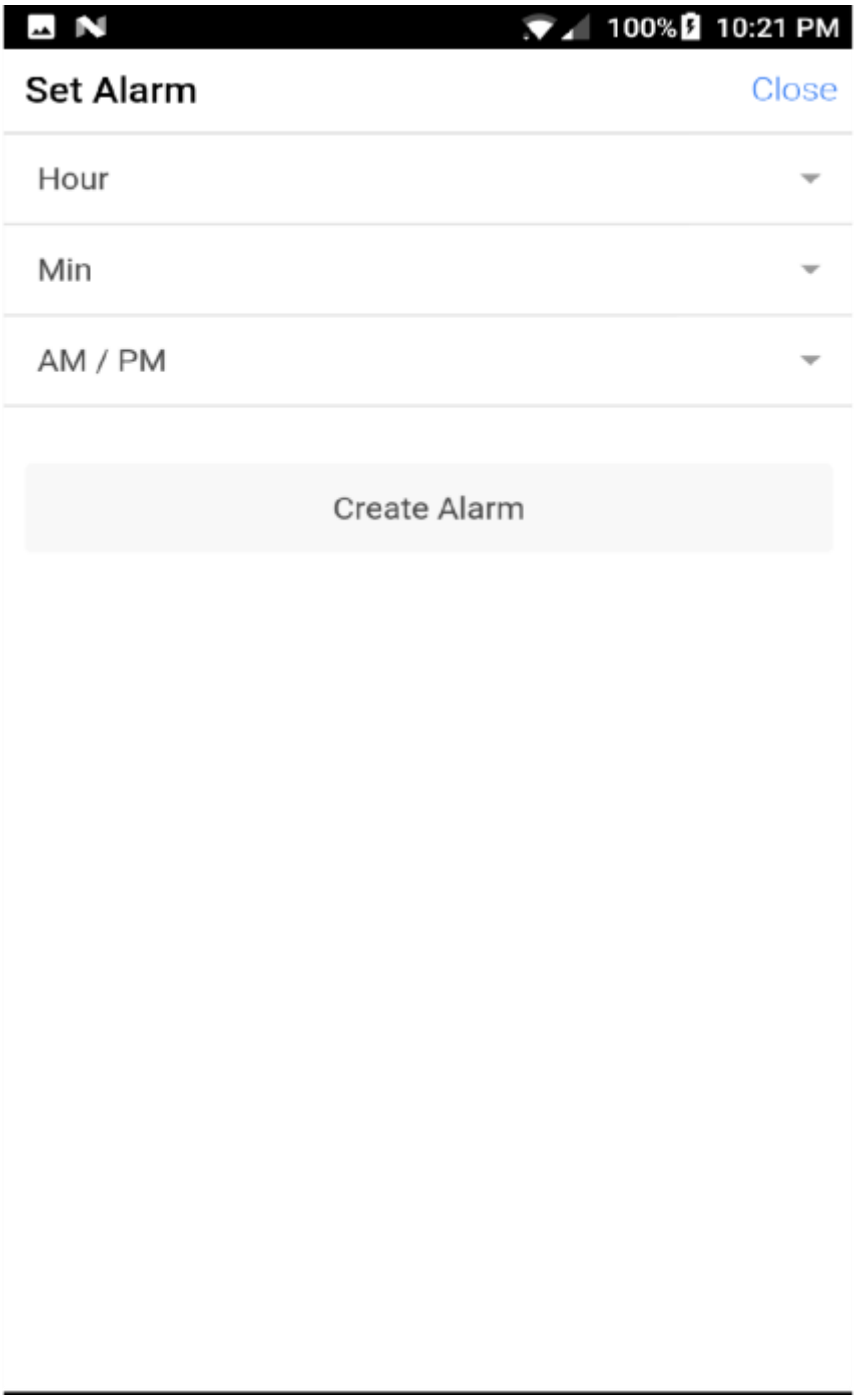


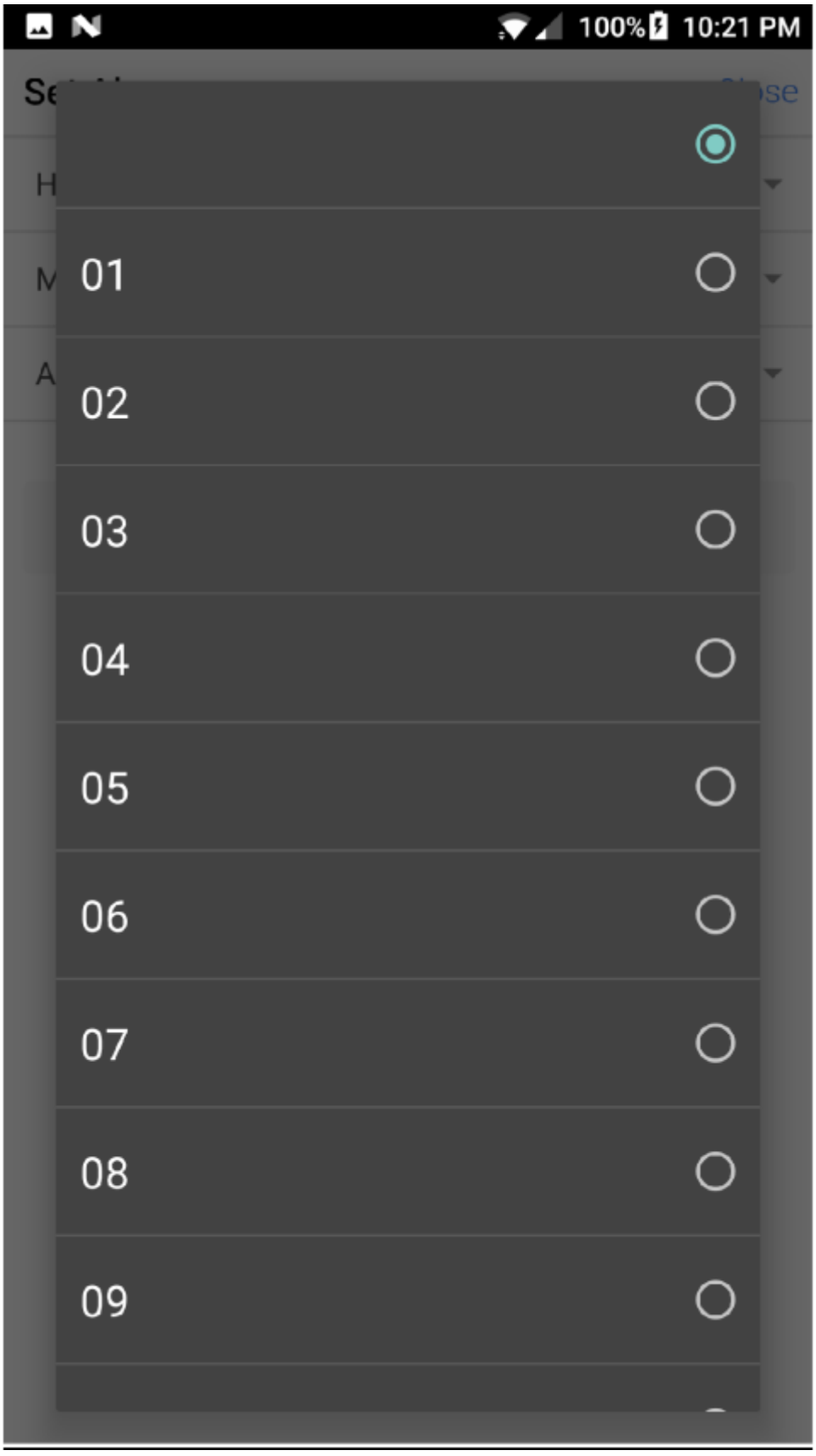
5.1.3 Burn-Down Chart

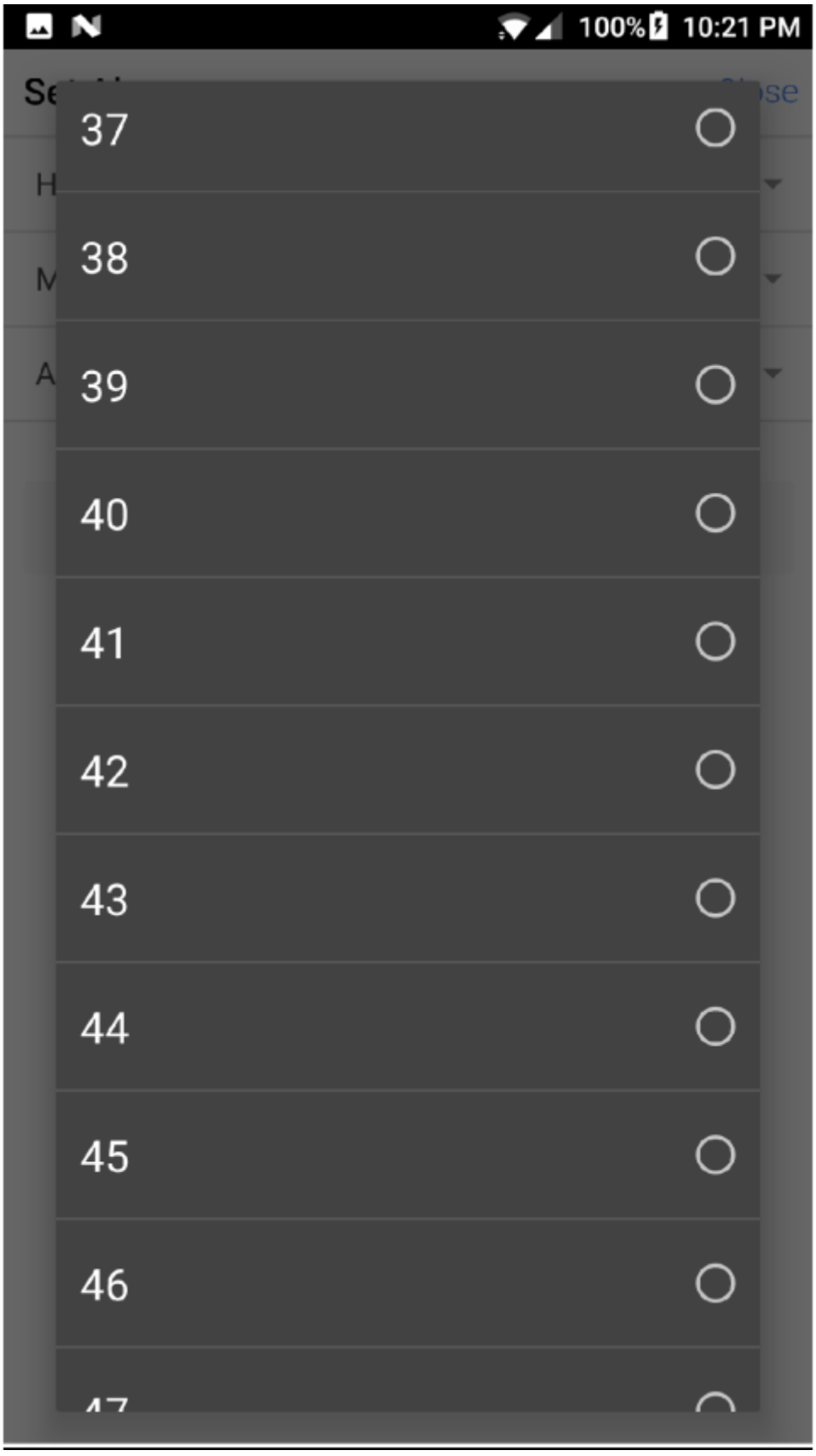


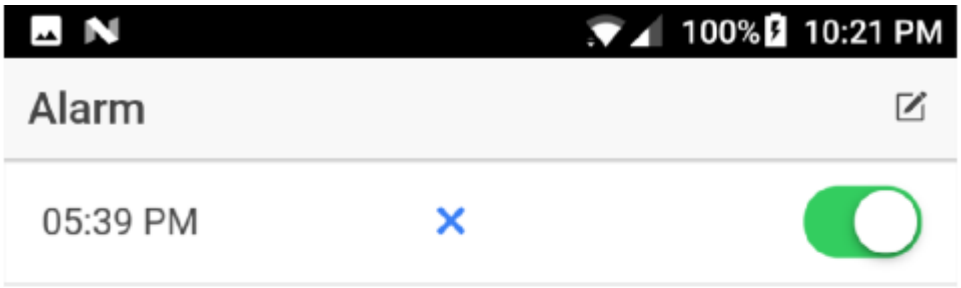

3 Total Story Points
5 Total Issues and Pull Requests
Remaining Issues and Pull Requests
Story points
Completed Issues and Pull Requests
Story points
plan for project increment 2
creating home page for users
design an alarm clock
reminder
documentation

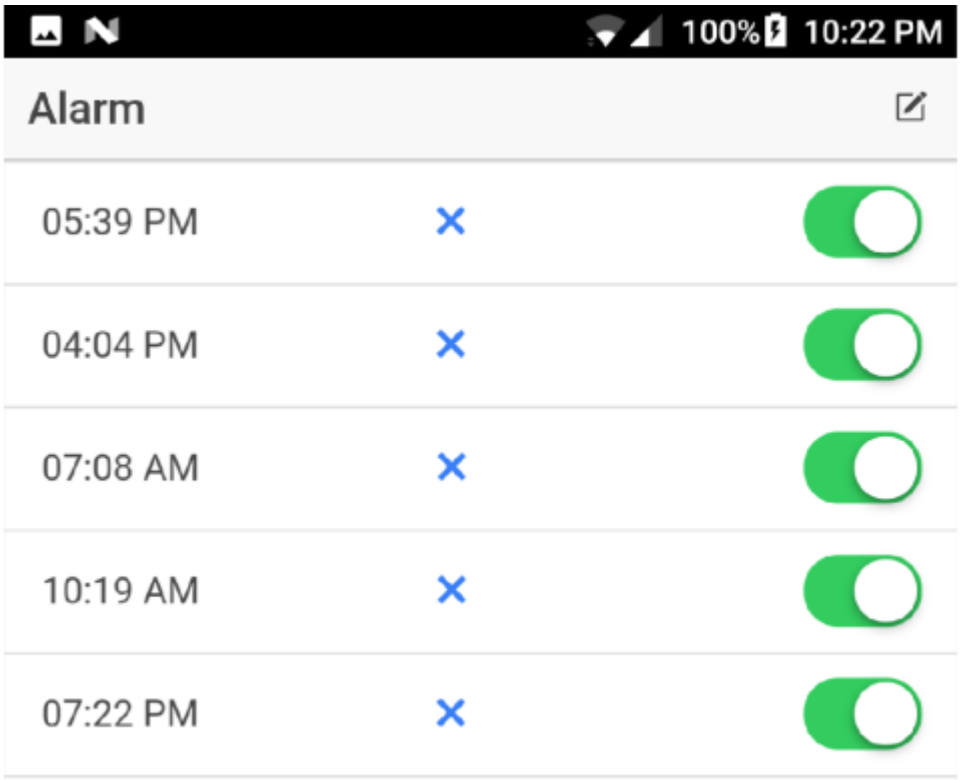
5.2 Project Implementation

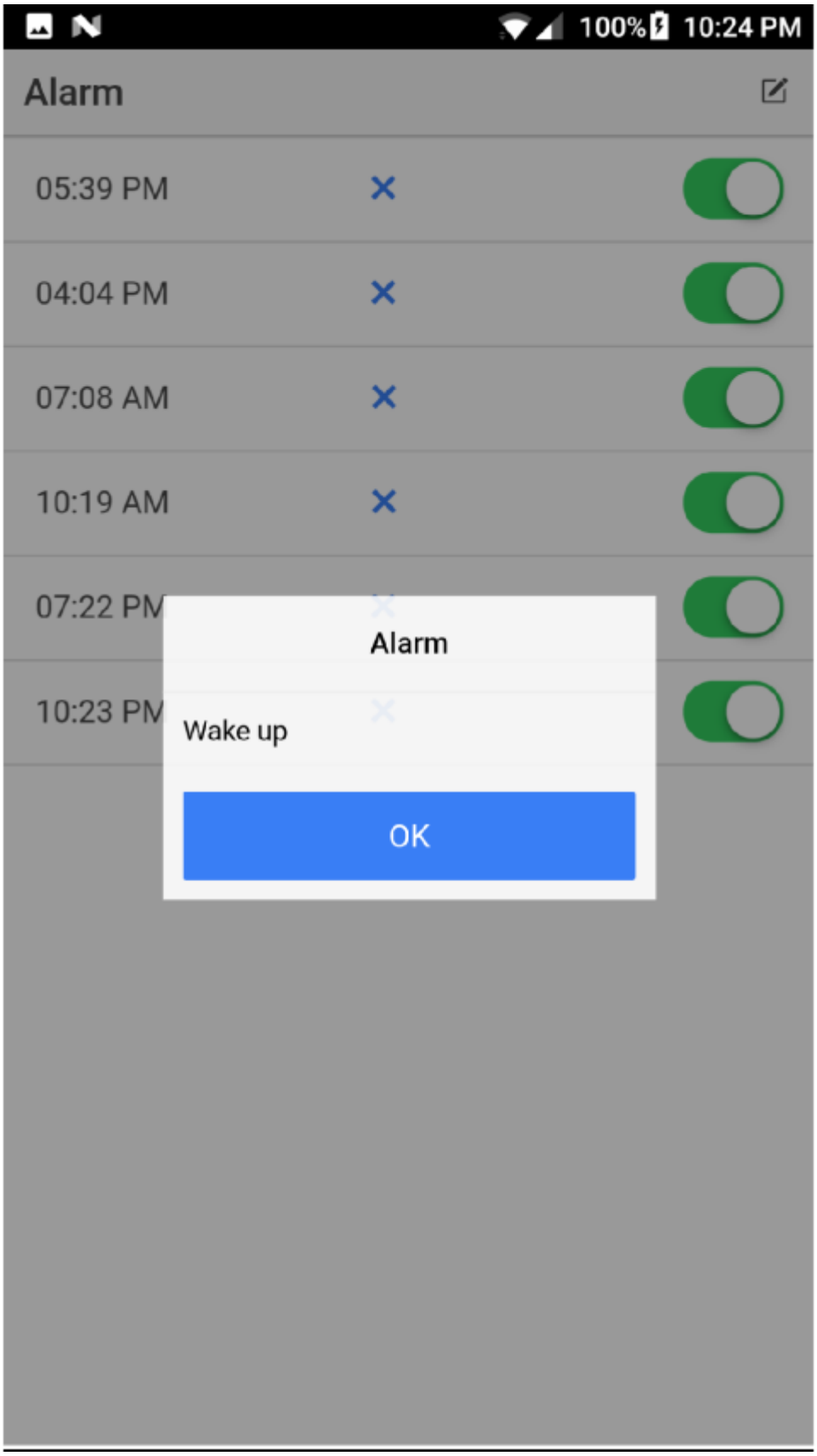


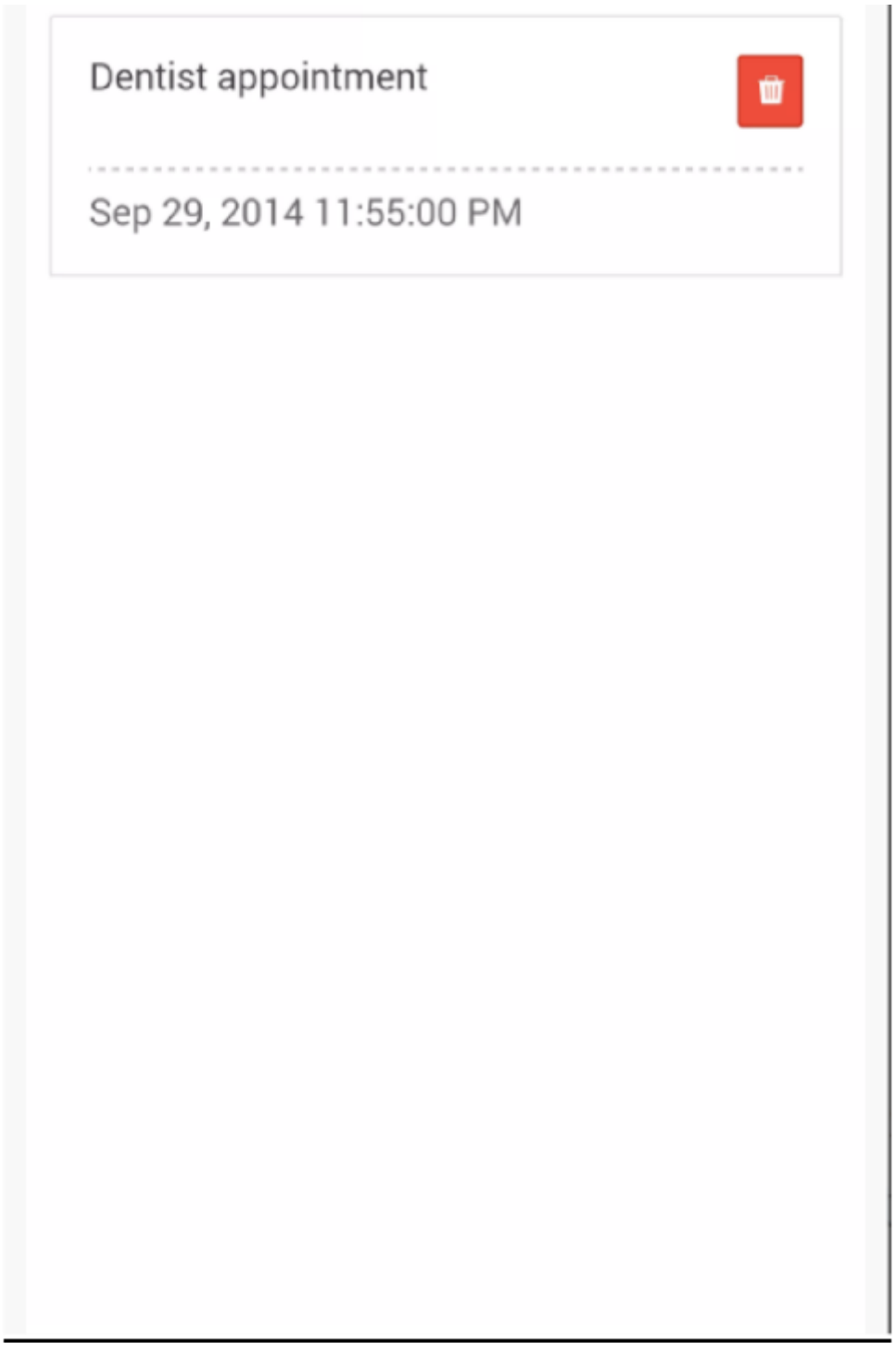

100% 10:21 PM
01
02
03
04
05
06
07
08
09


100% 10:21 PM
37
38
39
40
41
42
43
44
45
46


100% 10:21 PM
Alarm
05:39 PM


100% 10:22 PM
Alarm
05:39 PM
04:04 PM
07:08 AM
10:19 AM
07:22 PM


100% 10:24 PM
Alarm
05:39 PM
04:04 PM
07:08 AM
10:19 AM
07:22 PM
10:23 PM
Alarm
Wake up
OK


Dentist appointment
Sep 29, 2014 11:55:00 PM

5.3 Implementation status report

5.3.1 Technologies Used

- Android SDK
- HTML
- CSS
- Java Script
- Angular JS
- J2EE

5.3.2 Work Completed

- Design and Architecture of the Application
- Login and Registration using Android
- Implemented Alarm
- Implemented the application in Ionic platform
- Started working on Reminder page

5.3.3 Work to be Completed

- Improving the User Interface of the application.
- Collecting the API useful for the application.
- Should work on Reminder page and Notes page
- Improving User Interface of Alarm Page and enabling text to speech

5.4 GitHub URL: https://github.com/swaroop832/ASE-project

5.5 Contributors

- Srinivas Potluri – 25%
- Swaroop Chitiprolu– 25%
- Seshu Sai Prasanna Chennupati – 25%
- Sampath Boddeti – 25%

5.6 Bibliography

http://creately.com/
http://developers.facebook.com/

6. Project increment 3

6.1 Increment status report

6.1.1 Work Done

- Modified the UI and made it more user collaborative
- Successfully embedded Reminder application
- Efficaciously embedded notes application
- Modified the login page so that user can also login using their google and Facebook accounts.
- Effectively entrenched puzzles into alarm app

6.1.2 Technologies used

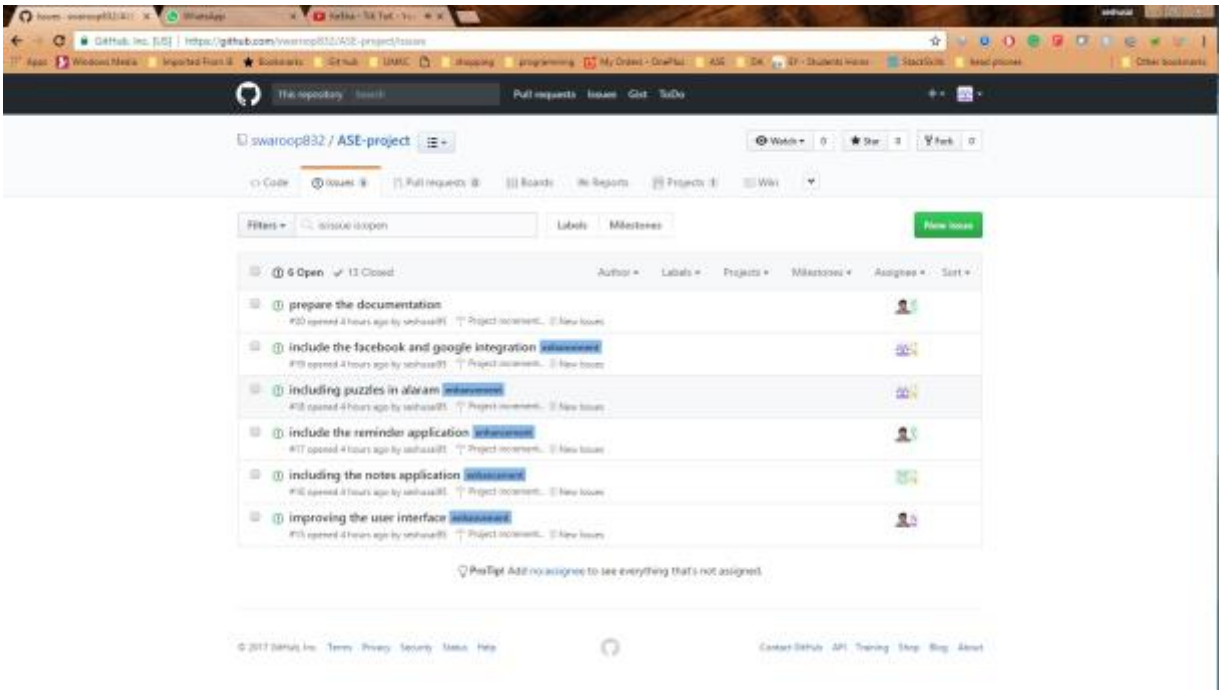
- Android SDK
- HTML
- CSS
- Java Script
- Angular JS
- J2EE

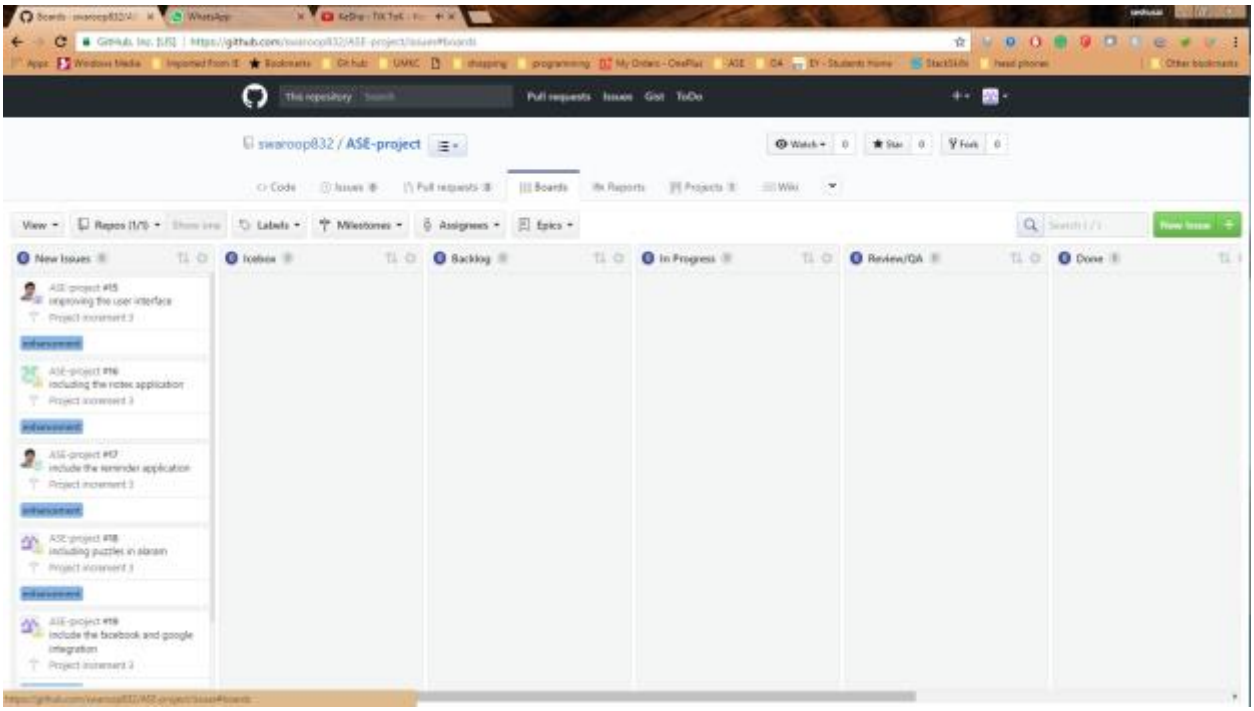
6.1.3 GitHub URL: https://github.com/swaroop832/ASE-project

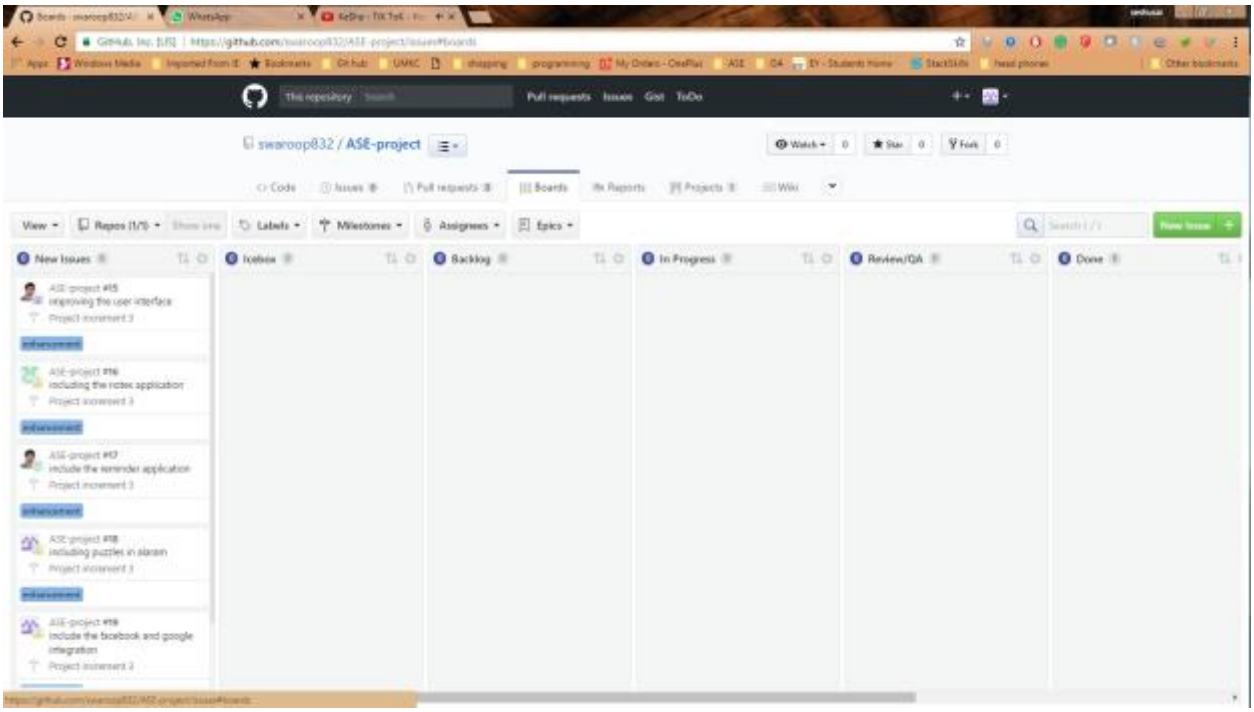
6.1.4 Contributors:

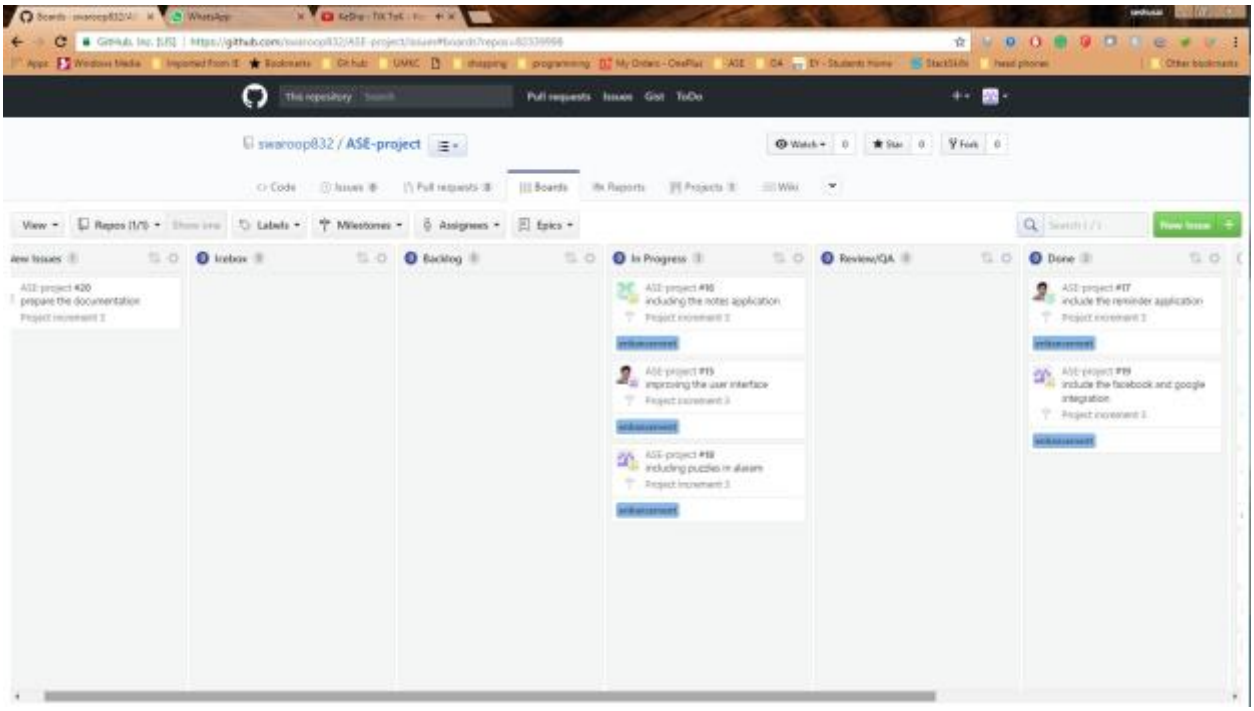
- Srinivas Potluri – 25%
- Swaroop Chitiprolu– 25%
- Seshu Sai Prasanna Chennupati – 25%
- Sampath Boddeti – 25

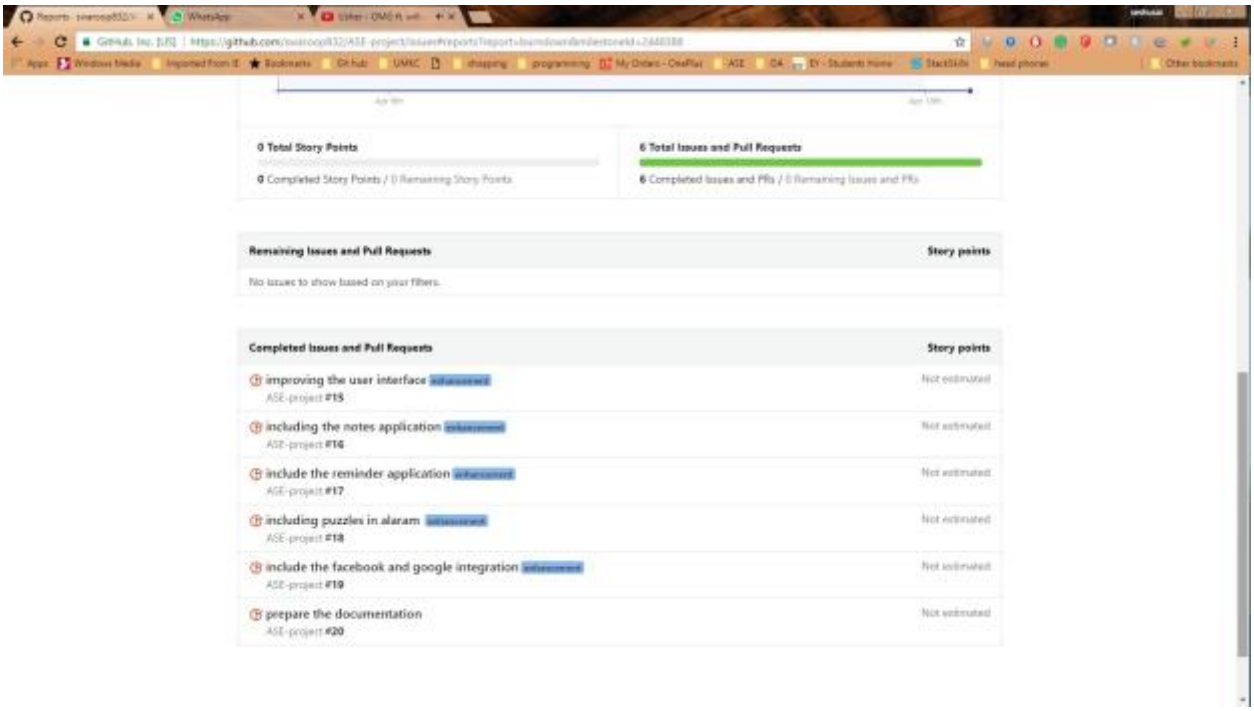
6.2 GitHub
6.2.1 Issues




swaroop832 / ASE-project
New Issues
Icebox
Backlog
In Progress
Review/QA
Done


swaroop832 / ASE-project
New Issues
Icebox
Backlog
In Progress
Review/QA
Done

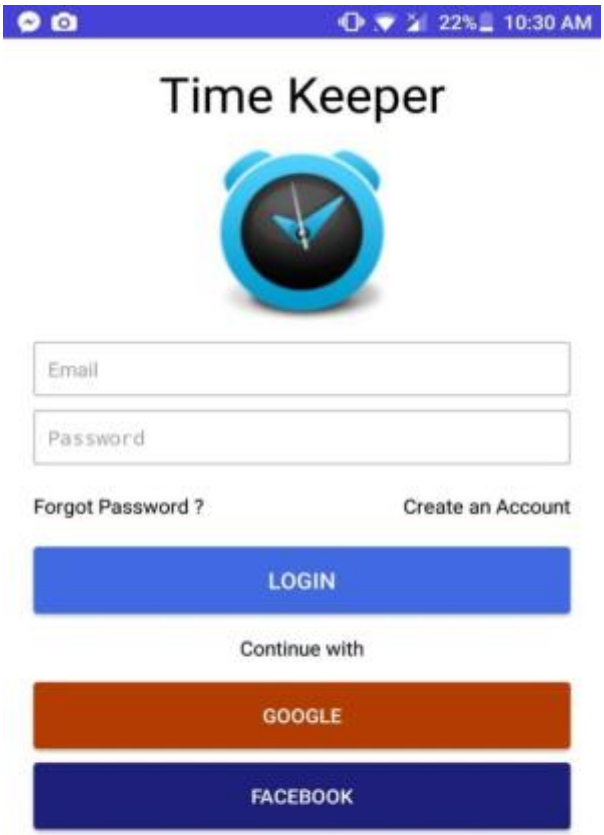

swaroop832 / ASE-project
Pull requests
Issues
Gist
ToDo
Boards
Backlog
In Progress
Review/QA
Done
prepare the documentation
including the notes application
improving the user interface
including puzzles in alaram
include the reminder application
include the facebook and google integration

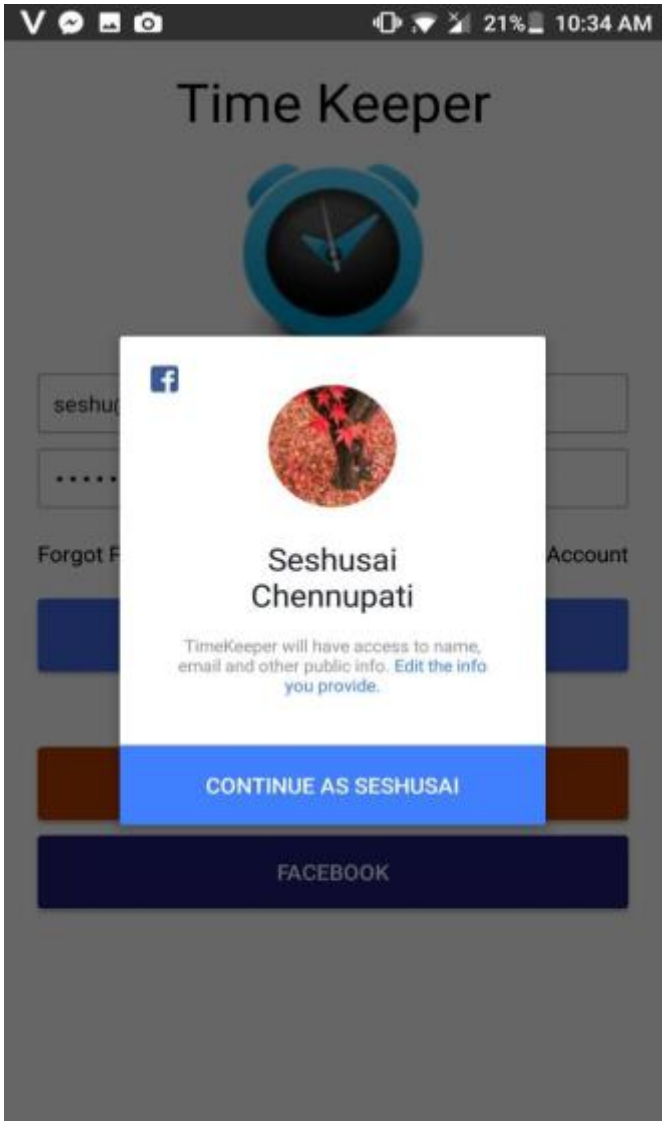

0 Total Story Points
0 Completed Story Points / 0 Remaining Story Points
6 Total Issues and Pull Requests
6 Completed Issues and PRs / 0 Remaining Issues and PRs
Remaining Issues and Pull Requests
Story points
No issues to show based on your filters.
Completed Issues and Pull Requests
Story points
improving the user interface
ASE-project #15
including the notes application
ASE-project #16
include the reminder application
ASE-project #17
including puzzles in alaram
ASE-project #18
include the facebook and google integration
ASE-project #19
prepare the documentation
ASE-project #20

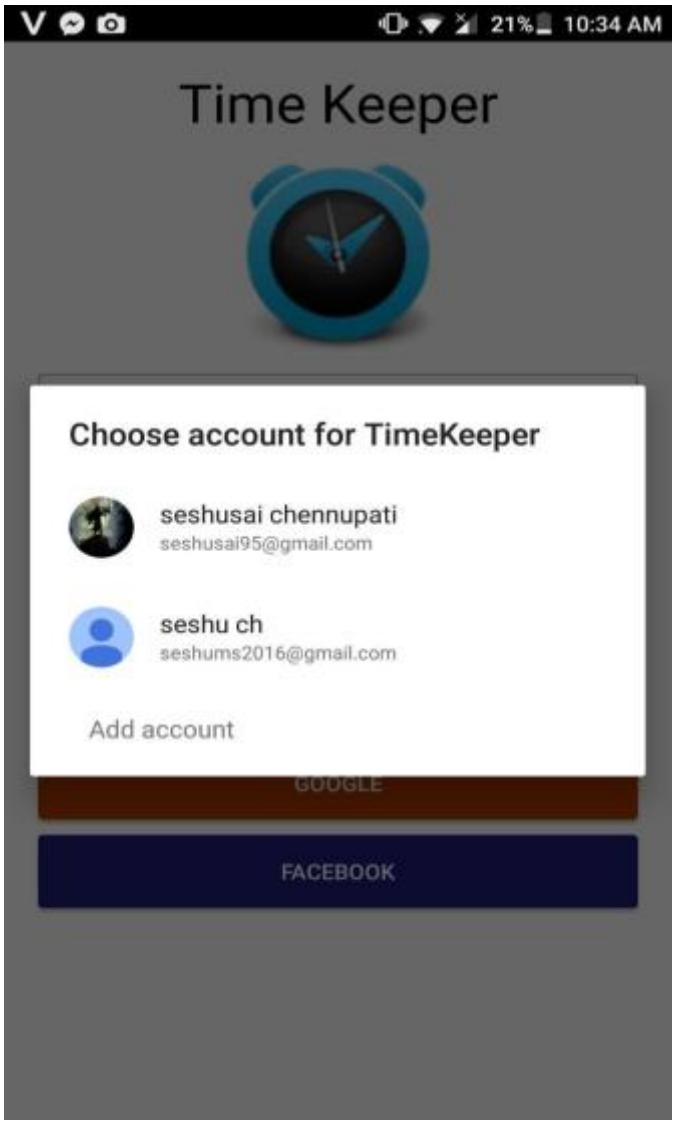
6.3 Project Implementation

We improved the user interface and included some extra login features

21% 10:32 AM
Time Keeper
seshu@gmail.com
Forgot Password ?
Create an Account
LOGIN
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123


22% 10:30 AM
Time Keeper
Email
Password
Forgot Password ?
Create an Account
LOGIN
Continue with
GOOGLE
FACEBOOK

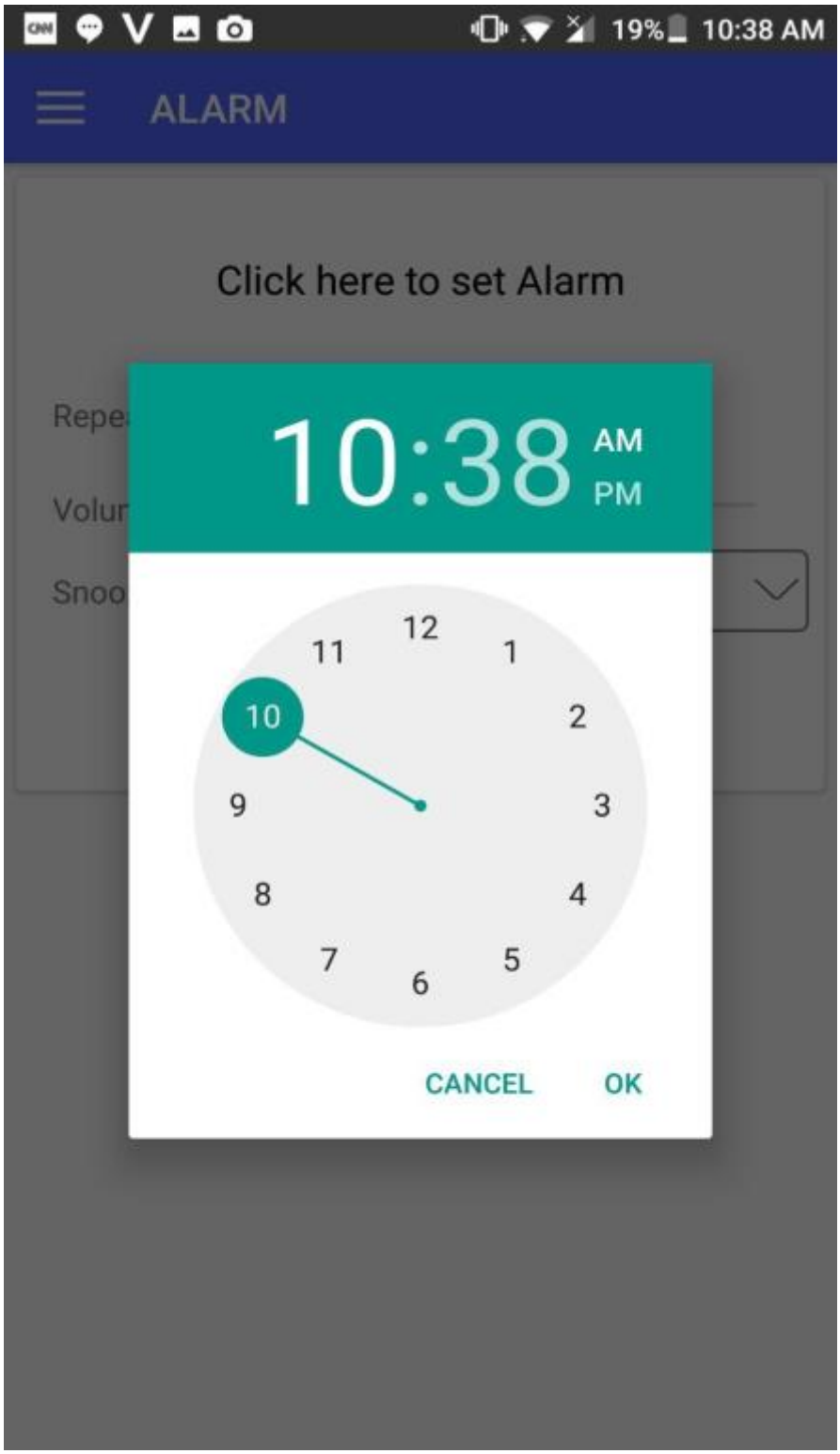

21% 10:34 AM
Time Keeper
Seshusai Chennupati
TimeKeeper will have access to name, email and other public info. Edit the info you provide.
CONTINUE AS SESHUSAI
FACEBOOK

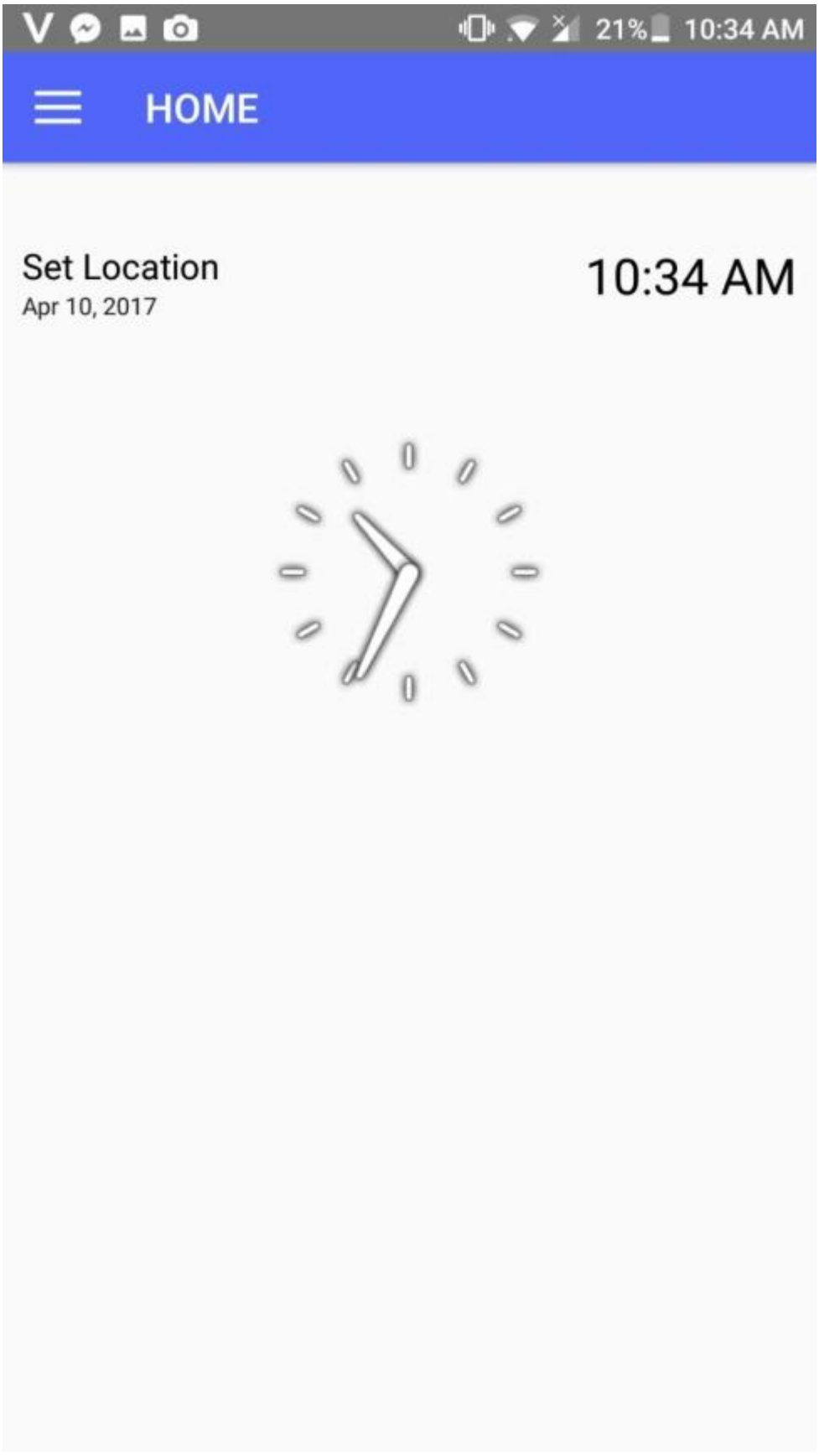

21% 10:34 AM
Time Keeper
Choose account for TimeKeeper
seshusai chennupati
seshusai95@gmail.com
seshu ch
seshums2016@gmail.com
Add account
FACEBOOK

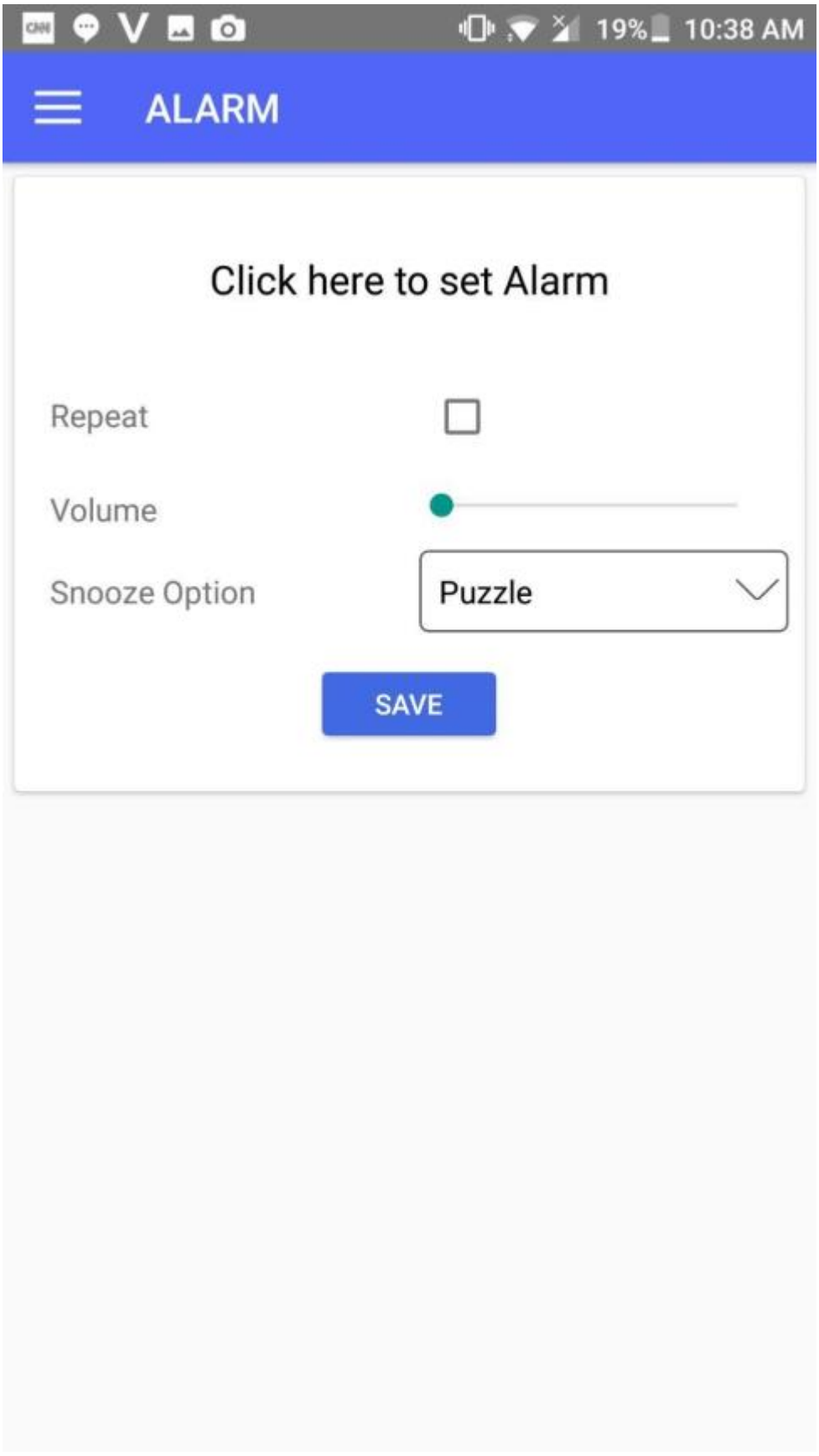
22% 10:31 AM
Sign Up
seshu
seshu@gmail.com
SIGN UP
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123

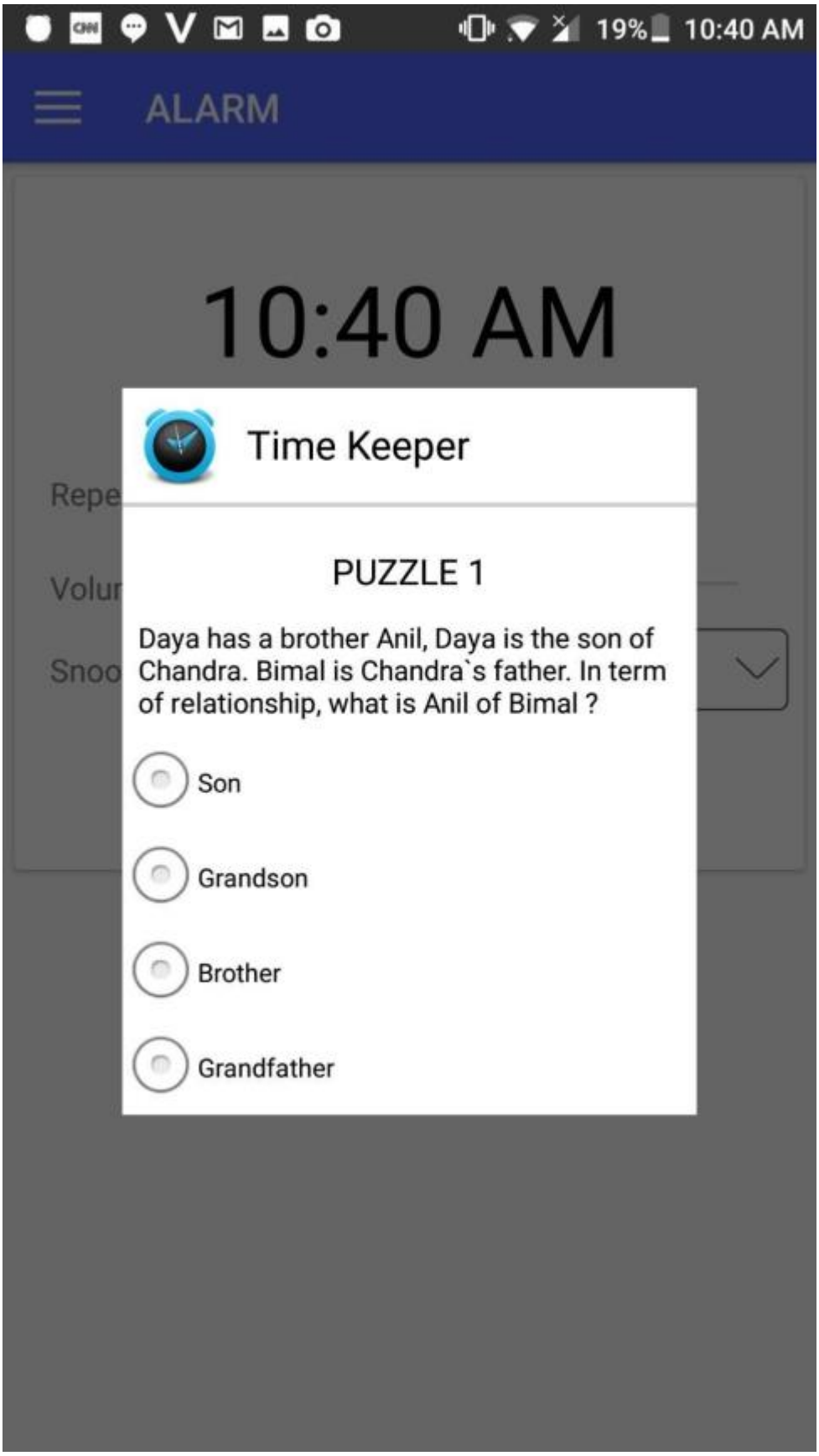
22% 10:31 AM
Sign Up
seshu
seshu@gmail.com
SIGN UP
Login

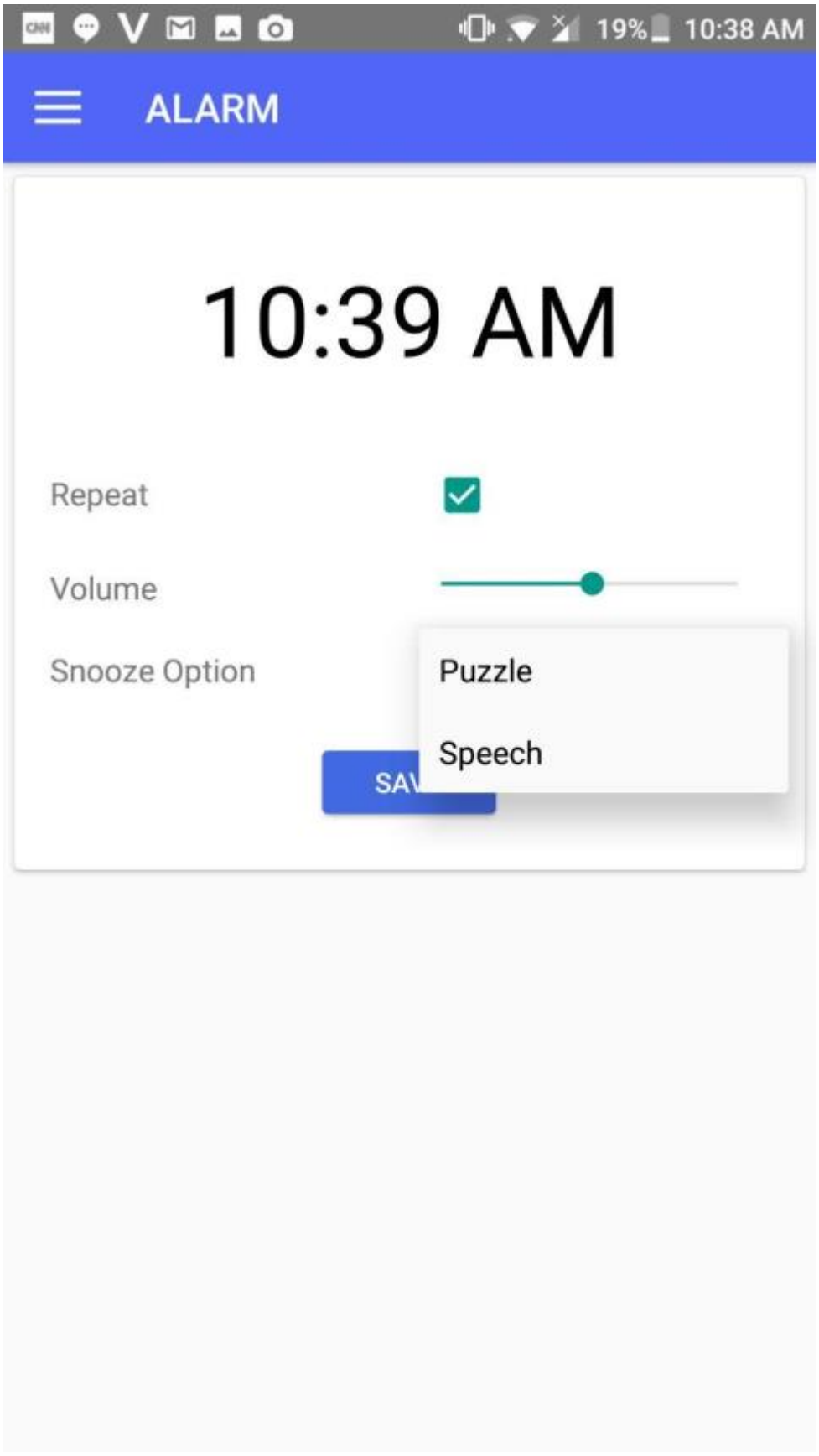
We improvised the alarm features so that it is user intractable

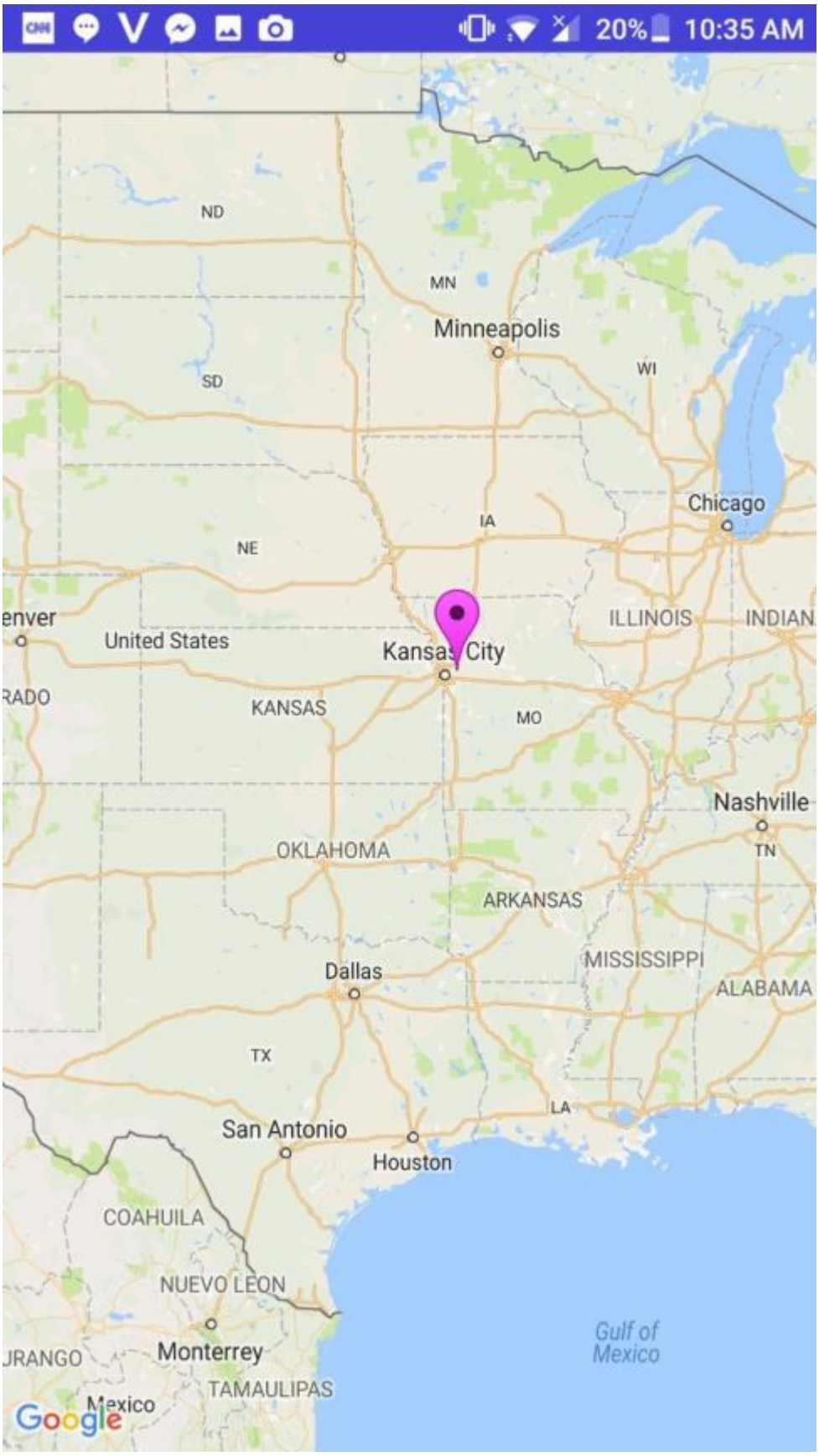


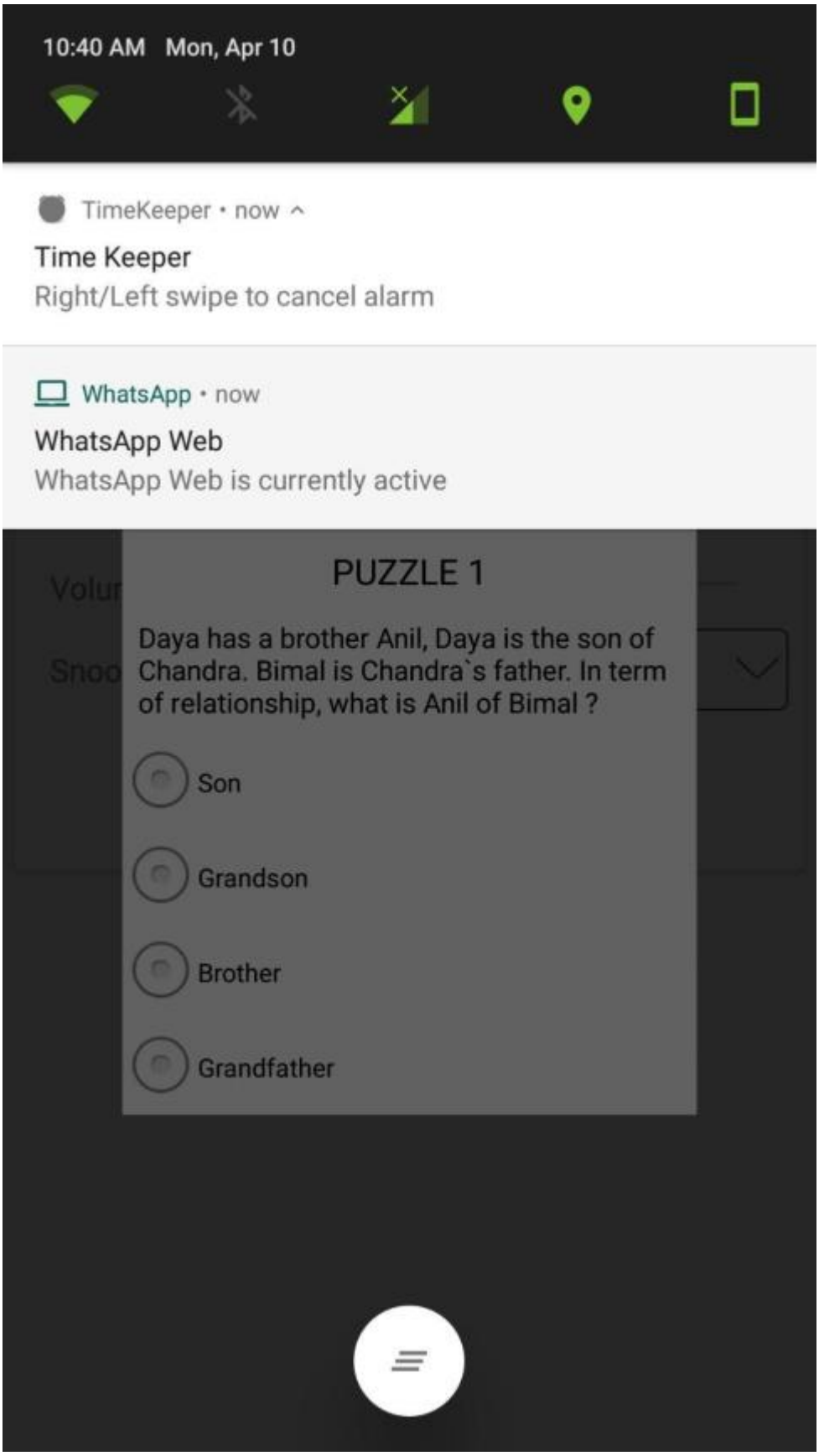

21% 10:34 AM
HOME
Set Location
Apr 10, 2017
10:34 AM

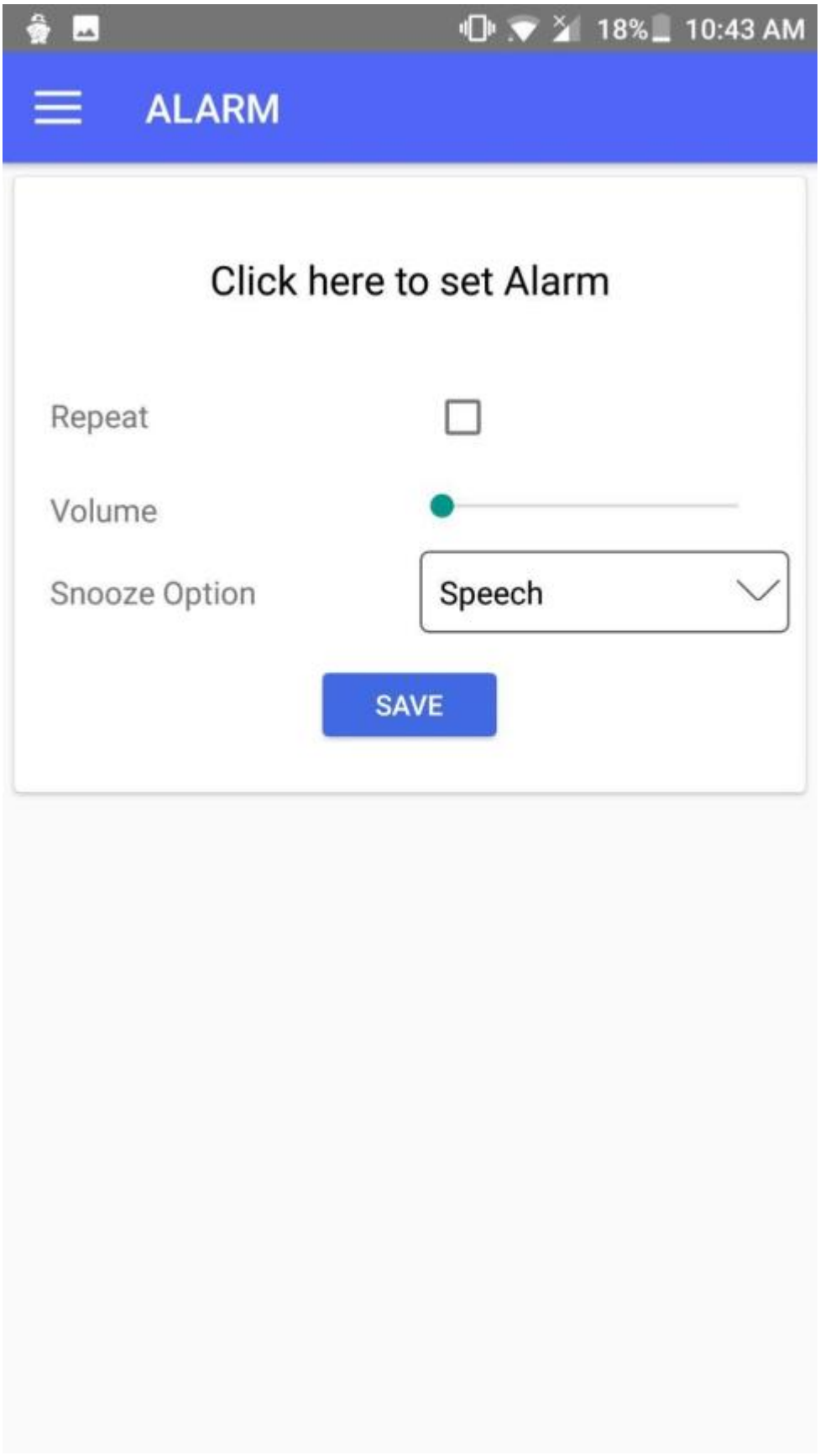

19%
10:38 AM
ALARM
Click here to set Alarm
Repeat
Volume
Snooze Option
Puzzle
SAVE


19% 10:40 AM
ALARM
10:40 AM
Repe
Volur
Snoo
Time Keeper
PUZZLE 1
Daya has a brother Anil, Daya is the son of Chandra. Bimal is Chandra`s father. In term of relationship, what is Anil of Bimal ?
Son
Grandson
Brother
Grandfather

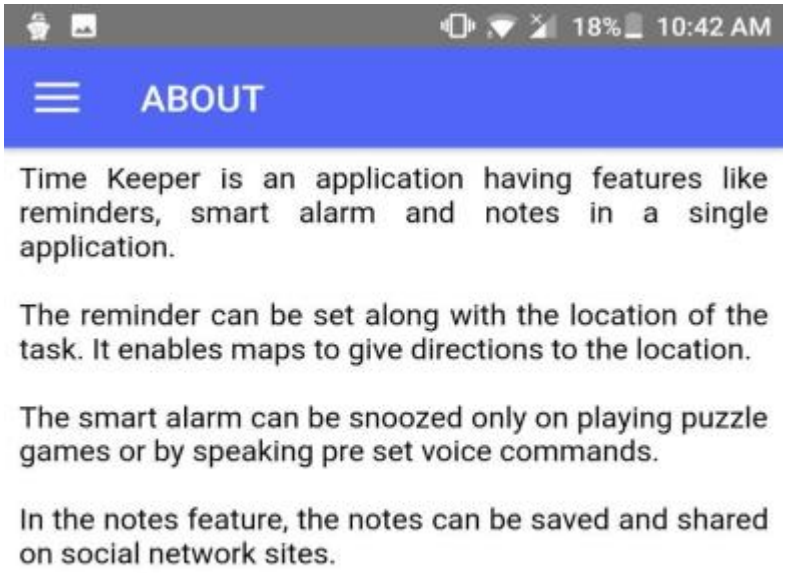

19% 10:38 AM
ALARM
10:39 AM
Repeat
Volume
Snooze Option
Puzzle
Speech
SAV

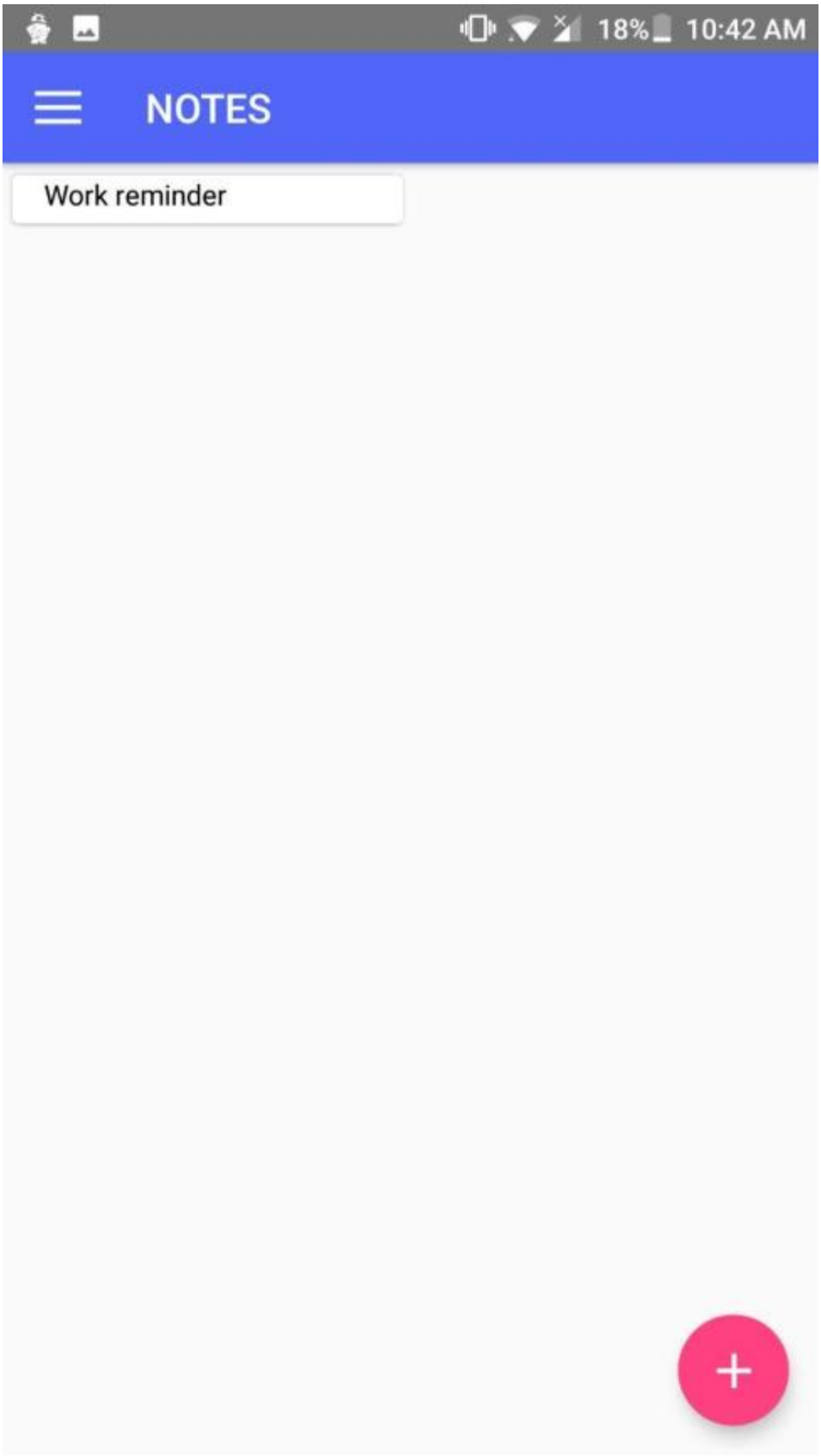

20% 10:35 AM
ND
MN
Minneapolis
SD
WI
Chicago
IA
NE
ILLINOIS
INDIAN
United States
Kansas City
KANSAS
MO
Nashville
TN
OKLAHOMA
ARKANSAS
MISSISSIPPI
Dallas
ALABAMA
TX
LA
San Antonio
Houston
COAHUILA
NUEVO LEON
Monterrey
TAMAULIPAS
Gulf of Mexico
Google

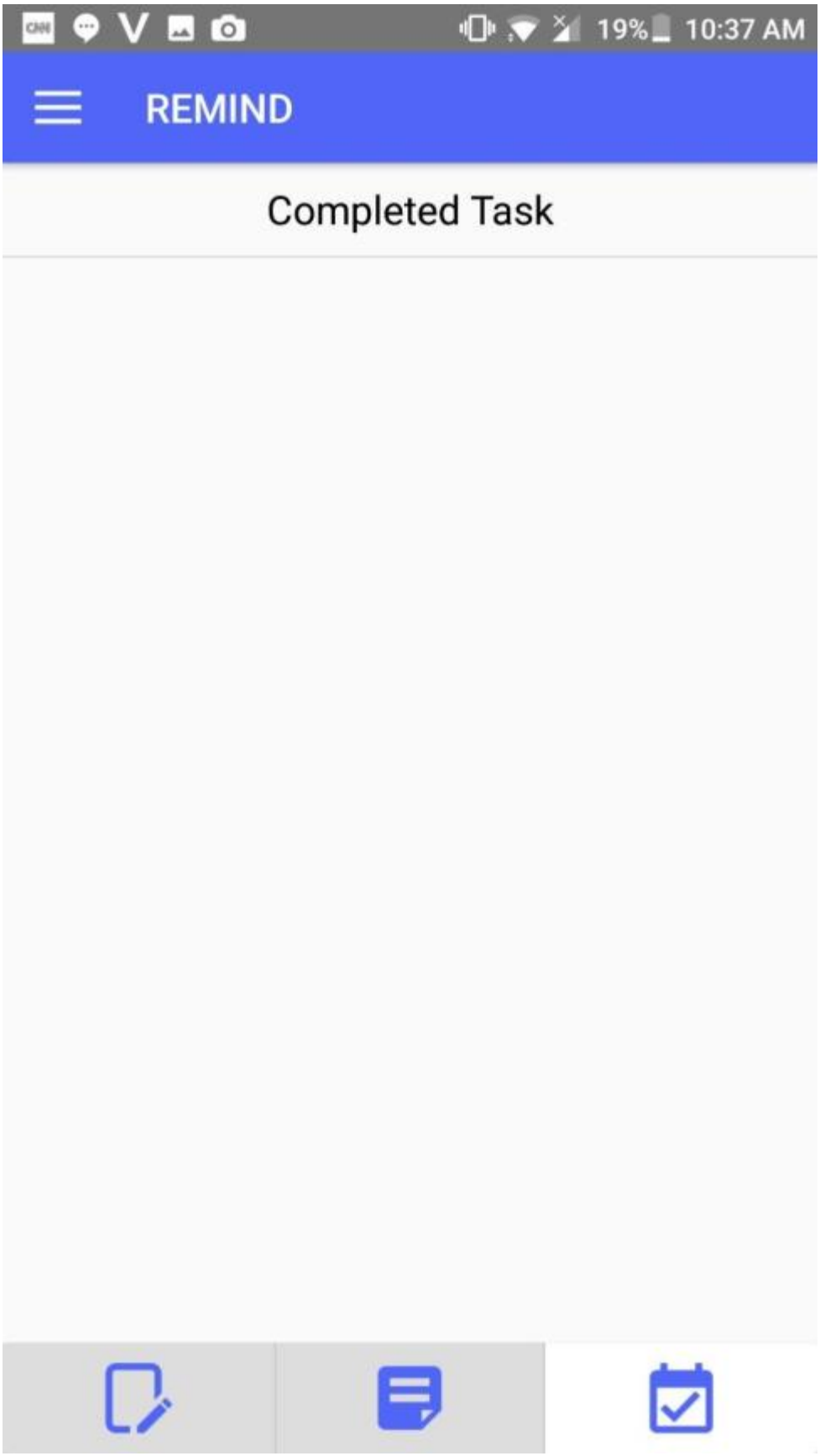

10:40 AM Mon, Apr 10
TimeKeeper • now
Time Keeper
Right/Left swipe to cancel alarm
WhatsApp • now
WhatsApp Web
WhatsApp Web is currently active
PUZZLE 1
Daya has a brother Anil, Daya is the son of Chandra. Bimal is Chandra`s father. In term of relationship, what is Anil of Bimal ?
Son
Grandson
Brother
Grandfather

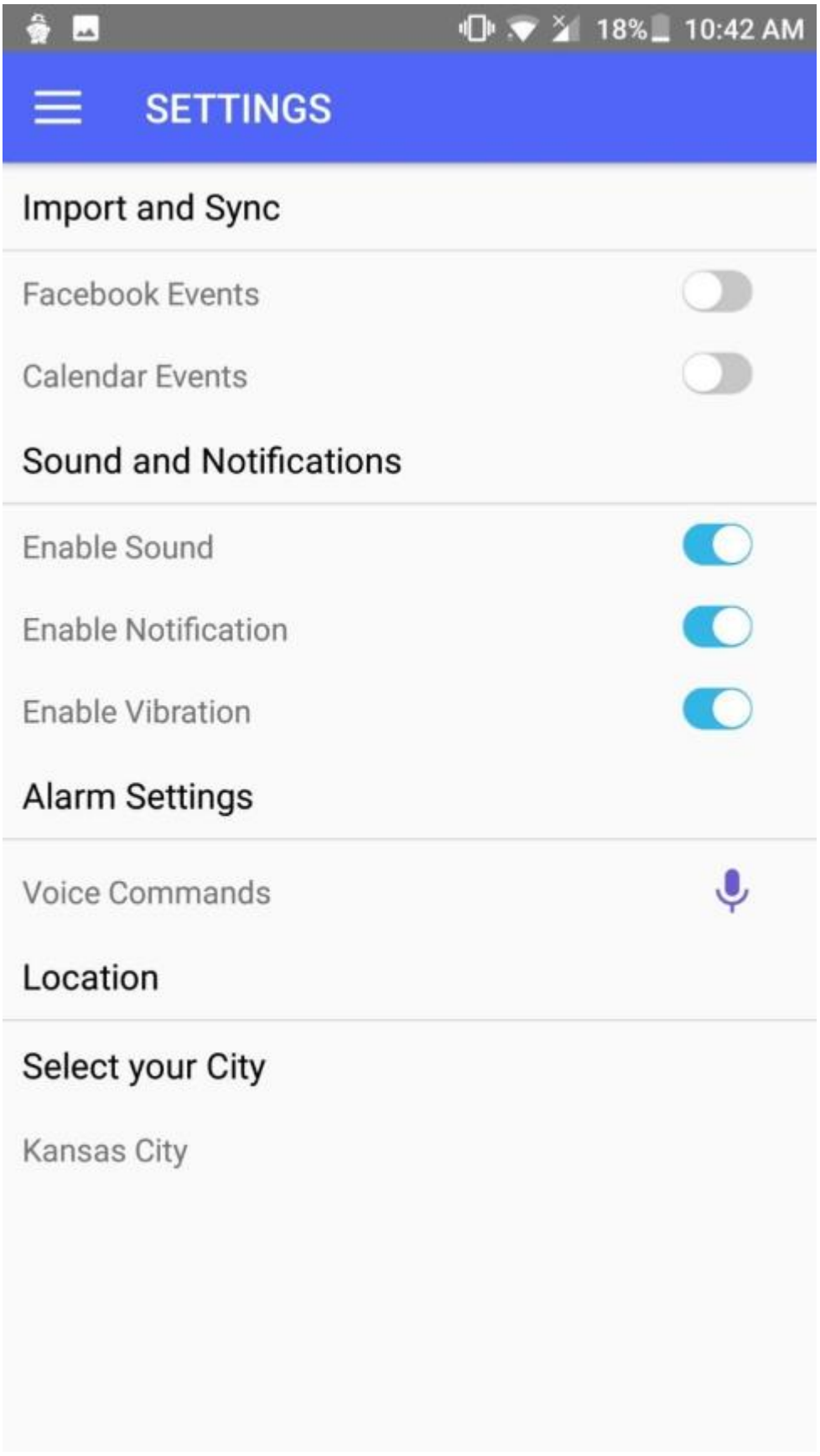

18% 10:43 AM
ALARM
Click here to set Alarm
Repeat
Volume
Snooze Option
Speech
SAVE

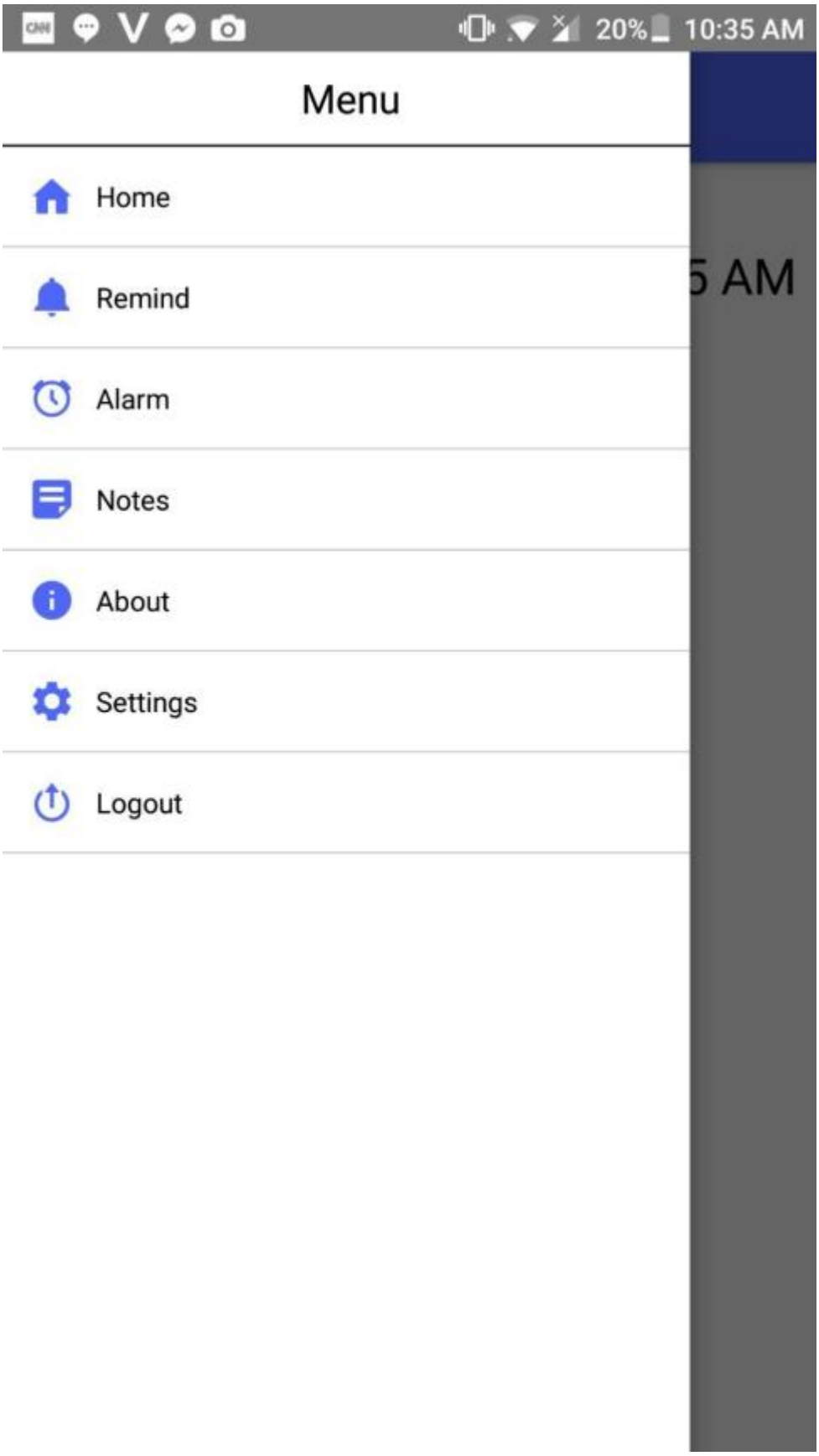
We embedded notes and reminder applications into our app

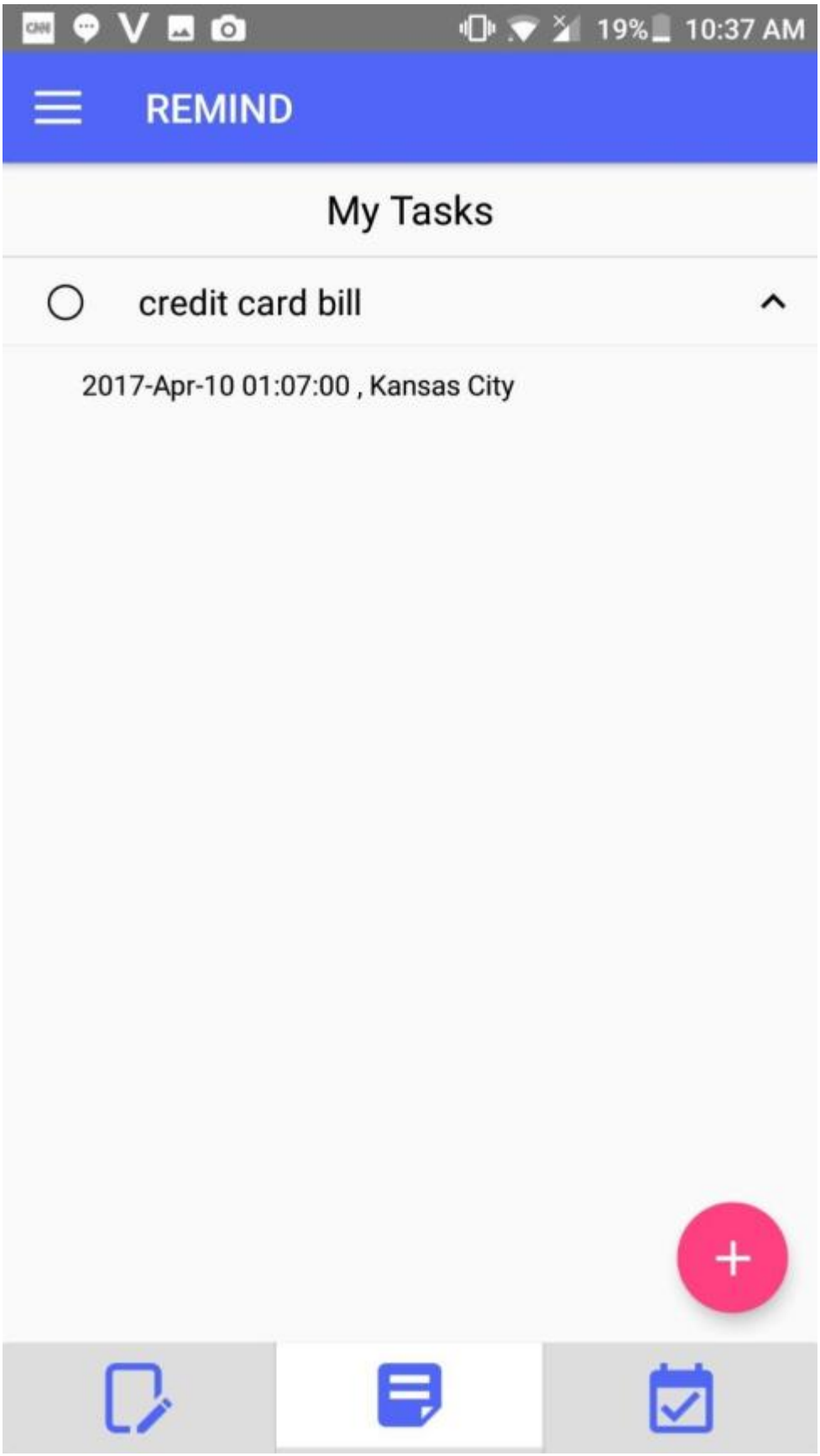


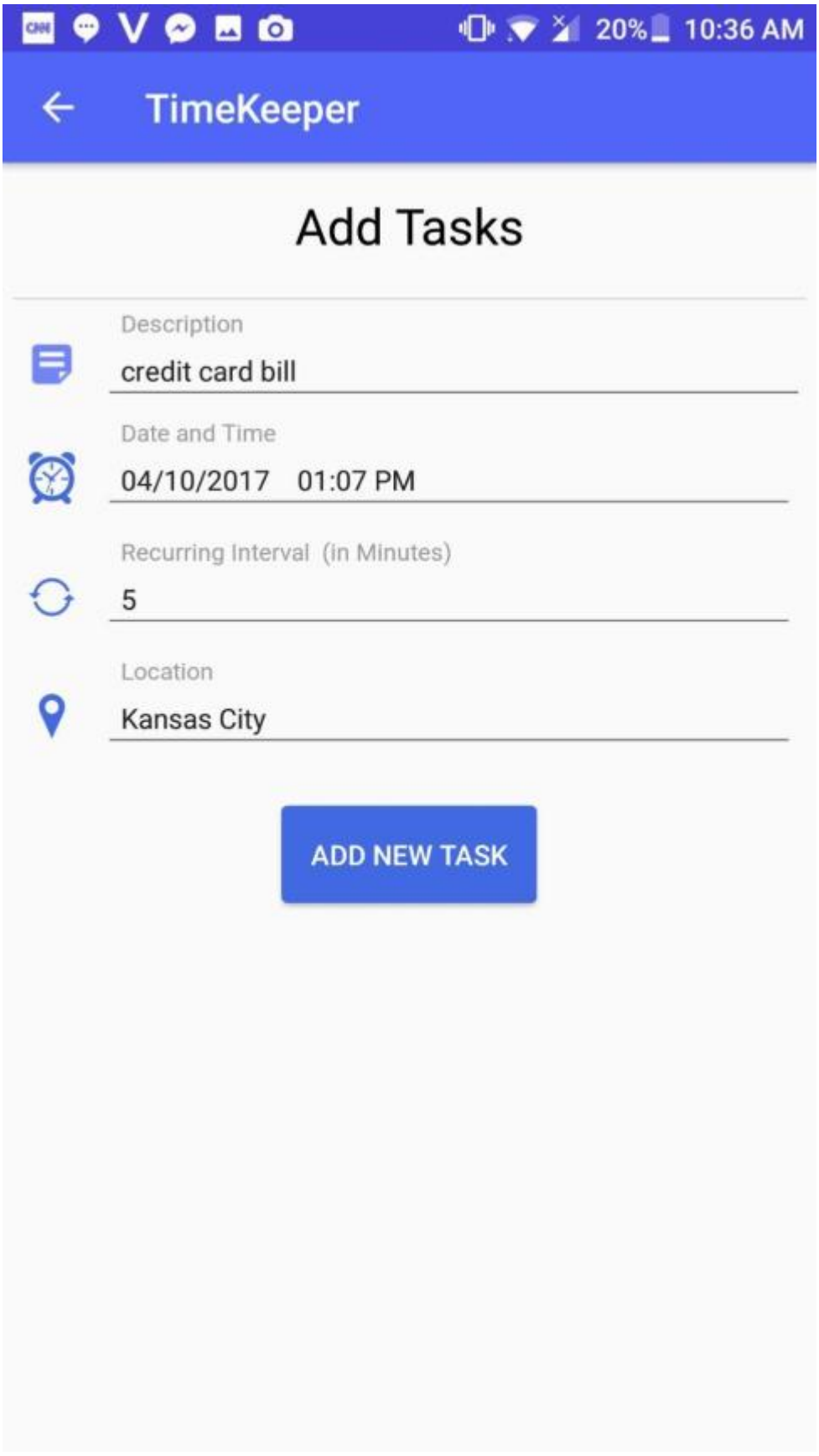

18%
10:42 AM
NOTES
Work reminder

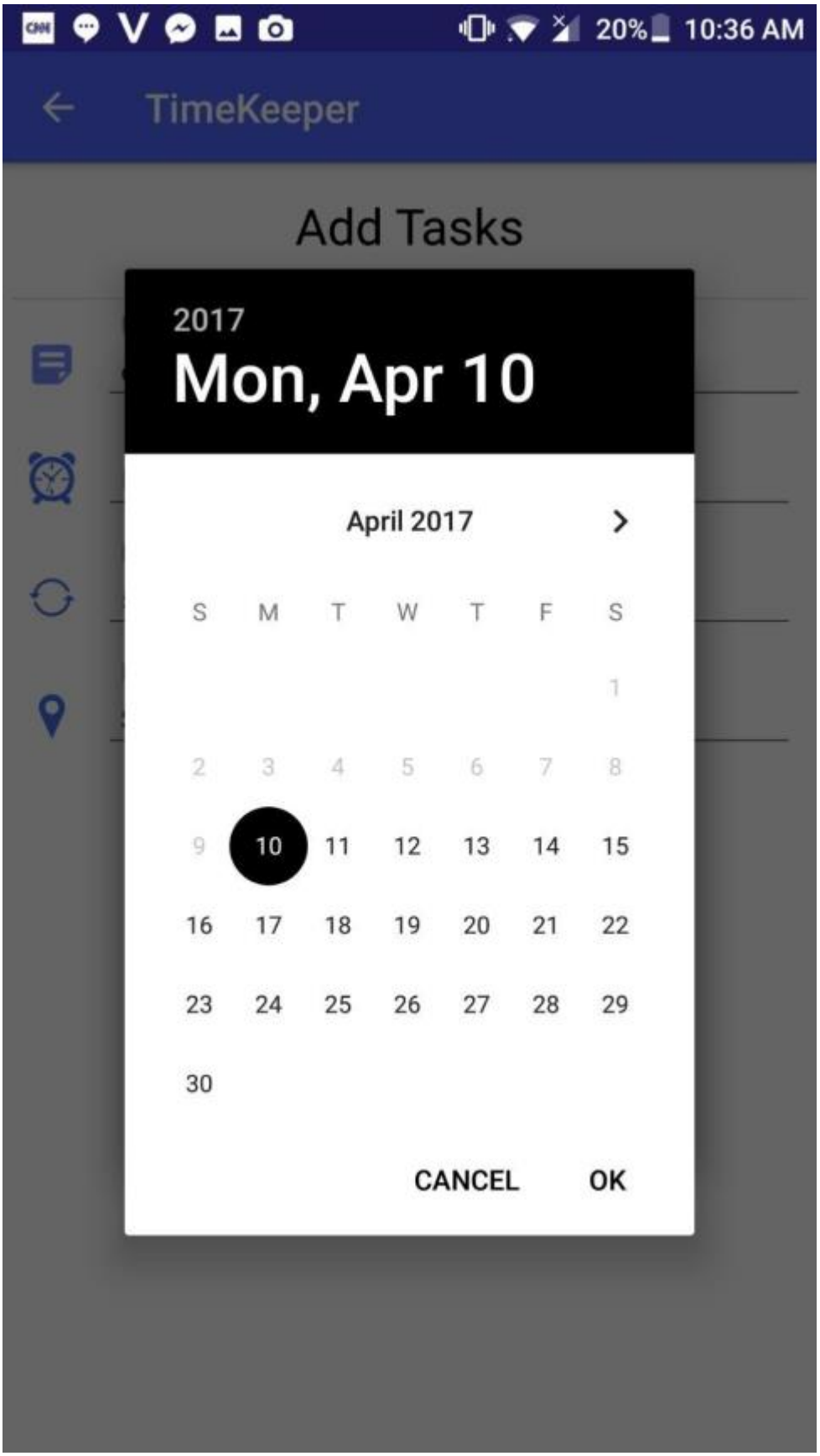

19%
10:37 AM
REMIND
Completed Task


18% 10:42 AM
SETTINGS
Import and Sync
Facebook Events
Calendar Events
Sound and Notifications
Enable Sound
Enable Notification
Enable Vibration
Alarm Settings
Voice Commands
Location
Select your City
Kansas City


20%
10:35 AM
Menu
Home
Remind
Alarm
Notes
About
Settings
Logout
5 AM


19%
10:37 AM
REMIND
My Tasks
credit card bill
2017-Apr-10 01:07:00 , Kansas City


20% 10:36 AM
TimeKeeper
Add Tasks
Description
credit card bill
Date and Time
04/10/2017 01:07 PM
Recurring Interval (in Minutes)
5
Location
Kansas City
ADD NEW TASK


20% 10:36 AM
TimeKeeper
Add Tasks
2017
Mon, Apr 10
April 2017
S M T W T F S
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
CANCEL
OK

6.4 User stories

I am	It's Tenacity.	Its Job
User.	**Remind** Set a Remainder using time and date and remind interval options.	Notifies the user about his reminders by popping up a message.
	Alarm Sets the user desired alarm using puzzles or voice commands.	Waking up user at the exact time and date he opted to wake up.
	Notes To take some important notes from user.	Helping the user to remind what he/she is supposed to be remembered.

6.5 Testing

Cases for Login and signup pages

Cases Types	Explanation for Test cases	Predictable Results	Unaffected Result
Login	Please enter Invalid Username & Password	It is Error	It is Failure
Login	Enter Valid Username & Valid Password	Logged into Home Page	It is Success
Signup	Email ID should end with @mail.com	Invalid Mail	It is Success
Signup	Password column and Confirm Password column should match	Registers shall be Directed to Login Page	It is Success
Alarm	Please enter a date, time and type of alarm desired	Alarm will ring when time comes.	It is Success
Reminder	Please enter a reminder, date and time when you need to be reminded.	A message pops up showing the reminder.	It is success
Notes	Please enter some notes which you couldn't remember.	You can share this notes with any of your Facebook and whatsapp friends.	It is success.

6.6 Work to be done

- Should work on voice commands
- Should work on changing the time zones successfully
- Should work on trying to make app accessible through web interface

6.7 Contributors

- Srinivas Potluri – 25%
- Swaroop Chitiprolu– 25%
- Seshu Sai Prasanna Chennupati – 25%
- Sampath Boddeti – 25%

6.8 Bibliography

1.http://creately.com/

2.http://developers.facebook.com/

3. http://developers.google.com/

7. PROJECT INCREMENT- 4

7.1 Work done

- Improved the efficiency of the application
- Increased the responsiveness of the application when being used by the user and made sure that there is no lag in the application
- Embedded voice commands into the application which can be used by the user to stop the alarm

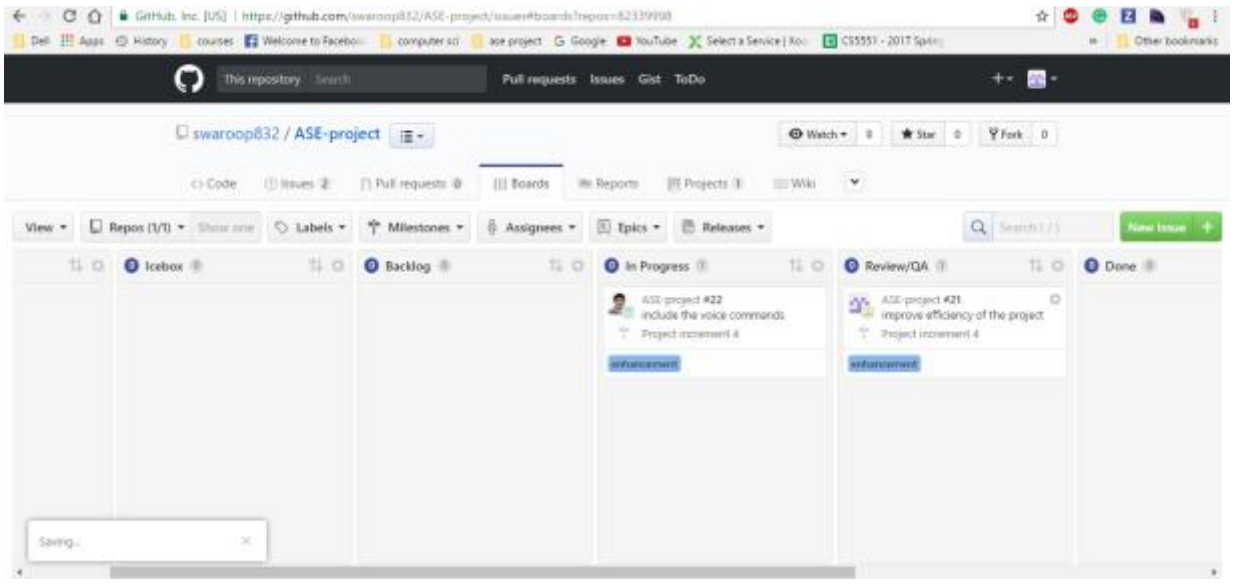
7.2 Technologies used

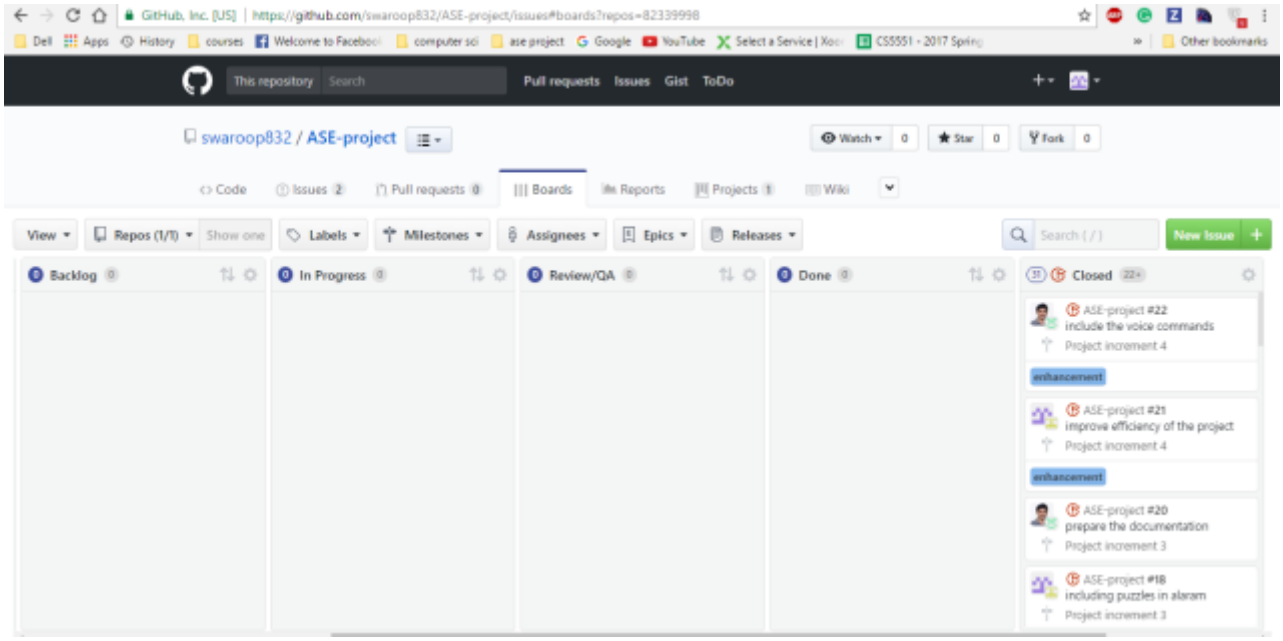
- Android SDK
- HTML
- CSS
- Java Script
- Angular JS
- J2EE

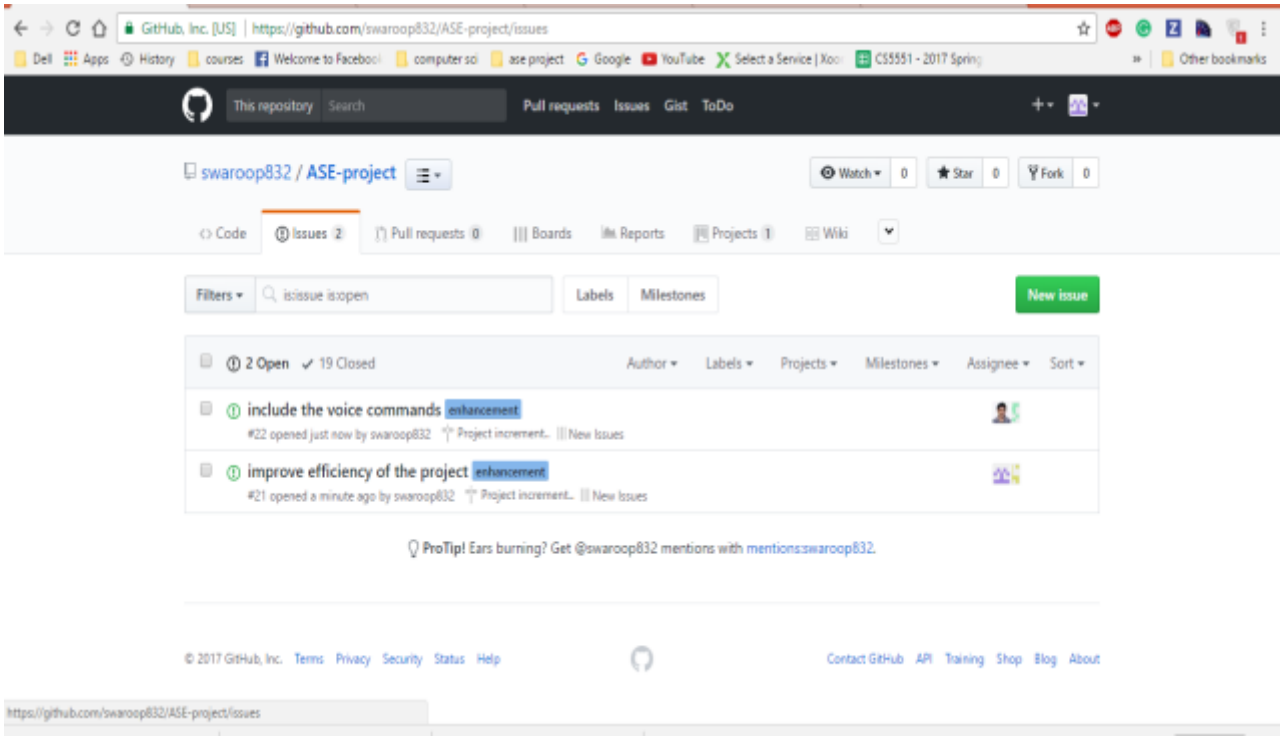
7.3 GitHub URL: https://github.com/swaroop832/ASE-project

7.4 GitHub
7.4.1 Issues and milestones

We faced some issues while implementing the voice commands. We faced some issues while imbedding the notes into the application. We had some tough time while improving the user interface of the application.



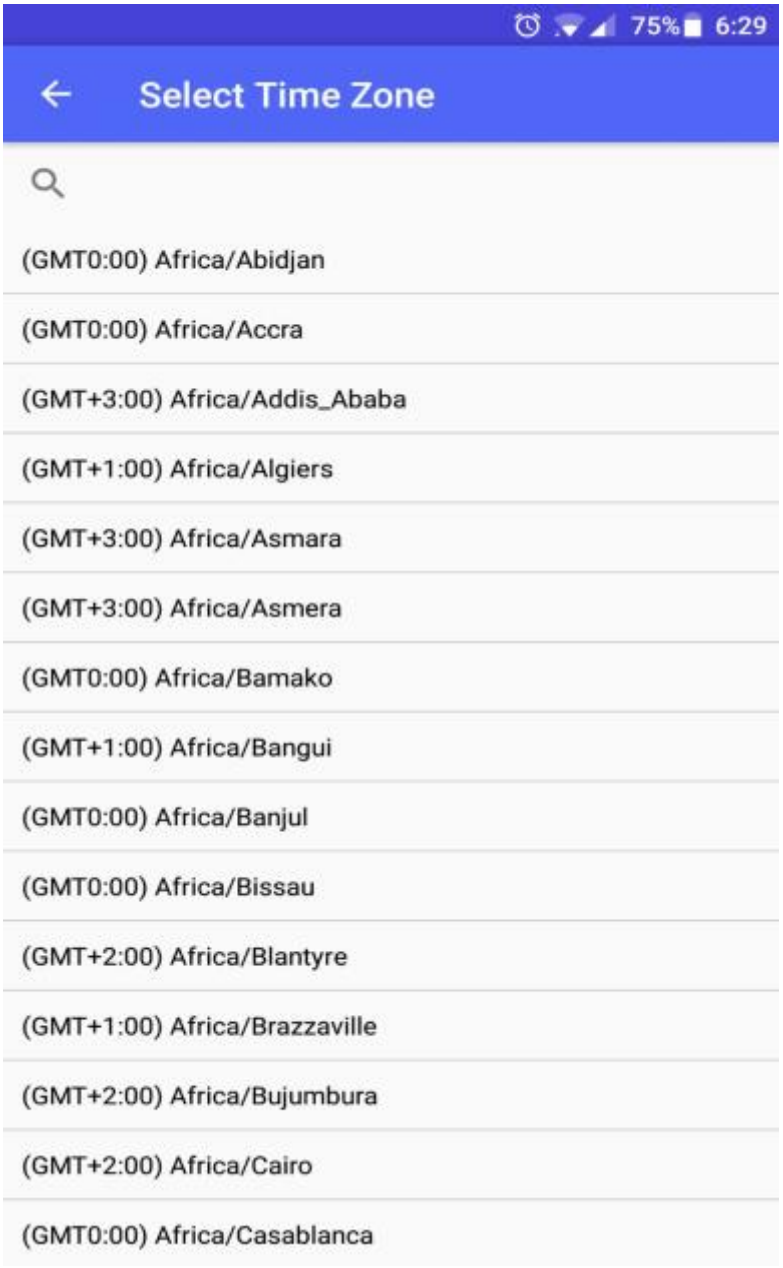




7.5 Improvements we made in the application

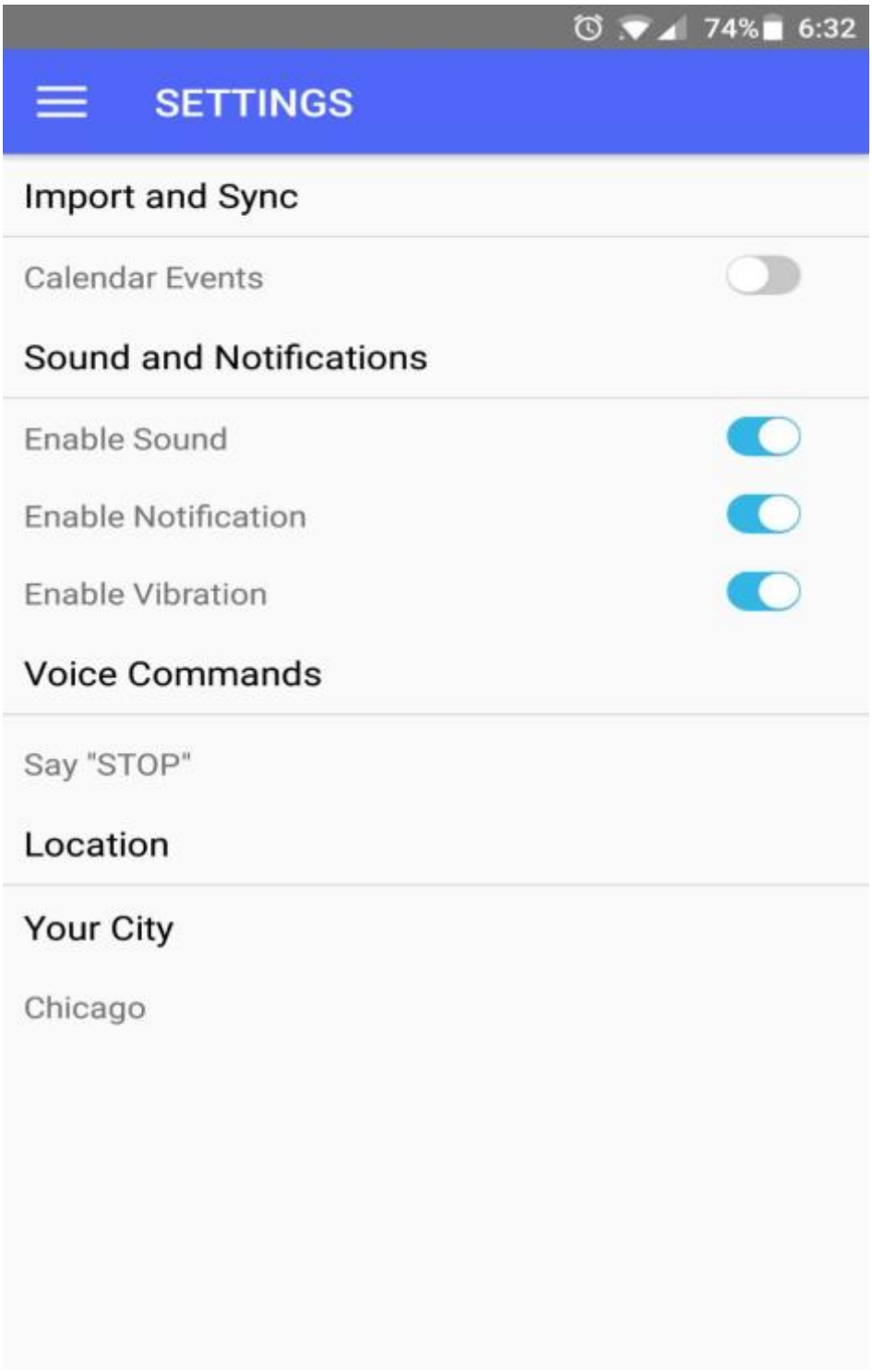
Imbedded different time zones in the app: A user can the time zone he wants to be displayed in the home screen.

In the below screen shot we can see different time zones, a user can select any time zone he desires.

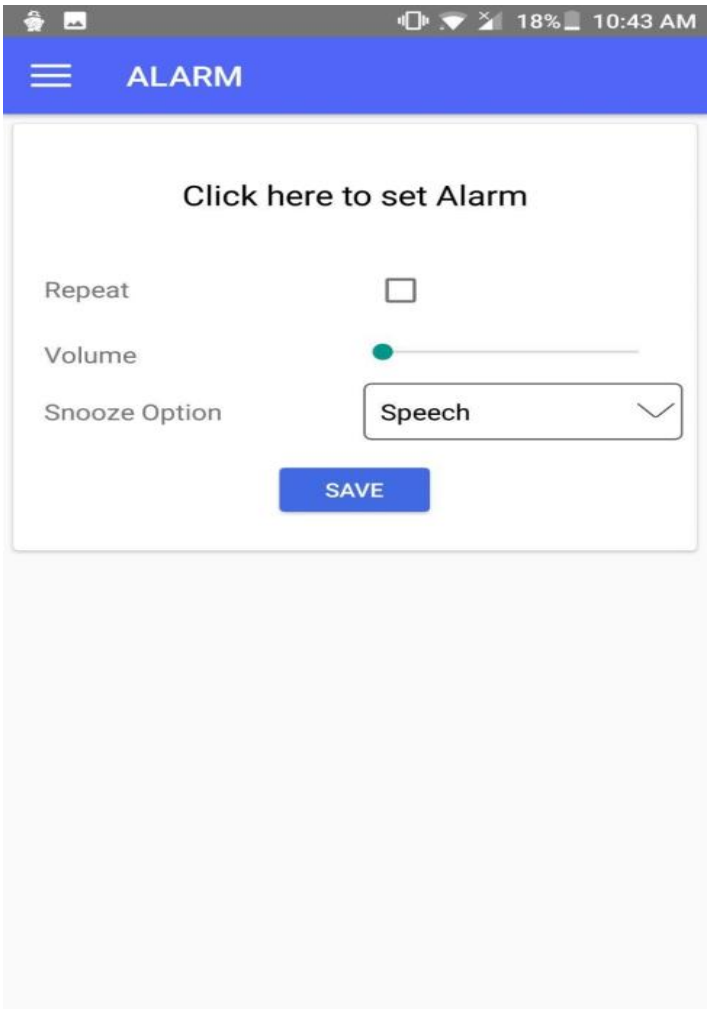

75% 6:29
Select Time Zone
(GMT0:00) Africa/Abidjan
(GMT0:00) Africa/Accra
(GMT+3:00) Africa/Addis_Ababa
(GMT+1:00) Africa/Algiers
(GMT+3:00) Africa/Asmara
(GMT+3:00) Africa/Asmera
(GMT0:00) Africa/Bamako
(GMT+1:00) Africa/Bangui
(GMT0:00) Africa/Banjul
(GMT0:00) Africa/Bissau
(GMT+2:00) Africa/Blantyre
(GMT+1:00) Africa/Brazzaville
(GMT+2:00) Africa/Bujumbura
(GMT+2:00) Africa/Cairo
(GMT0:00) Africa/Casablanca

The below screen shot shows the home screen in the application once we login. It has a clock date and time zone.

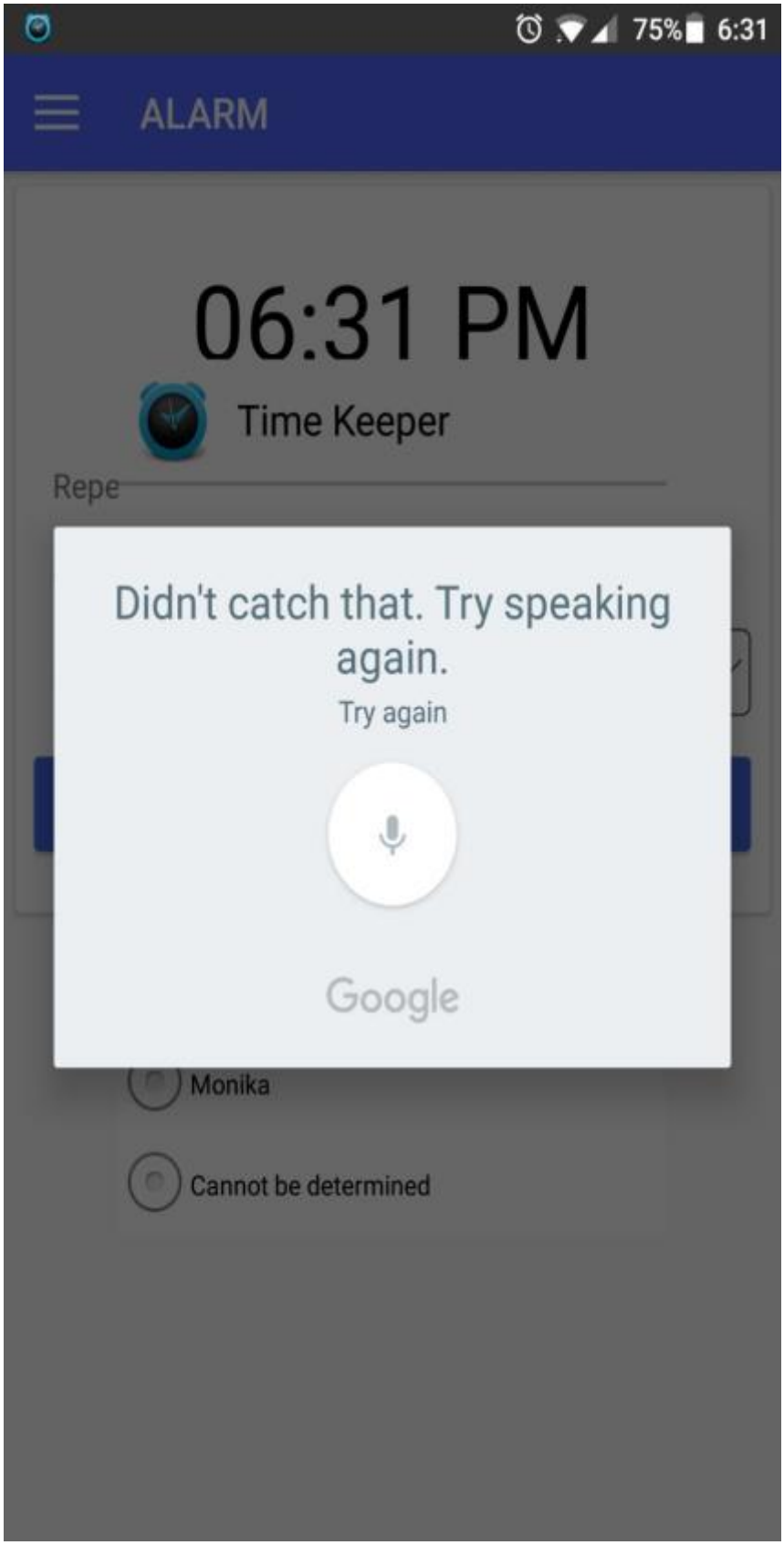
Included settings like import and sync, enabling sound and notifications, including voice commands, showing your location.

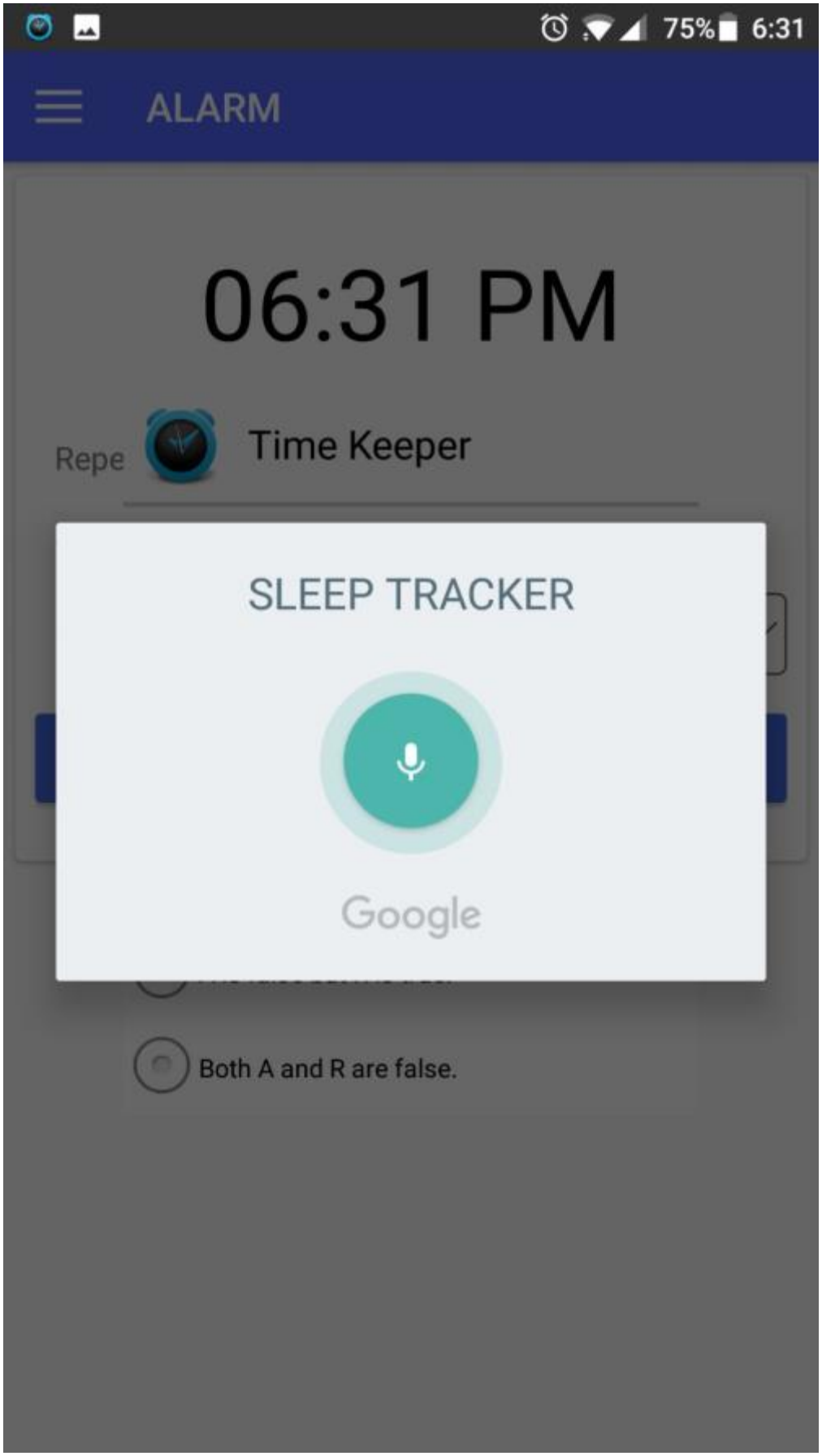


Imbedded voice commands into the application where user can stop the alarm by just saying the command like stop.



We used google API to implement voice commands into the app.




75% 6:31
ALARM
06:31 PM
Repe
Time Keeper
SLEEP TRACKER
Google
Both A and R are false.

7.6 Contributors

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- Swaroop Chitiprolu– 25%
- Seshu Sai Prasanna Chennupati – 25%
- Sampath Boddeti – 25%

7.7 Bibliography

http://creately.com/

http://developers.facebook.com/

http://developers.google.com/

http://www.stackoverflow.com/

8. YouTube URL:

https://www.youtube.com/watch?v=rIgnx8wfRxY

9. Project Deployment

Everything about the project introduction and User interface stuff is mentioned above, the only thing I want to mention in this is the bugs.

As per our knowledge our application is facing some issues while using the speech commands, which means at some times it is not recognizing the voices. Apart from that everything was good.

10.Project Management

We believe that our project requirements which are mentioned in the earlier stage of the project plan has been met, we made some changes to our project after the project proposal which we completed them to the full extent. Agile process helped us a lot as we are a team who are creating an application where work will be done in partial status so it helped us to divide and integrate the work that was done between us. We are happy to do the work in Agile in the same way as we did now but we hope we can contribute in an efficient way. Yes, we are glad to say that we completed our tasks before the scheduled time. As our application consists of multiple tasks, so we stick our plans and divided those tasks between which helps to do their task on their own and while integrating the work we

shared our ideas in which that particular task can be improved and later modified it. We didn't face any problems within team, we enjoyed working with each other and completed our task. In the initial stages we had problems in meeting to think on which basis we can deliver our project better as everyone are having different classes and lot of other work, it took a while for us to stick to a particular plan we feel that consumed a lot of time for us considering that if we could plan much faster we can deliver our work better. If this was real world project, we might provide a lot of options related to fitness and newsfeed in the same application itself. The one recommendation I can give is that Plan the work you have to do in a proper way and give yourself some time to discuss regarding the project with your team it really helps a lot.

11. Presentation Slides

Sharing Screenshot
A link to your screenshot has been copied to your clipboard.
Close
Show in Finder

Problem Statement

- In the present world, Time plays important role in everyone's life. So, this application comes with a notes, reminder and alarm for different types of purposes.

Slide 2 | Presenter view | Exit

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Architecture

Sharing Screenshot
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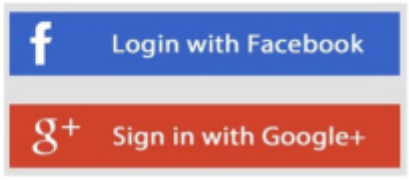
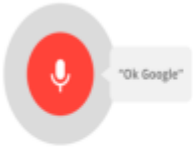
Show in Finder

Technologies and API's used





Sharing Screenshot
A link to your screenshot has been copied to your clipboard.
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Show in Finder

Features

- Time Keeper is an application having different features like reminder, alarm and notes in a single application.

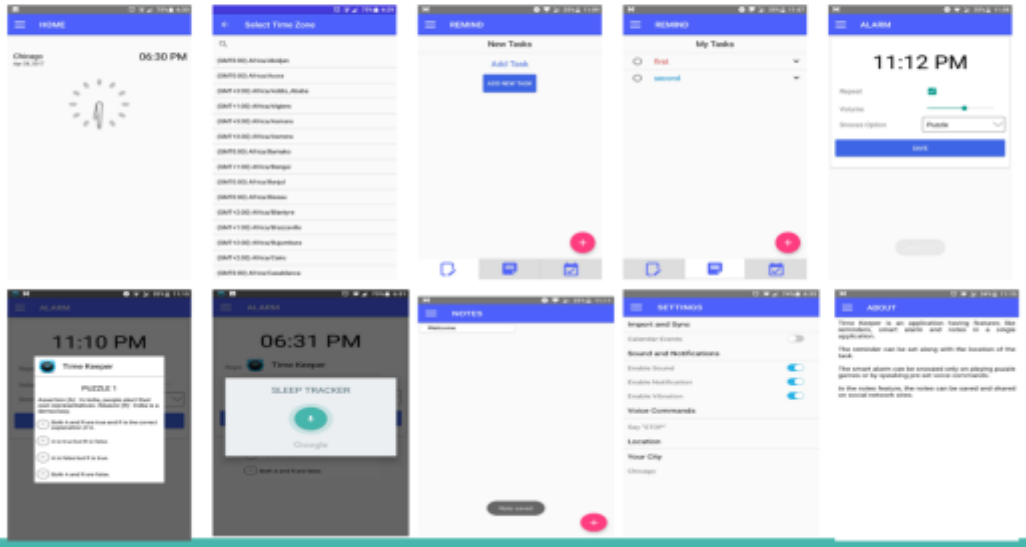
  The reminder can be set along with the location of the task. It indicates the scheduled reminder using different color codes.

  The smart alarm can be snoozed only on playing puzzle or by speaking preset voice commands

  In notes feature, the notes can be saved and can be shared through social media.

Sharing Screenshot
A link to your screenshot has been copied to your clipboard.
Close
Show in Finder

Screenshots



Sharing Screenshot
A link to your screenshot has been copied to your clipboard.
Close
Show in Finder

https://www.youtube.com/watch?v=rlgnx8wfRxY