Test Plan Document

What's HappNin

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Bashes

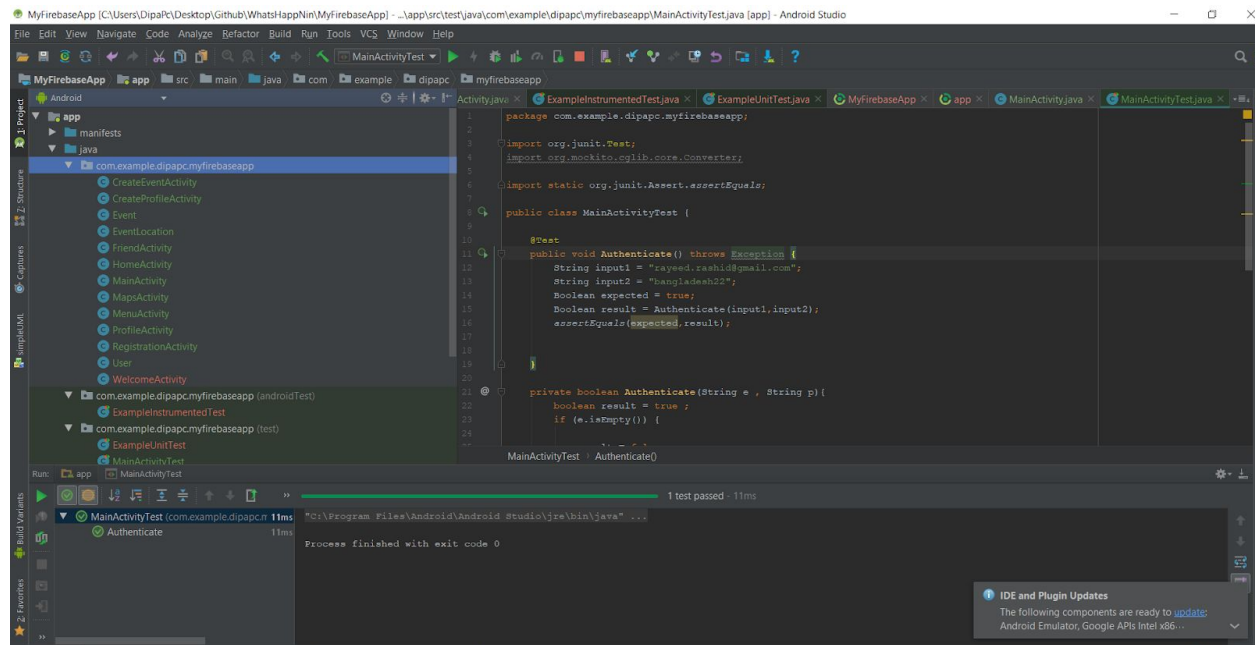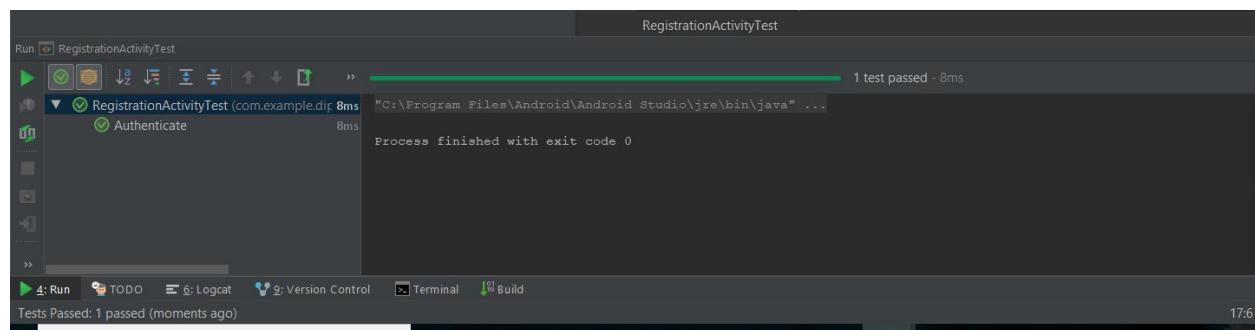**May 6, 2018**

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Unit Testing

Test Case 1

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Use Case Testing

Sign Up

Actors: User, Authentication Database, Profile Database, Application
Requirements:

- **FR:** The system shall allow the user to create an account.
- **FR:** The system shall require a six character password with at least one number.

Main Scenario:

1. User starts up the application
2. User chooses option to sign up
3. User types in their wanted name, password and email address
4. User accepts terms and conditions agreement
5. User selects sign up button
6. System stores their email address and password on firebase authentication database

Alternatives:

3a.   User leaves any of the fields blank
3a1.   The system will show a message to fill up all fields
3b.   User puts the email address in the wrong format
3b1.   The system will show a message to put the email in the right format
3c.   The user types in a password which is less than six characters
3c1.   The system will show a message that the password has to be at least six characters or digits
4a.   The user clicks the sign up button but the app doesn't get connected to the database
4a1. The system will show an error message saying "sign up failed"
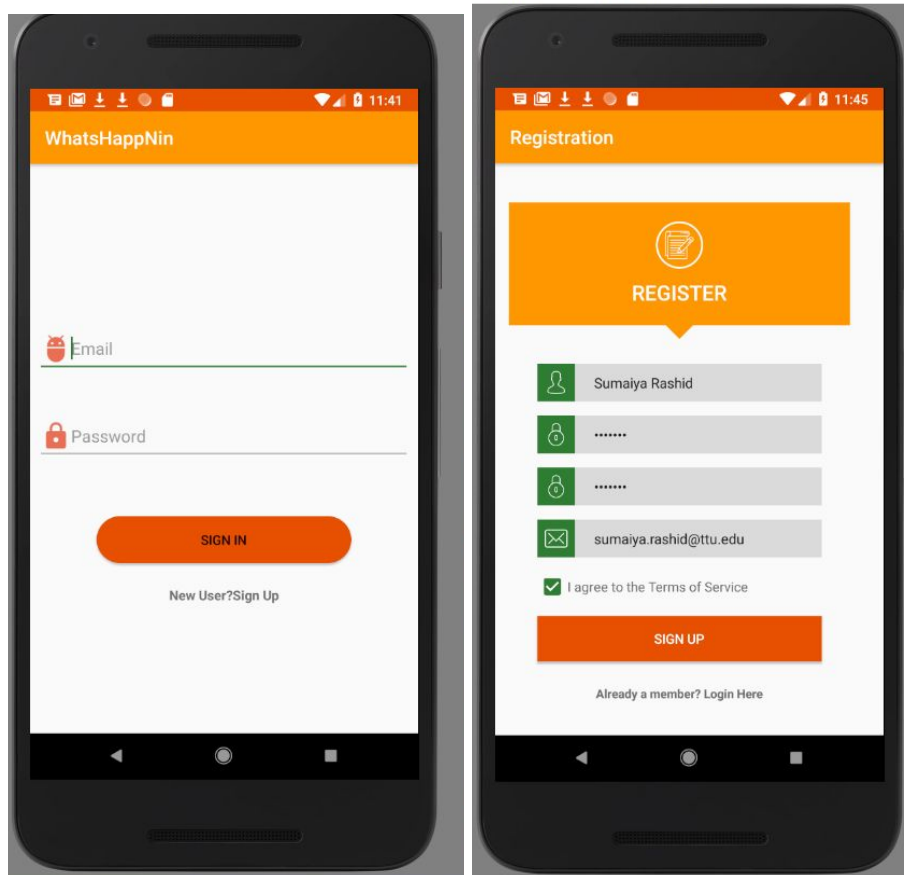
Test Situations:

1. User signs up for an account successfully
2. User leaves a field blank
3. User enters information in incorrect format into fields
4. System fails to connect to database
5. User does not select sign up button

Test Coverage:

- Base number of main and alternative scenarios: 6
- Test situations cover all 6 cases
- 100% Coverage of use case

Screen Shots:

Sign In

Actors: User, Authentication Database, Application

Requirements:
- **FR:** The system shall allow the user to sign in with a username and password.
- **FR:** The system shall allow the user to remain signed in.

Main Scenario:
1. User starts up the application
2. User chooses option to sign in
3. User types in their email and password
4. System checks their email address and password combinations against the firebase authentication database
5. System allow the user access to the application.

Alternatives:
3a.   User leaves any of the fields blank
3a1.   The system will show a message to fill up all fields
3b.   User puts the email address in the wrong format
3b1.   The system will show a message to put the email in the right format
3c: The user puts the wrong email address and password
3c1.   The system will show an error message saying "sign in failed"
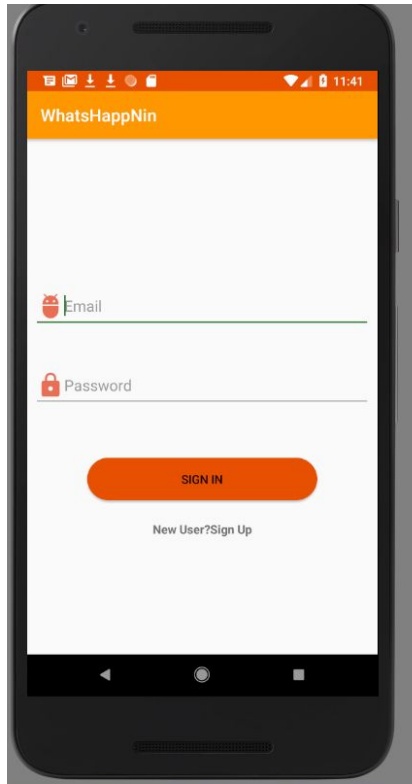
Test Situations:
1. User successfully signs in
2. User does not choose sign in option
3. User types in incorrect email and password
4. System fails to connect to database
5. User does not sign in to application

Test Coverage:
- Base number of main and alternative scenarios: 5
- Test situations cover all 5 cases
- 100% Coverage of use case

Screen Shots:

Post a Hap

Actors: User, Location Services, Posts Database, Application
Requirements:
 ● **FR:** The system shall allow the user to create an event based on their location.
Main Scenario:
1. User starts up the application
2. The user signs in with his email address and password
3. The system takes him to the home page
4. The user selects create event from the home page
5. User types in the text box the name of the event
6. User types in a short description of the event
7. User types in the address of the event
8. User types in the date of the event
9. User types in the time of the event
10. User chooses the type of the event
11. User clicks on the image icon to add an image to the event
12. The system opens up an image picker from the user's phone local database
13. The user selects an image
14. User clicks the save button
15. The system stores the event information in the eventlist in the firebase realtime database
16. The system stores the event picture in the firebase storage

Alternatives:

    11a: The user clicks image icon but there are no images on the local database

    11a1: The system will show a message saying "no image folder on the phone"

    14a: The user leaves any of the field empty

    14a1: The system will show a message to fill all the fields

Test Situations:

1. The user successfully posts a hap
2. User does not select create event from home page
3. The user types in an invalid address
4. The user types in a time that has already passed
5. The user leaves a field blank
6. The system fails
7. the user does not post a hap

Test Coverage:

- Base number of main and alternative scenarios: 14
- Test situations cover all 14 cases
- 100% Coverage of use case

Screen Shots:
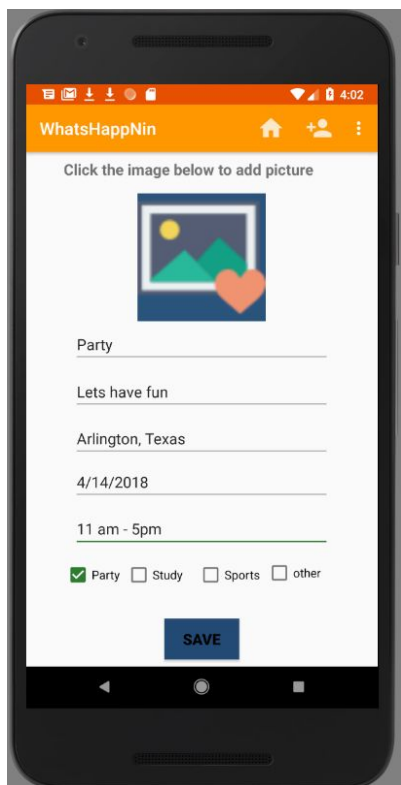
View The Map

Actors: User, Location Services, Posts Database, Application
Requirements:

- **FR:** The system shall allow the user to view events on the map based on their location.

Main Scenario:
1. User starts up the application
2. User signs in with his email address and password
3. The system takes to the user to the home page
4. The user selects the show map button
5. System displays the map
6. System collects the event addresses and event type from the firebase realtime database
7. System puts specific marker according to the event type on the map

Alternatives:

4a: When the user select to view maps and the google map API is unable to connect to the system

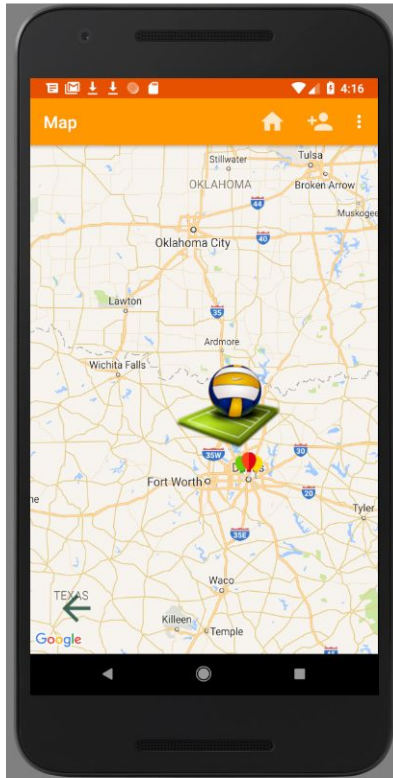4a1:   The system will show an error message saying "unable to load the map".

Test Situations:
1. The user successfully views the map
2. The user does not click view map button
3. The system malfunctions and does not display the map

Test Coverage:

- Base number of main and alternative scenarios: 7
- Test situations cover all 7 cases
- 100% Coverage of use case

Screen Shots:

Create profile

Actors: Profile database

Requirements:

- **FR:** The system shall allow the user to create their profile information.

Main Scenario:

1. User starts up the application
2. User selects to create profile
3. The user types his name on the text box
4. The user types a description about himself on the text box
5. The user selects the image icon to add an image to the profile
6. The system opens up a image picker
7. The user picks and image stored in his phone's local database
8. The user clicks the save button
9. The system stores the user profile information in the firebase realtime database
10. The system stores the profile picture in firebase storage

Alternatives:

5a: The user clicks image icon but there are no images on the local database
5a1:   The system will show a message saying "no image folder on the phone"
8a: The user leaves any of the field empty
8a1:   The system will show a message to fill all the fields

Test Situations:
1. The user successfully creates a profile
2. The user leaves one of the fields blank
3. The user enters more characters than the maximum allowed
4. The user does not have an image to select as a profile image
5. The user does not create a profile

Test Coverage:
- Base number of main and alternative scenarios: 10
- Test situations cover all 10 cases
- 100% Coverage of use case

Screen shots:
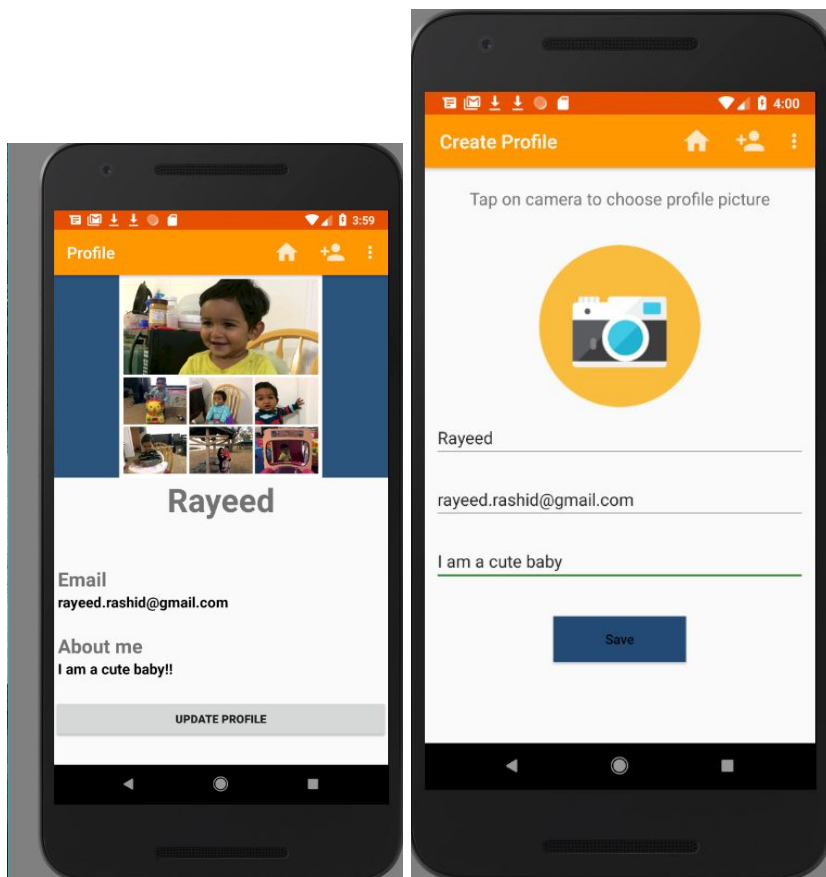
Acceptance Testing

Planning

All the members are involved in the UAT phase.

- The user was given specific requirement to test the app with.

Communication & Issue strategy

Testers can run our app by cloning our source code in github. They can report the problems via skype one-on-one session.

Execution/Documentation

Bugs and feedbacks from users

- Database not connected. Sometimes the user gets the error message "sign in unsuccessful".
- Sometimes app have to be run multiple times in order to get a full running app.
- Sometimes the app does not show current location of the device.
- Sometimes the image area is blank.
- The event shows the location but not the information of the activity.
- Love the front end design.

Documentation of bugs and feedback

- The users were logged in using email and password.
- Our team is working to fix the problem with database.
- Running the app multiple times happens only when using the ide. Once the app has been installed into a phone it works normally.
- Our development team is working with maps class to fix the problems of showing current location.
- We have recorded a live session of the app the data is being monitored for future use.

Documentations of defects in the app

- This app does not track the user path.
- It does not calculate the distance between the event and the user location.