**CSCE 5430 SECTION 009 – SOFTWARE ENGINEERING**

**DELIVERABLE -4**

**PROJECT NAME : ANDROID WOMEN SAFETY APP**

**TEAM NAME :**

**SOFTWAREENGINEERING\_PROJECT**

**TEAM MEMBERS:**

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**Softwareengineering\_project Project**

**Deliverable 3 -Project Phase 2**

**Report Requirements for Phase2**:

The functional requirements for phase 2 are as Follows.

* The Requirements for this phase includes the Login page, Registering for the new account, sign-in page , add emergency contact information, viewing the contact details, to view the profile of user, emergency alarm, secure me.

The Requirements in Phase 2 are:

USER REGISTRATION

* + - When the user opens the app it shows the login activity where user can click on the create account link which opens a new account activity where the user has to give their new account details and click on register button to create an account.

LOGIN

* + - In the login activity of app the user is asked to enter password, if correct password is entered then it opens dashboard in the app.

DASHBOARD

* + - After successful login the dashboard is displayed to user where the user can add contacts, view contacts, view and update profile, send alarm sms to contact members and send location to contact members.

ADD CONTACT

* + - In this activity the user can store others contact details such as their names and mobile numbers so that sms or location can be shared at emergency.

VIEW CONTACT

* + - This activity shows all contact details. It helps the user to view whatever information they have added regarding the emergency contact.

PROFILE

* + - This activity shows profile of the user where it also allows to update the user profile. This feature enables users to look up the information that is added about the user.

EMERGENCY ALARAM

* + - When user clicks on the emergency alarm button on the dashboard it immediately sends help sms message to all contacts already added in the contacts list. This feature is useful to help the user immediately when there is an unwanted danger.

SECURE ME

* + - When user clicks on secure me button on the dashboard it immediately sends user location latitude and longitude as sms to all contacts so that the can track this user in emergency conditions. This feature allows the emergency contact to track the user’s live location to track them and be able to help the user.

**Work Flow of our Requirements:**

1. When the user clicks on the women safety app it asks for login password. After giving the password it shows dashboard.
2. In the dashboard it shows various buttons such as add contact, view contact, profile, emergency alarm, secure me, logout buttons.
3. If the user clicks on add contact button it shows a form where the user can enter contact person name and phone number which stores in the database.
4. If the user clicks on the view contacts button, then it shows all contacts in list view.
5. If the user clicks on the profile button, then it shows profile in the activity and also allows to change the profile so that it updates in the database.
6. If the user clicks on the emergency button on the dashboard it sends a helpful SMS message to all contacts in the contacts’ book.
7. If the user clicks on the secure me button then the app gets the location of the user and sends location as SMS to all contacts so that they can track the user.

The non-functional requirements are as follows:

* Allows numerous users to connect at once.
* "View only" and "full control" modes of operation.
* Windowed, full-screen, and scaled display options.
* Operates in the background as a service on Windows NT computers.
* Supports DHCP and can traverse firewalls.
* Allows for expansive color palettes and pixel densities.

**INTERFACES.**

**User Requirements:**

1. When application is opened it shows sign in activity where the user should create an account by clicking on create new account.
2. In the new account creation activity user details like phone number,first name, last name,email,age, gender, password should be entered and click on register.
3. After creation of account user will be redirected to the home page and asks the user to enter the password to navigate to the dashboard.
4. User will be prompted with the options like “profile”,”Fake Call”,”Add contacts”,”View contacts”,”secure me button” and “Emergency Alarm”.

**Hardware requirements:**

Processor Intel i5 and above

RAM 8 GB and above

Hard Disk 100 GB and above

GPU GTX 1080 and above

**UML design for Phase 2.**

* **Class Diagram**

Chart, treemap chart

Description automatically generated

**Sequence diagram**

A picture containing diagram

Description automatically generated

* **Use case diagram-**

Diagram

Description automatically generated

Diagram

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**Test Cases (unit tests) for phase 2.**

* 1. Test Cases (unit tests)

List a set of test cases used for testing the working program including descriptions of tests (e.g., what functionality they test, and inputs/outputs for them).

Test Case A:

Description: In the add contact activity the user enter contact person name and mobile number and clicks on add contact button which adds to database.

Output: Contact Added

Actual Output: Contact Added

Result: Success

Test Case B:

Description: When the user clicks on the view contacts button it shows all contacts in list view which was added in add contact activity.

Output: Show all contacts

Actual Output: Show all contacts

Result: Success

Test Case C:

Description: When the user clicks on the profile button it shows user profile and also allows to enter mail id, phone number, first name, last name ,age ,gender,city and updates when clicked on update button.

Output: Shows profile and updates profile

Actual Output: Shows profile and updates profile

Result: Success

Test Case D:

Description: When the user clicks on emergency button it sends help sms message to all contacts present in the contacts history.

Output: Sends help sms

Actual Output: Sends help sms

Result: Success

Test Case e:

Description: When the user clicks on secure me button it sends user location sms message to all contacts present in the contacts history.

Output: Sends location sms

Actual Output: Sends location sms

Result: Success

**Report User Manual**

A user manual describes how to install/use the application. This helps the end users of the software. Here are the steps needed to be followed to use the application.

1. First, we need to install the software in our mobile. Since we are not launching this app into any app store for now, we can directly install this app as a (.apk file).

Text

Description automatically generated

This is the welcome page after the installation of the application is done.

1. After the installation is done the next step is the creating an account in the app by entering all the required details.

Graphical user interface, application

Description automatically generated

After entering all the required details, we need to choose a password and submit the user creation form and make sure that we keep the note of the password so that we can login next time without any hustles. Now the user account is created and is ready for use.

1. Once the account is created the next step is to add emergency contact details. You can add the emergency contact details like shown below. We suggest you add these details accurately and double check them.

Graphical user interface, application, Teams

Description automatically generated

1. Its always better to add an alternate emergency contact details because in case of emergency if one contact doesn’t respond we always have the feasibility to send the alerts to a second person.

Graphical user interface, text, application, Teams

Description automatically generated

Table

Description automatically generated with medium confidence

Graphical user interface, application, table

Description automatically generated with medium confidence

1. After adding emergency contact details, the app is almost ready to use. Once we fill all the details, we can see a dashboard displaying all the features and there is one clickable hyperlink for each feature.

Logo, company name

Description automatically generated

There are 8 features available in the app as of now.

1. CONTACTS: To add emergency contacts. We can always view and edit emergency contact details.
2. View Contacts: To view the list of emergency contacts.
3. Fake Call: This action allows user to make a fake call.
4. Securable: This actions allows to send alert to nearby users
5. Feedback: Users have the option to send feedback using this feature. Whenever they find a bug, they can report using this feature.
6. Logout: We can logout or quit from this app using this feature.
7. Emergency call: user clicks on the emergency alarm button on the dashboard it immediately sends help sms message to all contacts already added in the contacts list
8. Text, application

   Description automatically generatedSecure Me: This feature allows the emergency contact to track the location of the user.

**Report Compilation instructions**

Clear instructions how to compile/run both program ans your test cases

* We have to install JDK with respect to the OS platform.
* Android studio installation is required.
* Then, Open the Android Studio application.
* Select the file menu - select open – and then select path of the project path(Women Safety App) and then click on OK.
* Connect your mobile to the laptop using the USB cable.
* Select the device from the drop down menu on the toolbar
* And then click on the run app button.

**Report Peer Review Feedback**

They have questioned us about the project accuracy, so we have increased the App accuracy by estimating the datasets, future considerations and additional functions that might be required by the user in the future.

We have also appropriately paid attention to the design requirements of the App so that outcome can perfectly be an Android app as they have enquired us about the same.

**Report Reflection:**

• As of Phase2, we have accomplished updating the profile features like the user can change the email id, update a new phone number, update or change their password.

• A new feature like adding the contacts in the app as the user requirement can be made possible now.

• The user can also add emergency contacts according to their choice and on pressing the emergency contacts at a time needed an emergency text like “ Help me” is sent to the emergency contacts.

• We also added the “secure me” button on pressing it all the emergency contacts the user has added in the App receive a message from the user which shows their exact location and they can use that to secure the user.

**Member Contribution Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| Member Name | Contribution Description | Overall Contribution | Note |
| Krishna Sai Ujwal Kambhpati | Worked on the Fake call feature and Involved in coding of the design of the user interface and user experiences. | 12% |  |
| Vineesha Sangepu | Worked on the Secure Me feature and Worked on the report requirements and the core functionalities. Worked on UML diagrams for the documentation and testing the application | 14% |  |
| Praveen Reddy Talupu | Worked about the compilation and run instructions. And Peer Review suggestions. | 12% |  |
| Vineela Pamarthi | Worked on developing the add contact feature and Worked on the User Manual document and designing the screens of the android application | 12% |  |
| Jayakanth Madineni | Involved in the testing of the requirements and organized the zoom meetings for team discussions | 12% |  |
| Sharan kumar pallapu | Worked on the documentation and code functionalities.  Attended meetings for the discussions | 12% |  |
| Sai Tai Prathyusha Garikapati | Worked on the test cases of the project in the documentation and worked on the Report Reflection. | 14% |  |

Note: Referred from the previous deliverable for the compilation instructions and the user manual.