CSCE 5430 SOFTWARE ENGINEERING
PROJECT DELIVERABLE 4

GROUP: BRAINSTORMERS

1. Report Requirements:

The Requirements in Phase 2 are:

- Admin Page:

  The administrator uploads volunteer and help line information on this website, which is then presented in the Covid app.

- Covid Survey Page:

  It is a survey that is carried out via an Android app, and the program predicts whether or not a user is infected with Covid based on health data like fever, cough, oxygen level, etc. The app displays the precautions if Covid detects the user.

- Precautions Page:

  This app activity outlines all the procedures that should be done to prevent virus infection of the user.

- Donations Page:

  The app for this activity lists all the volunteers and provides a link to their website where users can donate items like food, supplies, money, etc.

- Helpline Page:

  For the user to be able to receive assistance in an emergency, the app displays all of the helpline numbers, hospital names, and government contact information in this activity.

Work Flow of our Requirements:

- When the app is launched, it requests login information like a username and password. After entering their username and password, users can access the app's dashboard.

- On the dashboard, select the "Covid Survey" button to launch the survey activity. The user is then prompted to enter their gender, age, temperature, blood pressure, oxygen saturation, cough, and headache before pressing the "Covid Predict" button. The app sends this information to the server, where a php script determines whether or not the user is infected with a virus and then delivers test results to the app, which are displayed to the user in a dialog box.

- To view the precautions to stop the spread of COVID-19 and the precautions for COVID-19 patients, select the COVID Precautions button on the dash board.

- Clicking on the COVID cases on the dashboard opens the WHO website, which displays COVID instances in real time all over the world.

- In the dashboard, select the Donate tab to access all of the admin-updated donate links. The give link takes users to a webpage where they may make donations when they click it.

Detailed Description of Changes made:

- In deliverable – 3, we implemented application pages for user login, user registration and dashboard.

- In deliverable - 4, we implemented helpline page, donations page, precautions page, covid survey page and admin web page.

Front End Design, Back End Design Requirements:

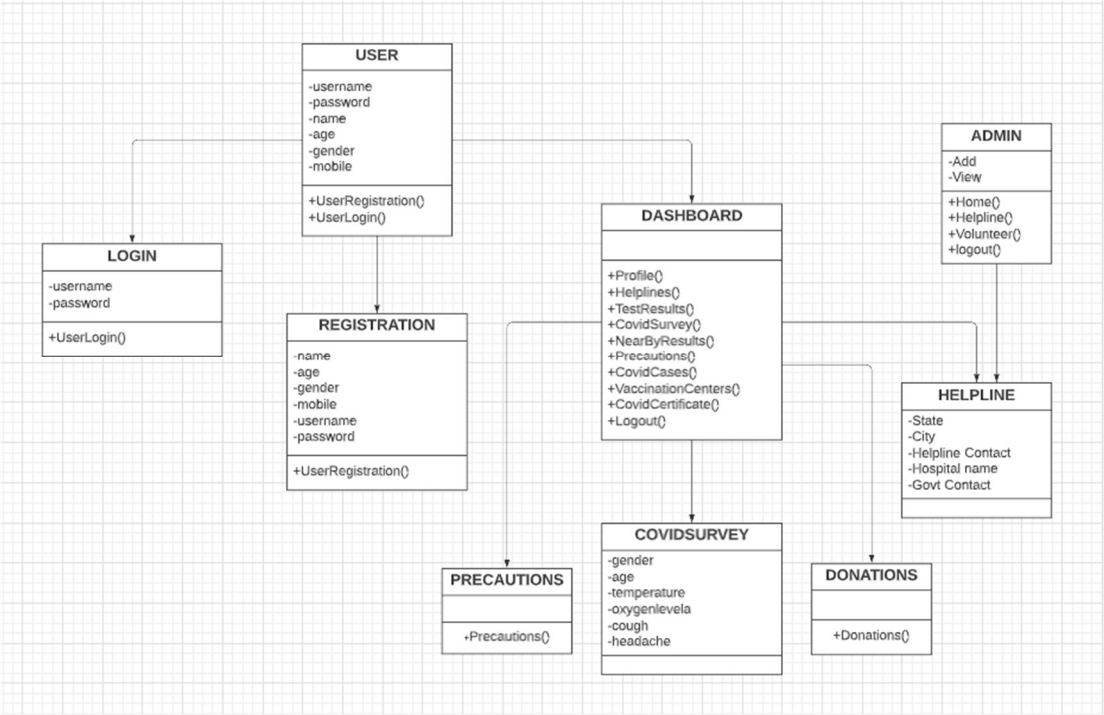
- Android Studio
- Java
- PHP
- XML
- MySQL database

Hardware Requirements:

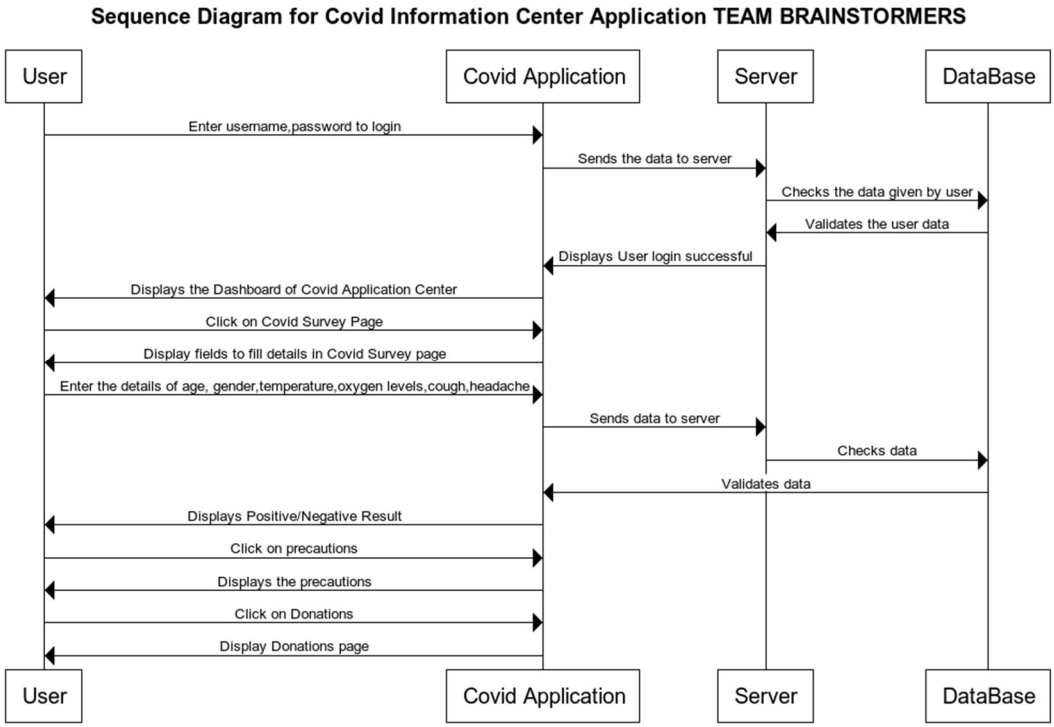
- Intel i5 process and above
- RAM 8 GB and above
- HD 500 GB and above
- GPU GTX 1080

2. UML design for Phase 2

- Class Diagram:

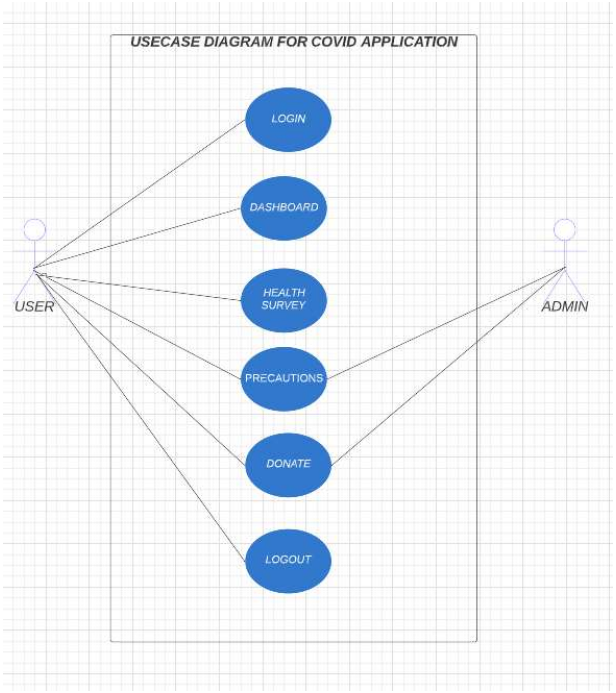


- Sequence diagram for Covid Information Center Application

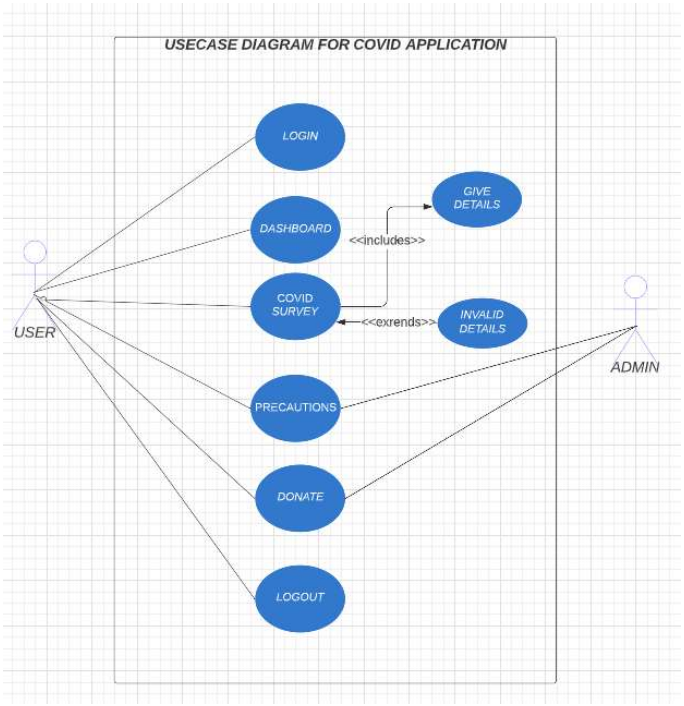


- Use case diagram-one normal case and one error case should be included.

  Use case Diagram for Covid Application Center – Normal Case



Use case Diagram for Covid Application Center – Error Case



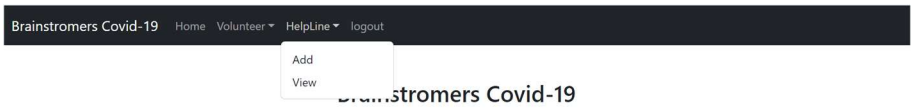
3. **Test Cases for phase 2:**

- **Admin page:**

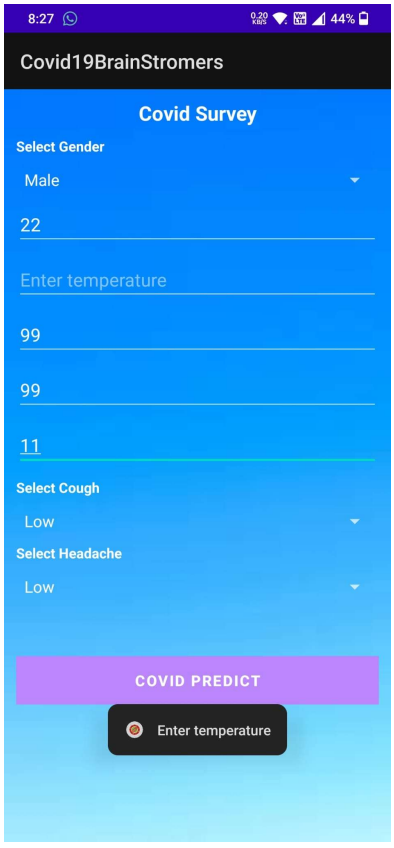
    - The Admin page is used to update the application from server's side. Here, Admin can add data about the helplines and volunteer details.

    - The below picture shows how the admin page look alike.

    - We implemented Admin page in this phase 2. Admin page requires a username and password for login. After login the page looks like picture below.

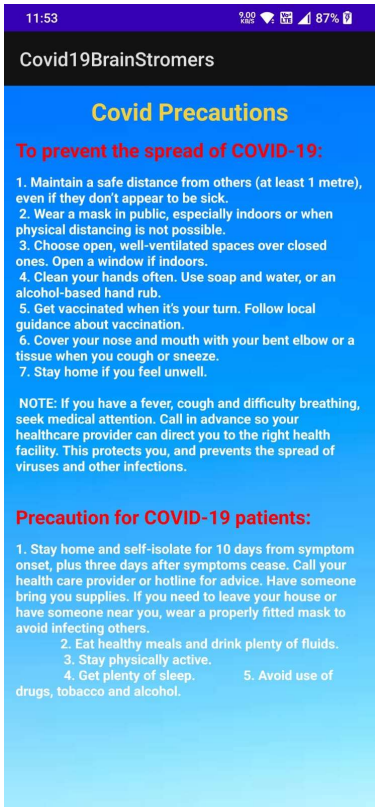


- **Covid Survey Page:**
    - After logging into the application, user can see the dashboard page in that, Covid survey button is seen.
    - In Covid Survey page, user can check covid predictions.
    - If the user gives details according to the required fields, the app gives covid predictions.
    - Here, we have tested it without giving the temperature values in the required fields. It shows error as enter temperature.
    - Or else, it predicts whether user is having covid or not.



- **Precautions:**

    - This page can be seen when the user select the precautions button. The precautions page is seen as shown in figure.

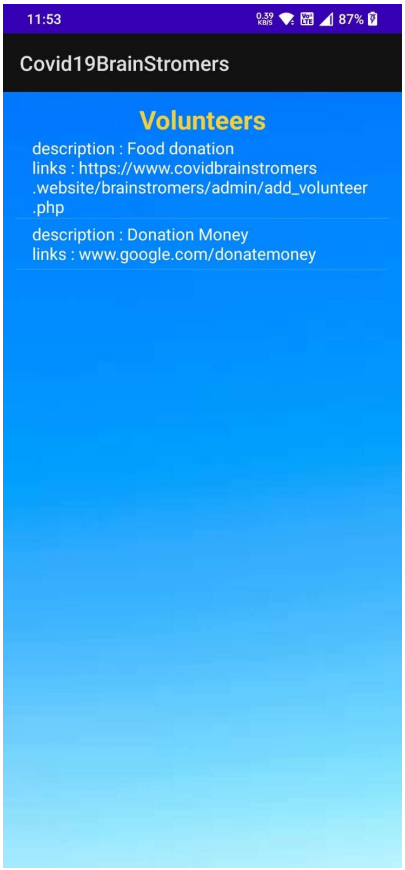


- **Donations Page:**

    - The Donations page can be seen by clicking on donate button in the dashboard. This page provides more details about donations and volunteering for Covid 19.

    - This app provides some donations links where user clicks on it directly navigates to the page where they can donate and volunteer.

    - The donation page looks like



- **Helpline Page:**
    - The helpline page can be seen in the dashboard of the application.
    - This page is helpful when the user is in any emergency regarding the Covid situation.
    - Then, user can contact them using this helpline page.

4. **Report User Manual:**

- Download the project Covid19BrainStromers into system.
- Run android studios.
- Select File->Open and select Covid19BrainStromersfolder.
- Click on the run button to run the application in emulator.
- When executed it shows Login page where user can register and login into the application.

5. **Instructions on how to compile/run both program and test cases:**

- Download and install the JDK, Android studios and run Android Studios software for running or compilation of our project.
- After running the android studios, open select file and open with "Covid19BrainStromers" folder from the path.
- Start running the application program in android studios.
- The application will run in the android emulator.
- If emulator is not working in your system then select Build->Build Bundles(APK) -> Build APK
- APK of app will be created and go to the path of APK file and copy to mobile, install and run the app.

6. **Report Code Inspection Feedback:**

- Feedback:

  The feedback given by Raptors team was implemented in the code to work on better UI and they mentioned about having an admin in the project.

- Actions:

  We took it for our project better working. Worked on the coding part and improved our UI design and included admin in part of our project.

7. Report Reflection:

- In this deliverable 4, we have worked on dashboard requirements admin, covid survey, donations, helpline and precautions
- In this phase, user can access the dashboard. We can check for donations, helpline numbers and also precautions can be seen.
- In the covid survey page, if we enter the details correctly, it will help to predict the covid survey.
- We can see the list of precautions to follow if we are infected with covid.
- We can also the donations and worldwide covid cases.

8. Report Member Contribution Table:

Members	Contribution
Vaishnavi Mandadi	Worked on requirements that need to be done for phase 2. Attended group meetings and discussed the changes to be Done.
Aishwarya Yadav Jala	Worked on test cases to be tested on the Application. Attended group meetings and note- deliverable 3 files.
Venkata Sai Reshma Kallepalli	Helped in updating the pages of application and worked on documentation of deliverable- 4. Attended group meetings
Akshaya Sampelli	Worked on UML diagrams and designing of application. Attended group meetings. Gone through the submissions on canvas
Kiran Jyothi Bodduluri	Worked on user manual and helped in uml diagrams for this phase 2. Attended group meetings.
Sahit reddy Chintakuntla	Worked on test cases used for the programs. And helped in updating the functionality of the project. Attended group meetings.
Rajashekhar reddy Moddu	Created meetings to connect with the group members and helped in Documentation.