CSCE 5430 SOFTWARE ENGINEERING
PROJECT DELIVERABLE 5

GROUP: BRAINSTORMERS

a. **Report Requirements:**

The Requirements in Phase 3 are:

- For the users, this app provides a profile updation to update anything that they want to do.

- For the profile updation, it requires information like name, gender, age, mobile, username and password.

- In dashboard, there is a button called nearbypositivecases where user can see the Covid cases nearby.

- When clicked on it, it shows the exact location in the map.

- In dashboard, there is a button called covidcases where it shows the world health organization Covid 19 dashboard.

- In the covidcases module, we have linked it with the WHO Corona virus dashboard, where user can see the worldwide cases through it.

- There is button called Vaccination centers in the dashboard, where the user can see the vaccination centers for the Covid 19.

- The vaccination centers are uploaded by the admin.

- Covid Certificate button in the Dashboard provides us the details and photos of the user's Covid certificate which will be uploaded by the admin.

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 "User Profile" button to use that for updating the user profile. The user is then prompted to enter their gender, age, mobile, username and password for updating the profile.

- The app sends this information to the server and updates the profile of the user.

- When we click on the COVID cases on the dashboard, the WHO website opens and shows COVID cases in real time around the globe.

- In the dashboard, select Vaccination centers in order get the information about the details vaccination centers. Admin provides this information through admin website.

- In the dashboard, select the Covid certificate tab to access all of the admin-updated Covid certificate of the user.

Detailed Description of Changes made:

- We implemented the helpline, donations, precautions, Covid survey, and admin webpage modules in deliverable - 4.

- In deliverable - 5, we have implemented User profile updation, Nearbypositivecases, Vaccination centers, Covid Certificate tabs in the dashboard in the Covid Information center application.

- We are implementing our project in the way we discussed in the past deliverables.
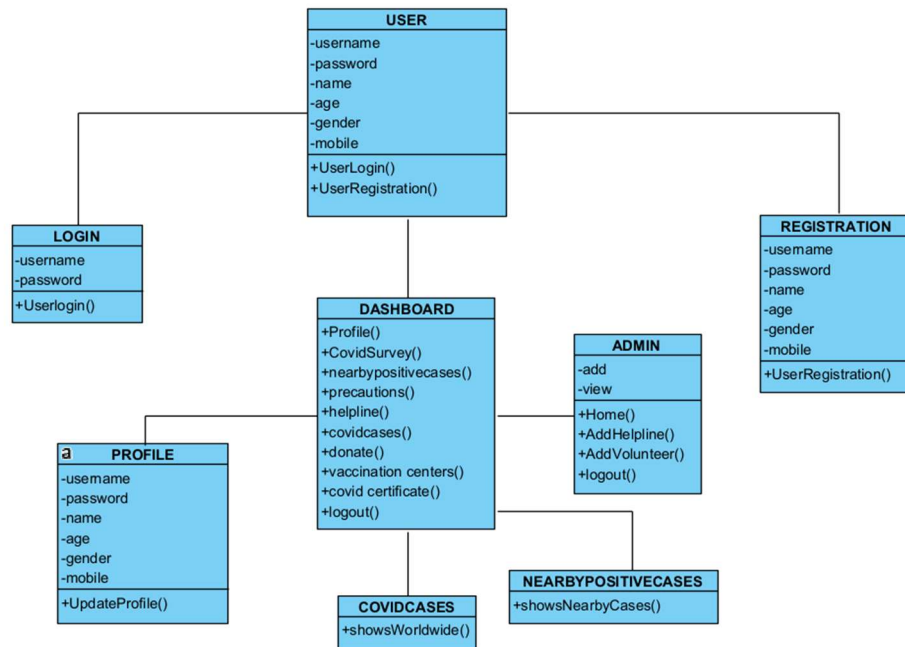
Front End Design, Back End Design Requirements:

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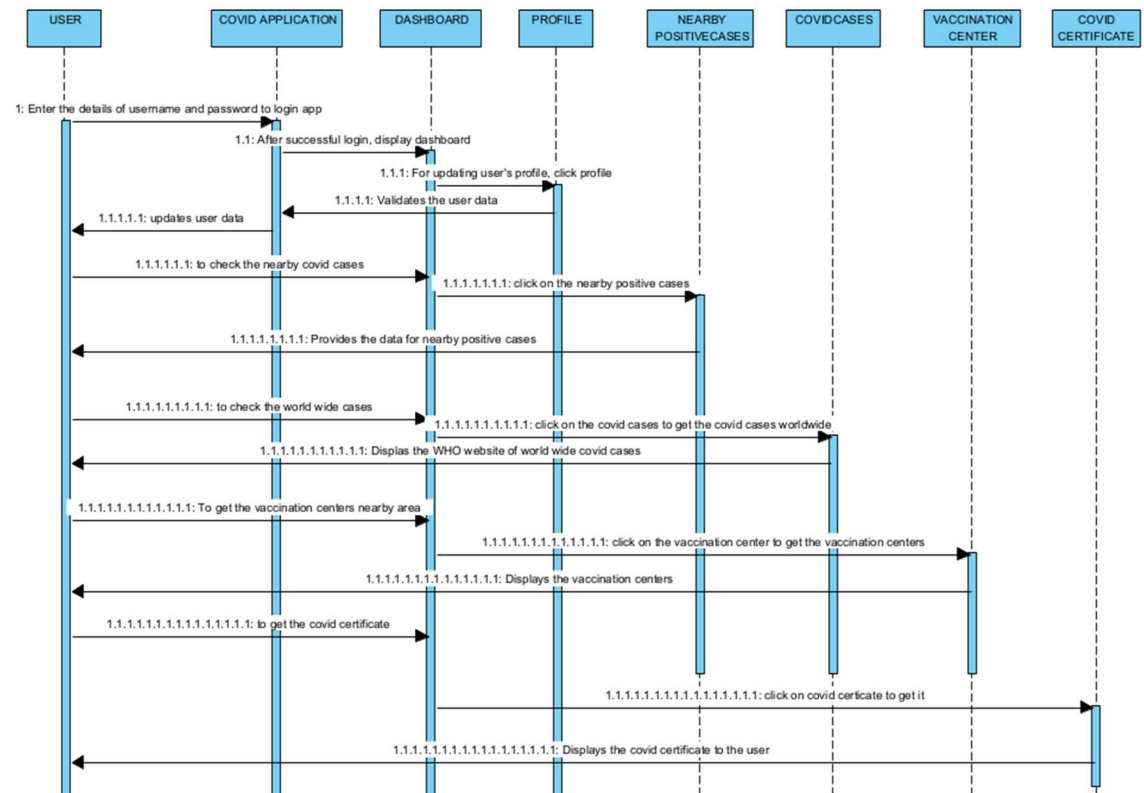- MySQL database

Hardware Requirements:

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

b. UML design for Phase 3

- Class Diagram:

USER
-username
-password
-name
-age
-gender
-mobile
+UserLogin()
+UserRegistration()

REGISTRATION
-usemame
-password
-name
-age
-gender
-mobile
+UserRegistration()

LOGIN
-username
-password
+Userlogin()

DASHBOARD
+Profile()
+CovidSurvey()
+nearbypositivecases()
+precautions()
+helpline()
+covidcases()
+donate()
+vaccination centers()
+covid certificate()
+logout()

ADMIN
-add
-view
+Home()
+AddHelpline()
+AddVolunteer()
+logout()

a PROFILE
-usemame
-password
-name
-age
-gender
-mobile
+UpdateProfile()

COVIDCASES
+showsWorldwide()

NEARBYPOSITIVECASES
+showsNearbyCases()

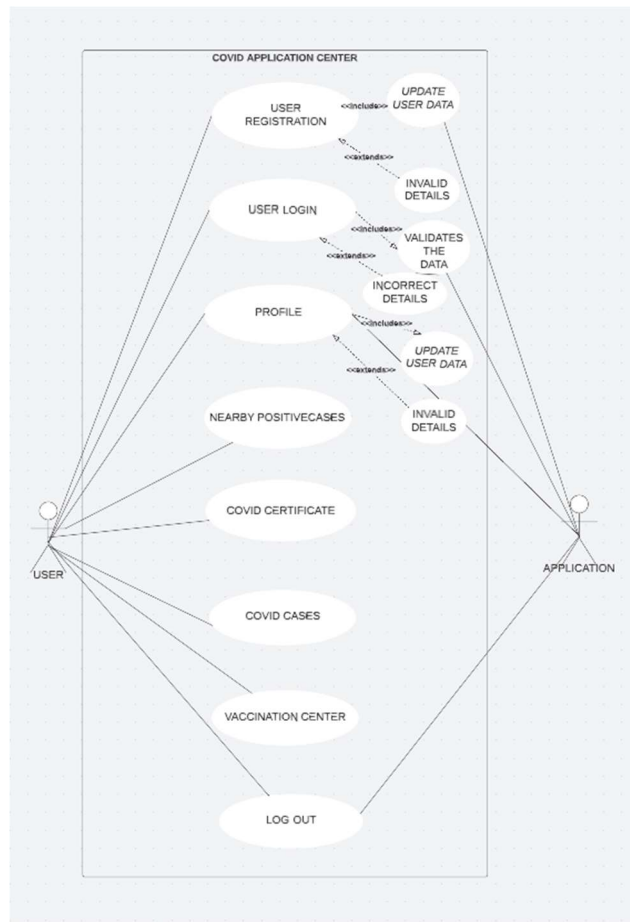- Sequence diagram for Covid Information Center Application

- 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

c. Test cases (unit tests + system tests)

Unit tests:

- In Profile tab from dashboard to update the profile of a user, giving the invalid details.

  Expected: Returns invalid details
  Actual: It returns invalid details

- In Covidcases tab from dashboard,

  Expected: Opens the WHO website
  Actual: the WHO website is opened.

- In Near By Positive Cases tab from dashboard,

  Expected: Shows nearby positive cases
  Actual: Showing nearby positive cases

- In Vaccination center tab from dashboard,

  Expected: Shows vaccination centers
  Actual: It is showing vaccination centers in denton city

- In Covid Certificate tab from dashboard,

  Expected: shows the covid certificate of a user
  Actual: It is showing covid certificate of a user.

System tests:

USER REGISTRATION

- Here the user will provide the details like name, gender, age, mobile number, user name and password.
- Expected Output = Registration Successful.
- Actual Output = Registration Successful.
- Result = Success.

USER LOGIN

- Here the user will enter the user name and password.
- After entering the data by the user the server checks the data and validates the user data.
- Expected Output = Login Successful.
- Actual Output = Login Successful.
- Result = Success.

DASHBOARD

- Here we can see the dashboard of the covid application.
- Expected Output = Dashboard Successful.
- Actual Output = Dashboard Successful.
- Result = Success.

COVID SURVEY PAGE

- Here we are displayed with the dashboard of covid application center.
- After entering it displays the fields that are to be filled in the covid survey page.
- The details that are to filled are age, gender, temperature, oxygen levels, cough and headache.
- After entering the details the application sends the data to the server it checks and validates the data.
- Expected Output = Covid Tested Postive.
- Actual Output = Covid Tested Positive.
- Result = Success.

NEARBY POSITIVE CASES

- Here it shows the nearby positive cases.
- Expected Output = List of covid patients.
- Actual Output = List of covid patients.
- Result = Success.

PRECAUTIONS

- Here it shows the precautions that are to be taken.
- Expected Output = Covid Precautions.
- Actual Output = Covid Precautions.
- Result = Success.

COVID CASES

- Here we will select the state and the city which helps in displaying the positive cases based on the location.
- Expected Output = Real Time Covid Cases Data.
- Actual Output = Real Time Covid Cases Data.
- Result = Success.

HELPLINE NUMBERS

- Here we can get the emergency contact numbers when required.
- Expected Output =Helpline Contact Numbers.
- Actual Output = Helpline Contact Numbers.
- Result = Success.

VACCINATION CENTERS

- Here we will be able to see the available vaccination centers.
- Expected Output = List of Vaccination Centers.
- Actual Output = List of Vaccination Centers.
- Result = Success.

COVID CERTIFICATE

- Here it shows the covid certificate of the user who is tested positive.
- Expected Output =Covid Certificate.
- Actual Output = Covid Certificate.

- Result = Success.

ADMIN LOGIN

- Here the admin will enter the details like username and password which checks and validates the data.
- Expected Output = Admin Login Successfull.
- Actual Output = Admin Login Successfull.
- Result = Success.

ADMIN ADD VOLUNTEERS

- Here the admin will add the volunteers who are ready for the help in the application then the required users can contact them.
- Expected Output = Volunteers Added.
- Actual Output = Volunteers Added.
- Result = Success.

ADMIN ADD HELPLINE CONTACTS

- Here the admin can add the helpine contacts.
- Expected Output = Helpline Contacts Added.
- Actual Output = Helpline Contacts Added.
- Result = Success.

ADMIN ADD VACCINATION CENTERS

- Here the admin can add the details of vaccination centers.
- Expected Output = Vaccination Centers Added.
- Actual Output = Vaccination Centers Added.
- Result = Success.

d. Report User Manual:

- Download the SEgroup-master zip file into the system.

- Run android studios.

- Select File from android studios and Open it with SEgroup-master.

- 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 of the Covid 19 application.

e. 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 "SEgroup-master" 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 we can select Build and opt to Build Bundles (APK) and Build an APK for Covid19 application.

- APK of app will be created and go to the path of APK file and copy to mobile, install and run the app.

f. Report Ending Feature Summary:

Implementation features:

- We have worked on many implementation features like user profile updating where user can update his profile.

- This time we also worked on updating the nearest positive cases around where we can also get their location by directly redirecting to google maps.

- We also worked covid vaccination centers where it will display the address and phone number of the vaccine location.

- When we click on the covid certificate button it shows the certificate uploaded by the admin.

Limitations:

- The app is constrained to work correctly when we enter the right credentials to login to the application.

- In this app we have included locations, maps successfully. But it took lot of time to complete this for successfully implementation.

- The limitation of app is that the user is not posted with how many vaccines he already taken and next doses information.

- In donation module just we are providing the url to organinsation who take donations but verification of these organization is not implemented.

Unimplemented features:

- Our application works only for the android but not for iOS and as web application.

- We have developed our project in android studio and also ran our project in domain.

- We tried to implement all the features which we have discussed.

Future Plans:

- In the future, we will try to implement our project in ios and also as web application.

- We worked on manual testing for our website.

g. **Report Reflection:**

- In deliverable – 5, we have implemented user profile updation, nearbypositivecases, Covid cases, vaccination centers, Covid certificate tabs.

- We can update the user profile using profile tab in the dashboard successfully.

- Covid cases can be seen using the Covid cases tab.

- User can watch the Covid positive person within nearby place using nearbypositivecases tab.

- Vaccination centers are available in the application, where user can see it.

- Covid certificate of the user can be seen which is provided by the admin.

Report Member Contribution Table:

Members	Contribution
Vaishnavi Mandadi	Worked on requirements that need to be done for deliverable 5. Attended group meetings.
Aishwarya Yadav Jala	Worked on github uploads, Meeting minutes and note- deliverable 5 files.. Helped in documentation. Attended group meetings.
Venkata Sai Reshma Kallepalli	Worked on documentation of Deliverable - 5. Helped in updating the pages of application and Attended group meetings
Akshaya Sampelli	Worked on UML diagrams. Attended group meetings. Gone through the submissions on canvas. Helped in github uploads.

Kiran Jyothi Bodduluri	Worked on user manual and helped in uml diagrams. Helped in documentation Attended group meetings.
Sahit reddy Chintakuntla	Worked on powerpoint presentation of deliverable 5, helped in updating the functionalities of the project. Attended group meetings.
Rajashekhar reddy Moddu	Worked on powerpoint presentation for deliverable 5. Created meetings to connect with the group members.