- Group Name: WAP Team
- Project Name: COVIDTRACKER
- Team Members:
    - Rayan Treebhowon N01226282
    - Tsidkeenu Aznar N01180428
    - Satyam Dalvadi N01333116
    - Jagminder Sembi N01300801

- GitHub Link: https://github.com/TsidAznar/WAPCENG319
- For Cloning: https://github.com/TsidAznar/WAPCENG319.git

- Scope/mission: Our Team, WAP is in the working of making an application called COVIDTRACKER. What this application will achieve is that it will be providing information about Covid-19 worldwide. In these tough times not a lot of people are not up to date about Covid-19 like what is happening around the world such as certain countries or and the states from USA as they were recently the leading country with the most cases worldwide that is why the application focuses on them: cases, active, recovered, deaths and total people that have been tested. The goal that we're trying to aim is to deliver the information to people about different areas in the world.

- Project Description:

    - The project retrieves live data from APIs and store them into a database. The application retrieves the live data of the total of confirmed cases around the world and as well it displays the percentage of recovery and the number of active, recovered, death, critical states and total number of affected countries on the main page at the moment the user enters the application or each time they wish to refresh the data. User will also be able to navigate to the next tab and search every single country around the world or their own country where it would display the total number of confirmed cases as well as active, recovered, deaths, critical and total tests and test per million. There will be also another tab available to be able to search all the states in USA as they were recently the leading country and we wanted to target that in order to show how accurate the application is. User will be able to save their signature in the application in the setting tab and as well select their default reply actions for emailing. User will also have the chance to send us feedback on issues they are having with the application for us to update and improve the application. Application will also support English and French.

- Work Progress:

  October 4th
  -distribution of work
  -Create Gannt chart (1-day)
  -Brain storm Functionality and methods for implementation (1-day)
  -Mock-up, Requirement Analysis, and defining the tools used in the project (1-day)

  October 11th
  -Create data flow diagram (1-day)
  -Design Document Architecture diagrams (1-day)
  -Discuss User Interface and graphical implementation (1-day)
  -Create empty project and get app started (7-day)

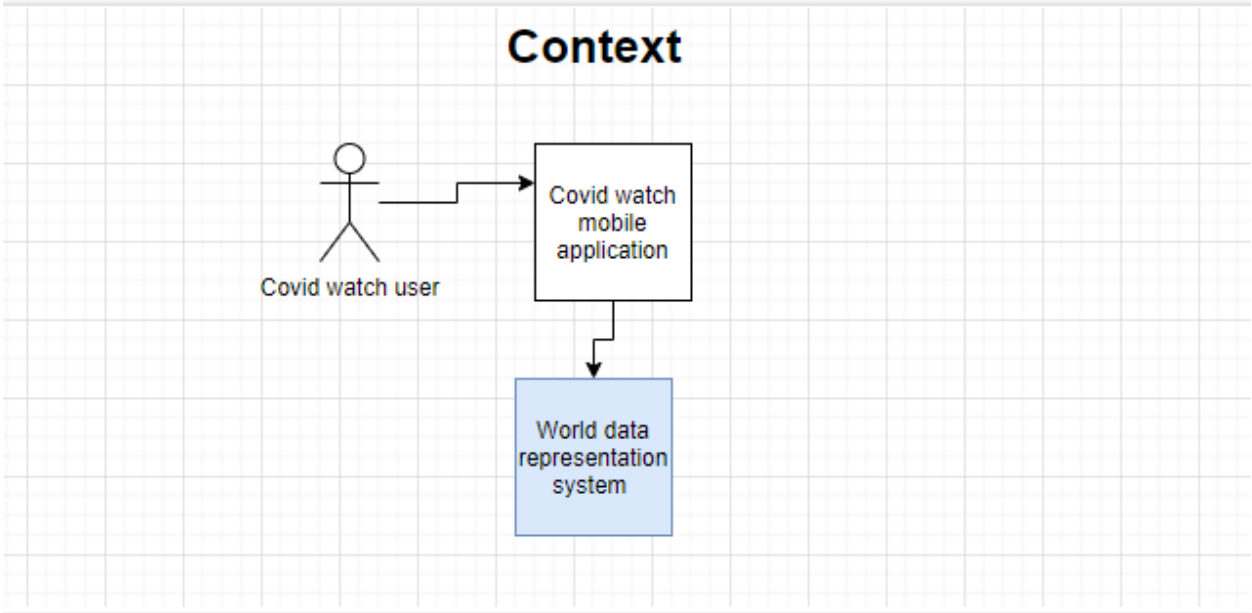
  October 18th
  -Prepare functionality, data formatting and storage (1-day)
  -Code and implement log-in function (7-days)
  -Started with UI examples and testing (3-days)
  -Started application layouts and implementation of pictures with different resolution (3-days)

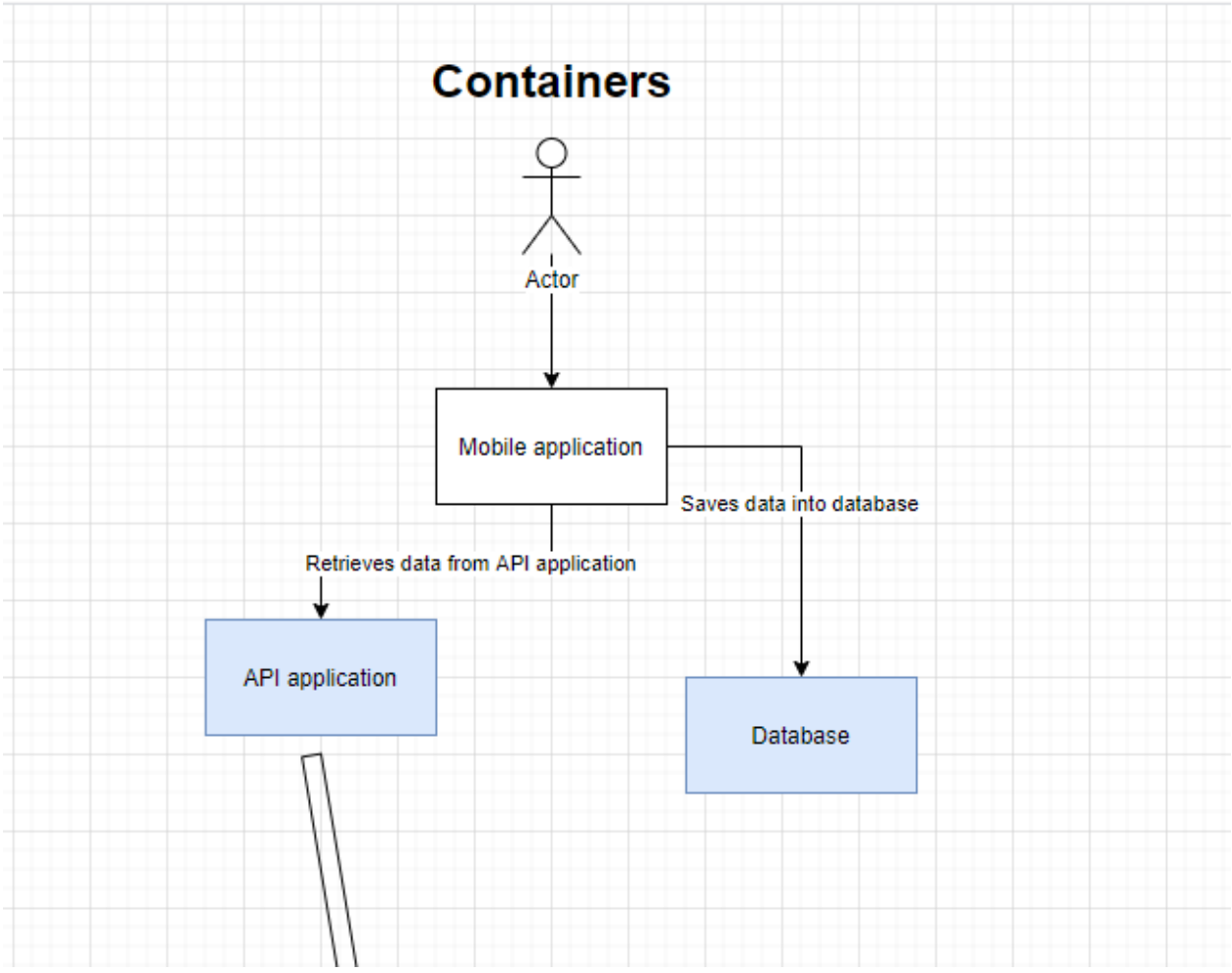
  October 25th
  -Code and implement Data Fetching (7-days)
  -Implementing APIs and creating Databases (14 Days)
  -Building activities and testing phase (5 Days)
  -Getting APIs from WHO for worldwide, individual countries and specific states(5-days)
  -Got API, built the main activities to fetch data from API and display it and store it the tables(5-days)
  -UI for the screens (Implemented with layout and made adjusting)(4-days)

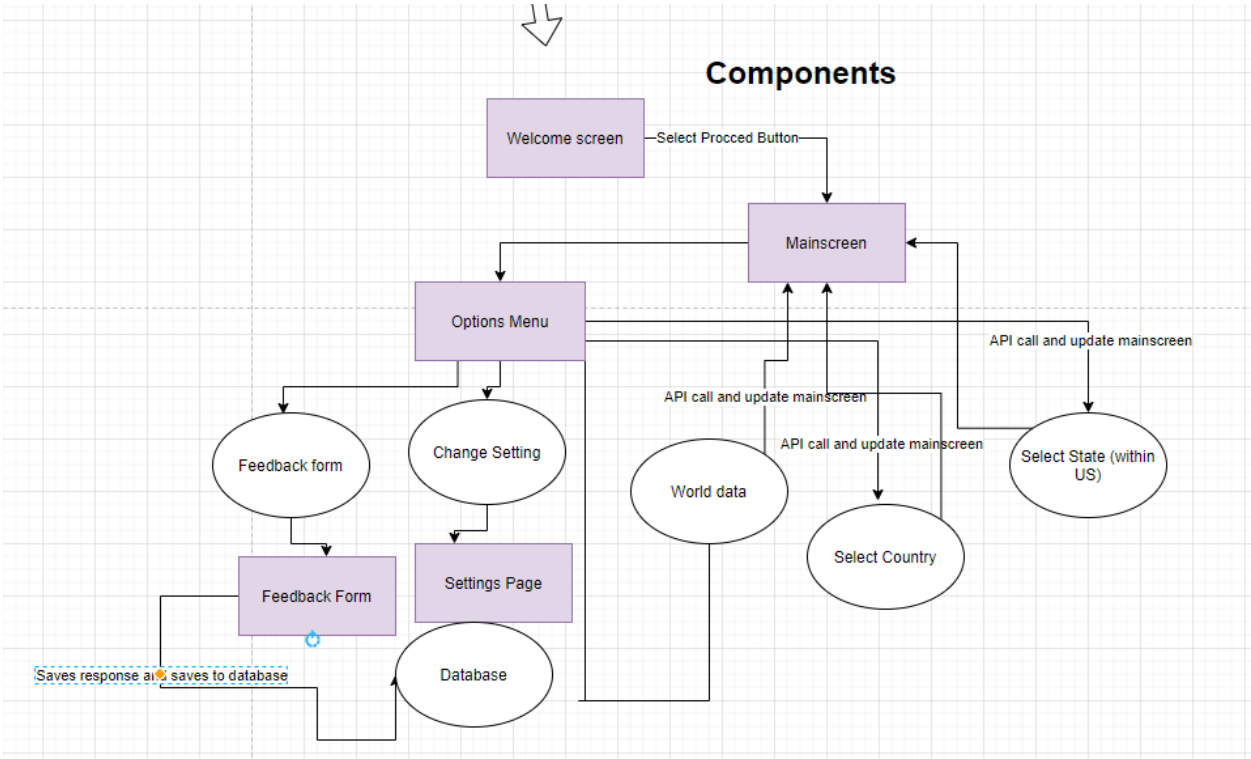
  November 7th
  -Implementing APIs and created table for storing data (14 Days)
  -Code and implement Interface formatting (7-days)
  -Implemented UI and APIs for retrieving live Data (5-days)
  -Stored data and keeps displaying data even when device have no network connection (3 -days)
  -Test app for user experience and document points for improvement (1-day)

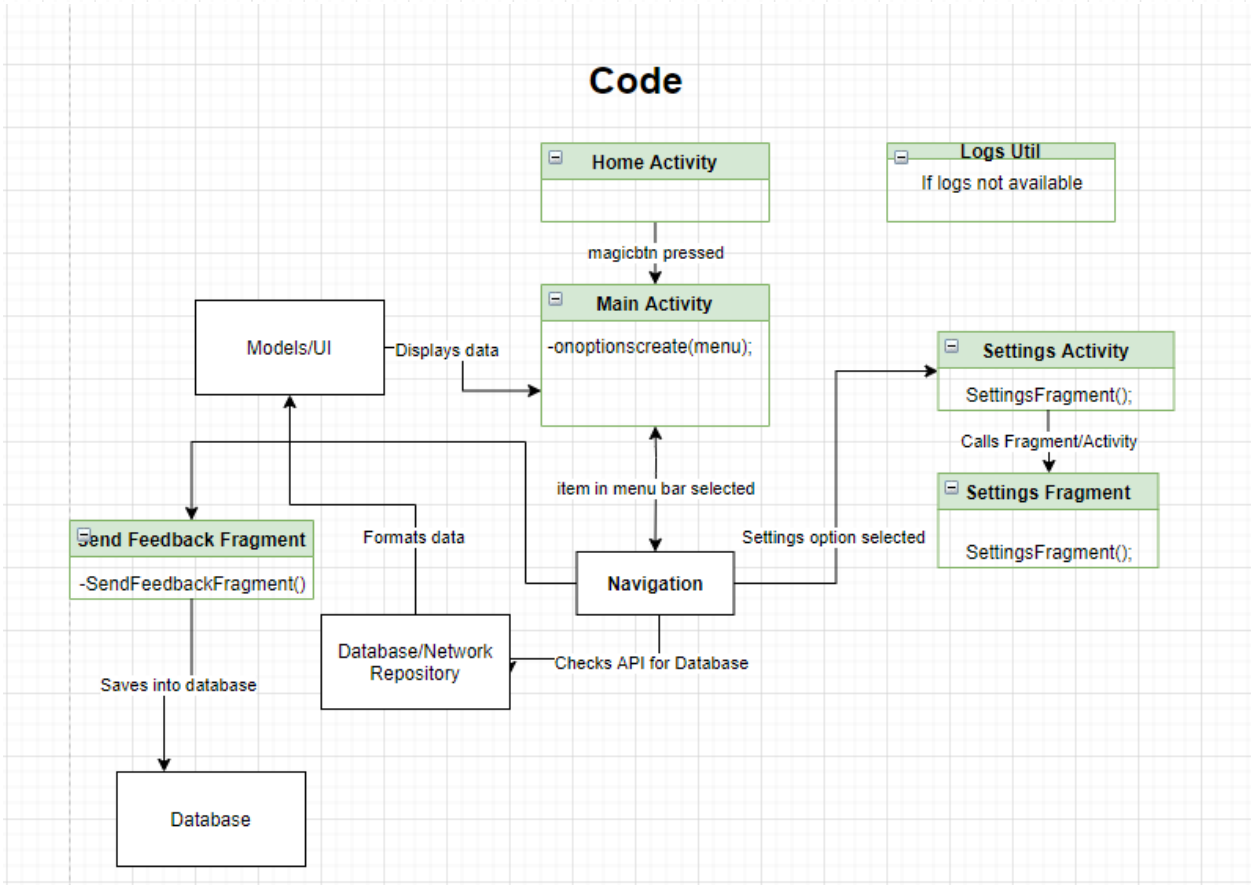
  November 14th
  - Release of Beta version and testing user experience, databases and APIs testing
  -Implement feedback (Send Feedback) and finalize project version(3-days)
  -Compile a master PowerPoint for presentation (2-days)
  -Present the project to class (1-day)

C4 Model:


Context
Covid watch user
Covid watch mobile application
World data representation system


Containers
Actor
Mobile application
Saves data into database
Retrieves data from API application
API application
Database


Components
Welcome screen
Select Procced Button
Mainscreen
Options Menu
API call and update mainscreen
API call and update mainscreen
API call and update mainscreen
Feedback form
Change Setting
World data
Select State (within US)
Select Country
Feedback Form
Settings Page
Saves response and saves to database
Database


Code
Home Activity
Logs Util
If logs not available
magicbtn pressed
Main Activity
-onoptionscreate(menu);
Models/UI
Displays data
Settings Activity
SettingsFragment();
Calls Fragment/Activity
Settings Fragment
SettingsFragment();
item in menu bar selected
Settings option selected
Send Feedback Fragment
-SendFeedbackFragment()
Formats data
Navigation
Database/Network Repository
Checks API for Database
Saves into database
Database