

COVID-19 Real-Time Android App

LOG BOOK

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Group No.: 15

Guide : Ms. Smita Dandge

Log Book

Project Name :- COVID-19 Real-Time
Android App

Group Members : ① Aditya Mishra
② Meet Mevada
③ Om Dubey
④ Sarvesh Karangutkar

Project Guide : Ms. Smita Dandge.

DATE :- 20/08/20 (Thursday)

Introduction to the subject 'Major Project'
This contains an project work and it is completely
an practical work.

We were told by our college teachers to
perform group among our class-mates and those
will be the members of your group through out
the project work. Each group should have atleast
4 members in it. The selection criteria for the
members are as follows:-

- ① 2 distinction students and 2 average students.
- ② 2 distinction students and 1 average and 1 "KT" student.
- ③ 2 average and 2 "KT" students.
- ④ 1 distinction and 1 average and 2 "KT" students.
and so on....

The purpose behind this is that the weak
students and the strong students should not
get separated. Instead they should come together
and work so that weak students can have
good guidance from their teammates who are
well in theory knowledge.

Finally after the entire week, next week
final submissions of group members was done.

DATE :- 26/08/20 (Wednesday)

After the formation of group members among the class-mates, we had submitted our group members list to the authorized teacher. Keeping in mind all the criteria the approval of group was done. And necessary changes were also carried out according to the requirements.

After the final approval the submission of group name was done. Our group had 4 members.

- ① Aditya Mishra
- ② Meet Mewada
- ③ Om Dubey
- ④ Sarvesh Karangutkar.

DATE :- 02/09/20 (Wednesday)

Group selection was almost done and today the group members had to submit the synopsis of the projects on which they thought they could work out.

Synopsis consists of a short history of the project. Each group had to submit at least 3 synopsis and after going through it, the teacher had to approve the project which she finds to be creative and different.

In case, if any of the 3 project are not selected, group members have to find some other new topics and have to work out to get some new project and ideas out which would be totally new and also upto the level of studies done by final year.

DATE :- 08/09/20 (Tuesday)

As per the synopsis, the final selection of the project was done. Here, mentor had gone through the synopsis and according to the capability of group members all the projects for each group were selected. Here, the project selection criteria also looks towards that any project themes should not be matched similar to others projects or last year projects.

"Covid-19 Real-Time Android App" was the project that was selected by the mentor for my group.

After this selection, we had to start our further work to make the project and make it an successful output. A period of approximate six - seven months was allotted for us to make the final project.

DATE:- 15/09/20 (Tuesday)

Starting the work to make the project was done from today,

First of all the basic information of the project were collected and the main purpose of the project was understood.

This was possible by reference of the following websites.

- ① <https://insert-koin.io/>
- ② <https://kotlinlang.org/docs/native-libraries.html>
- ③ <https://github.com/mindorksopensource/android-mvvm-architecture>.

These websites helped for gaining all the possible information of the project. The main task was set and the whole project was then divided into topics to be completed.

Information gained from the websites was noted down and rough idea was gained about how many parts the project can be divided and necessary things to be kept uncovered.

DATE :- 22/09/20 (Tuesday)

Today, we had studies about the "Operating environments". This is an important part to be studied as any project that is related to computers have to look up all the necessary requirements of the hardware and software parts.

Deciding what hardware and software are required also plays an important role. for hardware we require :-

- ① 512 MB RAM
- ② 640 MB Hard disk
- ③ Colour monitor.

The software requirement are :-

- ① Operating system : WinXP, 2000,
- ② Microsoft .Net framework.

Study of the above requires accessory was done in detail that's why and for what purpose they are mandatory.

DATE :- 29/09/20 (Tuesday)

Today, Project overview was studied. In this topic project specifications, problems definition proposed system and selection criteria was the sub-topics covered.

Overview was directed to the study of the "COVID-19 Real-time Android APP⁹⁹" in detailed history. All its advantages and disadvantages were covered. Also, how this SW will be different from others SW's that are already in existence was clarified. All its features and characteristics were covered as well as the system working was studied.

DATE :- 09/10/20 (Friday)

"Covid-19 Real-Time Android APP" visualizes global covid-19 data. we decided to start with data from India and its state and cities, and eventually move towards global data. we discussed the implementation of this idea of providing data from smaller towns and cities also.

DATE:- 15/10/20 (Thursday)

"Design Phase" was covered today. This include what all operation could be performed in "Covid-19 Real-Time Android APP". How it can make user comfortable with its environment by performing simple as well as complex operation "on our app using android studio".

We decided to place a dashboard of the covid cases data on the home page of our app. Further we planned to add a search page where users can search for essential help ons as according to the user's particular state or city. We decided to present all the covid cases data in numerical as well as graphical form for easy understanding.

DATE:- 23/10/20 (Friday)

"Class Diagrams" of the different design phases were studied. It included diagrammatic representation of classes for the coding part of the SIW. All the required material for each design was representation in the diagram.

State information could be obtained through these diagrams about the various stages that our SIW goes through.

DATE:- 29/10/20 (Thursday)

System Architecture was studied. This will show how the whole process will start and work towards the final output and what all internal process will be carried out to provide the requested action.

Also it included how the app will fetch data and present it to the user in a systematic format.

DATE :- 09/11/20 (Monday)

Coding part was started from today, after understanding and learning all the topics that are necessary and important features, the main coding was started.

The code contains many parts some as designs. The number of design phase were equals to the number of parts of the code. Each code has to be performed using algorithms for the phase. Today only the main class and header were designed according to the windows in which we has to run the programme and wanted the desired output.

DATE :- 17/11/20 (Tuesday)

Different UI components were coded today. Its algorithm, working, description and application were studied.

DATE :- 24/11/20 (Tuesday)

Today we coded Data and Essentialy. Its algorithm, working, description and application were studied.

DATE :- 01/12/20 (Tuesday)

Today we coded the Notification section of our app. Its algorithm, working, description and application were studied.

DATE :- 09/12/20 (Wednesday)

We coded Dashboard and its sub-topics. Every sub-topic had its own algorithm or description which was completely studied.

The sub-topics were as follows:-

- ① Home Fragment.kt
- ② Home View model.kt
- ③ MyXAxis ValueFormatter.kt

DATE :- 18/12/20 (Friday)

Today we coded the drawable, layout and values folder of every component added in the code. It was necessary to code these sub-folders because they form a crucial part in the main component.

Next we started to add png files wherever necessary. Most of the png files were used as icon of different section in our app.

DATE :- 28/12/20 (Monday) [PO - 37A0]

Today we added the code of the data which was fetched with the help of an API. The data included stats of covid cases of India and its states and cities.

Total covid cases, recovered cases, deaths and essential help ons aids all those data which is to be fetched ^{was} in coded.

DATE :- 06/01/21 (Wednesday)

Debugging of the code was done the code was written last time. Checking the code, finding errors, removing errors, etc was also done.

During debugging, also some required changes was done and the whole code was made bug-free at the end. This completed almost 90% of the project work today along with the coding.

DATE:- 14/1/21 (Thursday)

Testing Detail were set today. Each S/w is mandatory to get started to find bug-free S/w for future use. There are many types of testing technique in the market But all can't be used on a single S/w.

Also, some amount of details studying was done to better understand the testing technique for the project and how they are the importance of these techniques was also studied to get the knowledge.

DATE:- 21/1/21 (Thursday)

Software maintenance was studied after the S/w was ready. It includes codes to maintain the S/w, the source code.

Created back-up for the S/w, in case of any problem it could be helpful to save the project.

Covered all the topics related to the S/w maintenance that were necessary to make the project run in our real world also.

DATE :- 12/02/21 (Friday)

Preparation of the Black Book format was started according to the provided format by the IEEE and the soft copy of the Black Book was prepared and the contents were gathered for it.

Final running / execution of the project was tested on different computers to check its portability.

DATE :- 24/02/21 (Wednesday)

Future scopes of our app were discussed and enlisted. Due to limited we couldn't add all the features in our app, so we added those features in the future scopes.

DATE :- 19/03/21 (Friday)

The whole project was ready. Today presentation slides were prepared for the project information, design, process and performed output as examples.

DATE :- 14/04/21 (Wednesday)

Final touch-ups were given to the whole project wherever it was necessary. After these final touch-ups the code was executed successfully once again.

Date

DATE :- 29/04/21 (Thursday)

Today, final submission of our Black Book was done to our project mentor. Next, our mentor checked our project demonstration. We also gave our project presentation.