



SUMMER INTERNSHIP REPORT

Under Supervision of
Ankita Wadhwa Ma'am

(Duration: 3rd May, 2020 to 15th June 2020)

Submitted by:

Shivam Rajpoot 17803004



Jaypee Institute of Information Technology

(Declared Deemed to be University u/s 3 of the UGC Act)

Date: 01-10-2020

CERTIFICATE OF COMPLETION

Ref. No. CSE/62/INTERN/093

This is to certify that Shivam Rajpoot (17803004) s/o Mr. Jagmohan Rajpoot, a student of B.Tech. (CSE) of Jaypee Institute of Information Technology has successfully completed the 6 weeks (05 May 2020 – 17 June 2020) long internship programme under the supervision of Ms. Ankita.

The intern is found to be punctual, enthusiastic and hardworking.

We wish all success in his future.

Prof. Vikas Saxena

Head, Dept. of CSE & IT,

Jaypee Institute of Information Technology, Noida

Date: 01-10-2020

Acknowledgement

We would like to express our deepest gratitude to our Supervisor Ankita Wadhwa Ma'am, Department of Computer Science and Engineering, Jaypee Institute of Information Technology, Noida for his constant guidance and encouragement in this project work. The credit for the successful completion of this project goes to him without whom our endeavour would have been futile. We owe our sincere thanks to the panel in our project presentation who have contributed in improving our presentation skills with their comments and advice. Lastly, We would like to acknowledge the crucial role of the staff of the CSE Department who have always been willing to help us with their abilities whenever needed and also like to thank the university for providing us with the opportunity to do an in-house internship.

Shivam Rajpoot 17803004
Date: 15 - 06 - 2020

Tools/Technologies Used - Front-end Mobile Development (Android)

Weekly Progress Report -

Day	Description of Work Done
Mon	Starting of the new course for android app development from course-era. Some Components of Graphical User Interface were made clear like layout and adding actions.
Tue	Learned about various building blocks of android app development, wire-frames, mock-ups and prototypes.General Rubric qualities of android app. Small quizzes regarding the learned topics. Tools used for converting the wire-frames to final prototype for testing.
Wed	Thought about the 1 st application of mine. Gave it for the review on the course-era platform. Started the basics of Android Studio, got tested on the basics of android studio, created a very simple application, with the help of Android Studio to understand the working of Android Studio.
Thur	Developed the 1 st application. Just a distance converter which helps in converting distance from miles to kilometers and vice-versa.
Fri	Learning about the developer's side of the basic application which were earlier introduced as basic building blocks of Android app Development.
Sat	Developer's side of the building block 1 : Buttons and toasts. This module had a detailed description of the fore-mentioned building block. Developed a very basic application to use the different functions of the buttons by hard-coding the java file.

Day	Description of Work Done
Mon	Developer's side of the building block 2 : Clickable List in Multiple Languages. This module had a detailed description of the fore-mentioned building block. Developed a very basic application with a simple list view which shows a pop-up when clicked on the list item.
Tue	Block 3: Layouts. The code behind the layouts of android application development. Organizing views on the screen using different layouts. Adding images and buttons on the screen.
Wed	Revision and quizzes for the topics learned so far in the course.
Thur	Block 4 : Playing Sound and Using a Switch. The JAVA code behind it. This is the simplest logic behind any music application which is used in every music or any media playing application. Block 5 : Saving Preferences and using Radio Buttons. The history of the application was saved using the preferences and this saved information was retrieved and used for saving starting the application from where the user left it.
Fri	Block 6 : Images and Seek Bar. Learned about the addition of images and the seek bars on the GUI in an android application. The application of it and the JAVA code behind all this
Sat	Block 7 : Displaying Web Pages in the application, and using a number picker to let us choose between multiple texts. Declaring the new permissions needed by the application and some alteration of AndroidManifest.xml file.

Day	Description of Work
Mon	Block 8 : Multiple Activities, with explicit intents. Creating a simple application with multiple activities.
Tue	Block 9 : SMS application, with implicit intents. Requesting a service from SMS application of the phone which involves implicit intents.
Wed	Connecting the application to internet. Learned about the role of internet in the android application, adding permissions in the code for accessing the internet.
Thurs	Learning about activity life cycle and log. The one where we learn to send the commands to the emulator. Learned about the Activity Life Cycle of Android Applications and the Log Class used for debugging.
Fri	Taking the final quiz on the coursera platform.
Sat	Starting to Code the application.

INTRODUCTION

Problem Statement : Building an android application for Android 6.0 and above with API 16 and above for the online course website acting as a mobile interface for the user.

Application Description : The application acts a simple interface for a online courses website with multiple activities and giving the user a choice to add any course of his/her choice and remove the ongoing courses in the dashboard.(Basic application not with real time application.) The application consists :-

- 1) The Welcome page
- 2) The login page
- 3) The Sign-up page
- 4) A My Profile page
- 5) The Logout Button
- 6) The Home Page

Specifications :

The Welcome Page :

It is the first thing which gets open when we start the application on our mobiles. It automatically redirects us to the Login window without any user interaction.

The Login Page :

It appears after the Welcome page. User needs to enter the E-mail ID and password if he/she has already registered in the application. It also shows the “Create an Account” which gets us to the Sign-up page. If the login is successful the application takes the user to home page else the corresponding error is displayed the the login is unsuccessful.

The Sign-up Page :

It has the E-mail ID , Password and a confirm password fields. It has the Register Me button which registers the user successfully and stores the data entered by the user in the form of Android Preferences. It has the “I have an existing account” for the users to go back to the login window if the entered the sign-up page by mistake.

The Home Page :

It has the various available courses for a user to add any of the course he/she wants to study. The course opted is then displayed in the dashboard of the user. The top of the Home Screen has a message “Welcome, user” by default which is the replaced by the “Welcome, ‘username’ ” once the user has successfully registered.

My Profile Page :

It is the dashboard for the user containing the name of the user and the courses he/she has currently opted. There is the option to remove the course from the ongoing courses if the user wishes to do so. On the upper right corner there is the Logout button, once the user has done his/her business with the application he/she can logout from the application.

The Logout Button :

The Logout button enables the user to logout from the application after his/her work is done.

After the user logs out of the application, it goes to the home page with the list of all the courses and the “Welcome, user!” message displaying on the top.

Screenshots of the Application

19:28 0.0KB/s 4G LTE 30

Email

password

confirm password

Register me

[I have an existing account](#)

The Sign-up Page

19:29



0.0KB/s



4G

Von
LTE



abcd@gmail.com

.....

.....

Register me

I have an existing account

The Sign-up Page after entering the details

19:29

...

0.0KB/s

4G

Von LTE

30

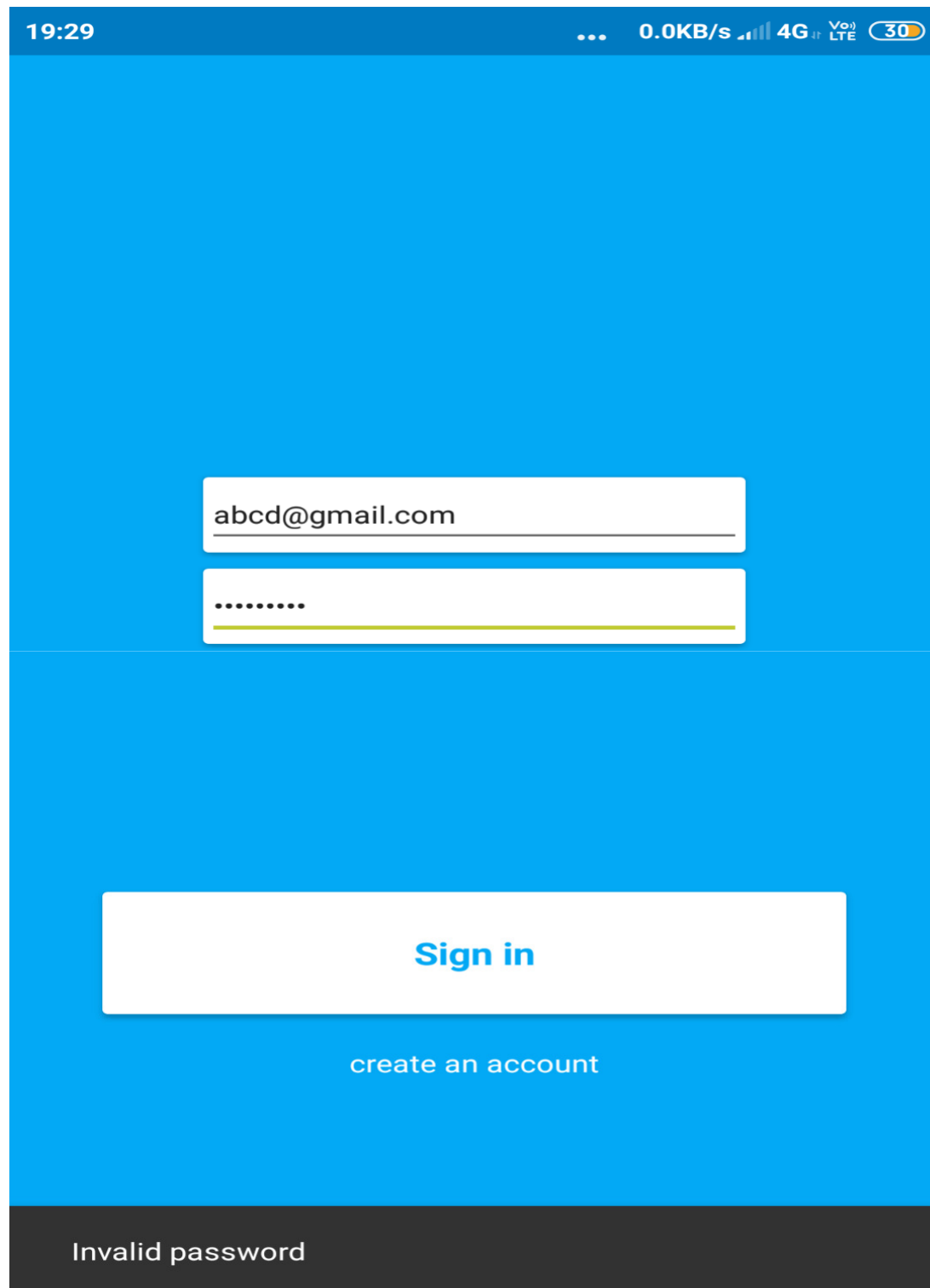
abcd@gmail.com

.....

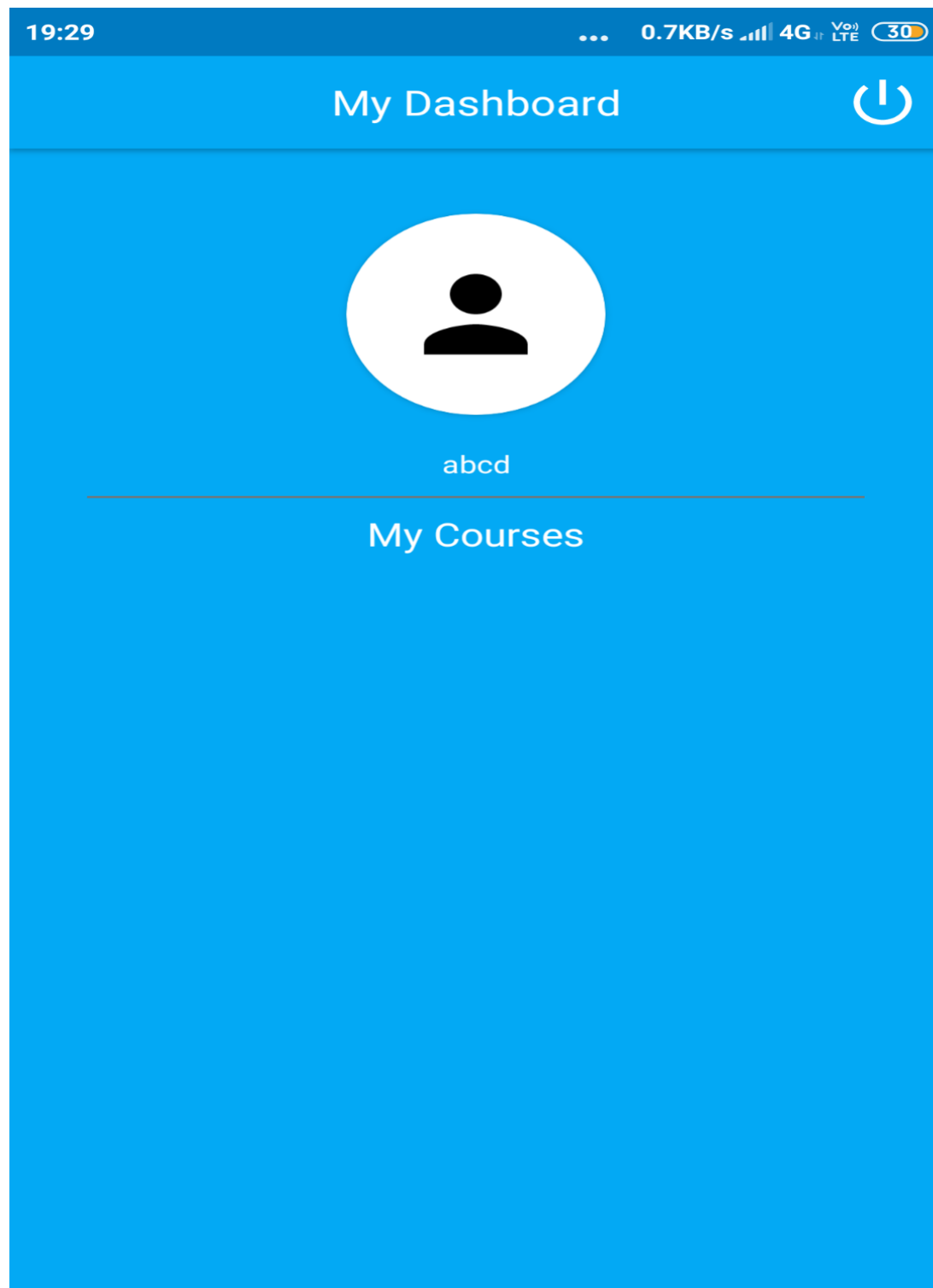
Sign in

create an account

The Login Page



The Login Page when the password entered is wrong



The Profile Page with no courses opted by the user

19:29

... 0.2KB/s 4G VoLTE 30

Welcome, abcd!



Available courses



Course Title #1

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed



Course Title #2

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed



Course Title #3

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed

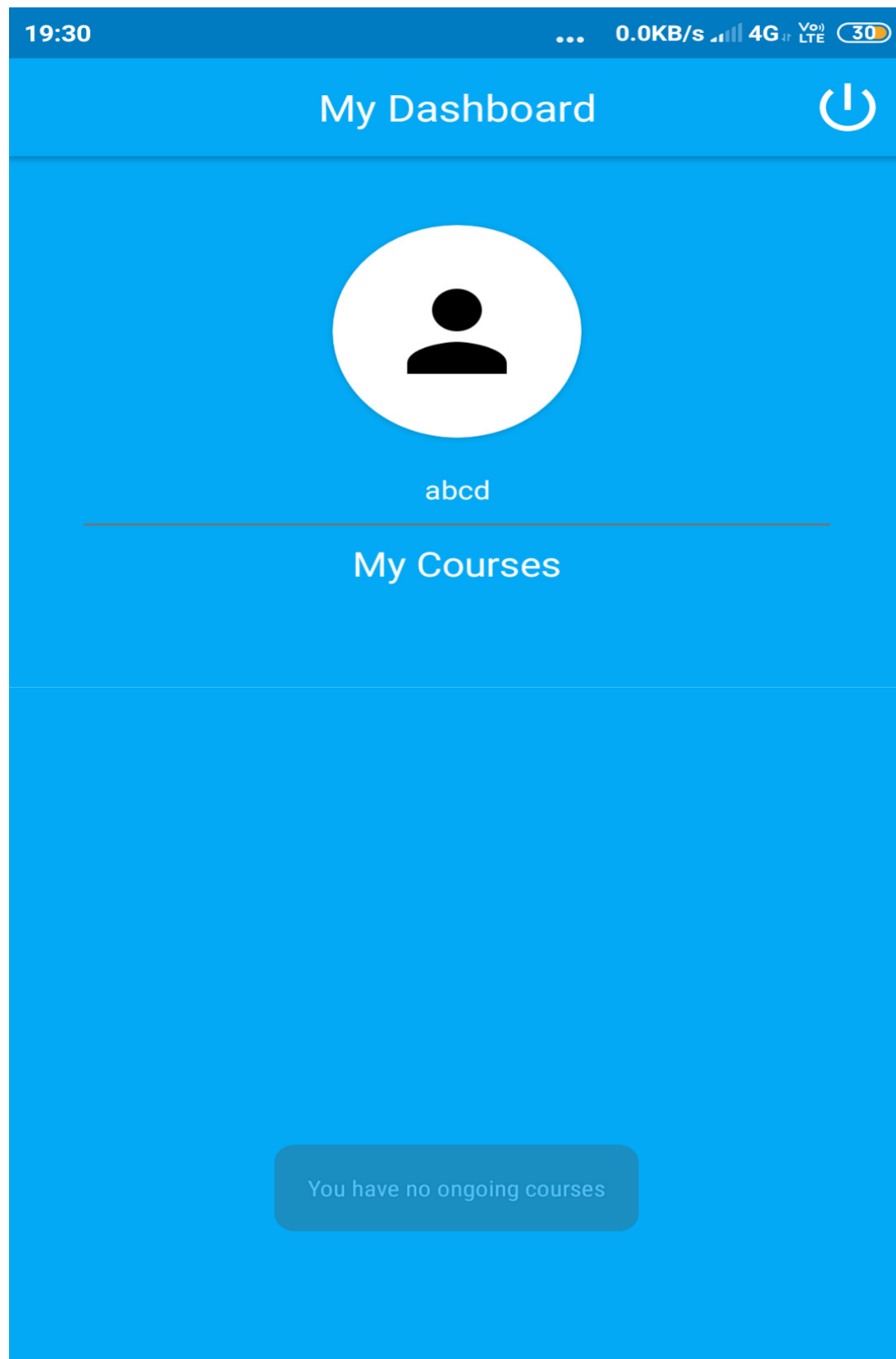


Course Title #4

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed



The Home Page with various courses available



Dashboard with the pop-up of no ongoing courses

19:30

0.0KB/s 4G LTE 30

Welcome, abcd!



Available courses



Course Title #1



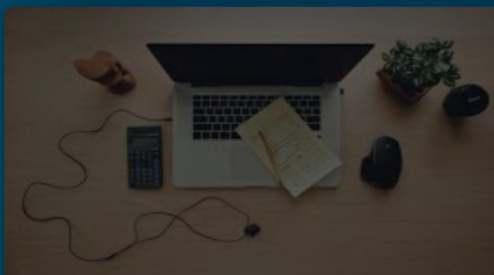
Course Title #2

Add Course?

Do you want to add the following?
Course Title #2

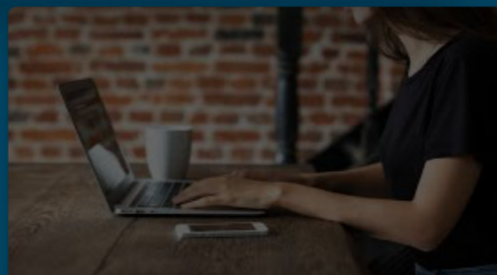
NO

YES



Course Title #3

Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed

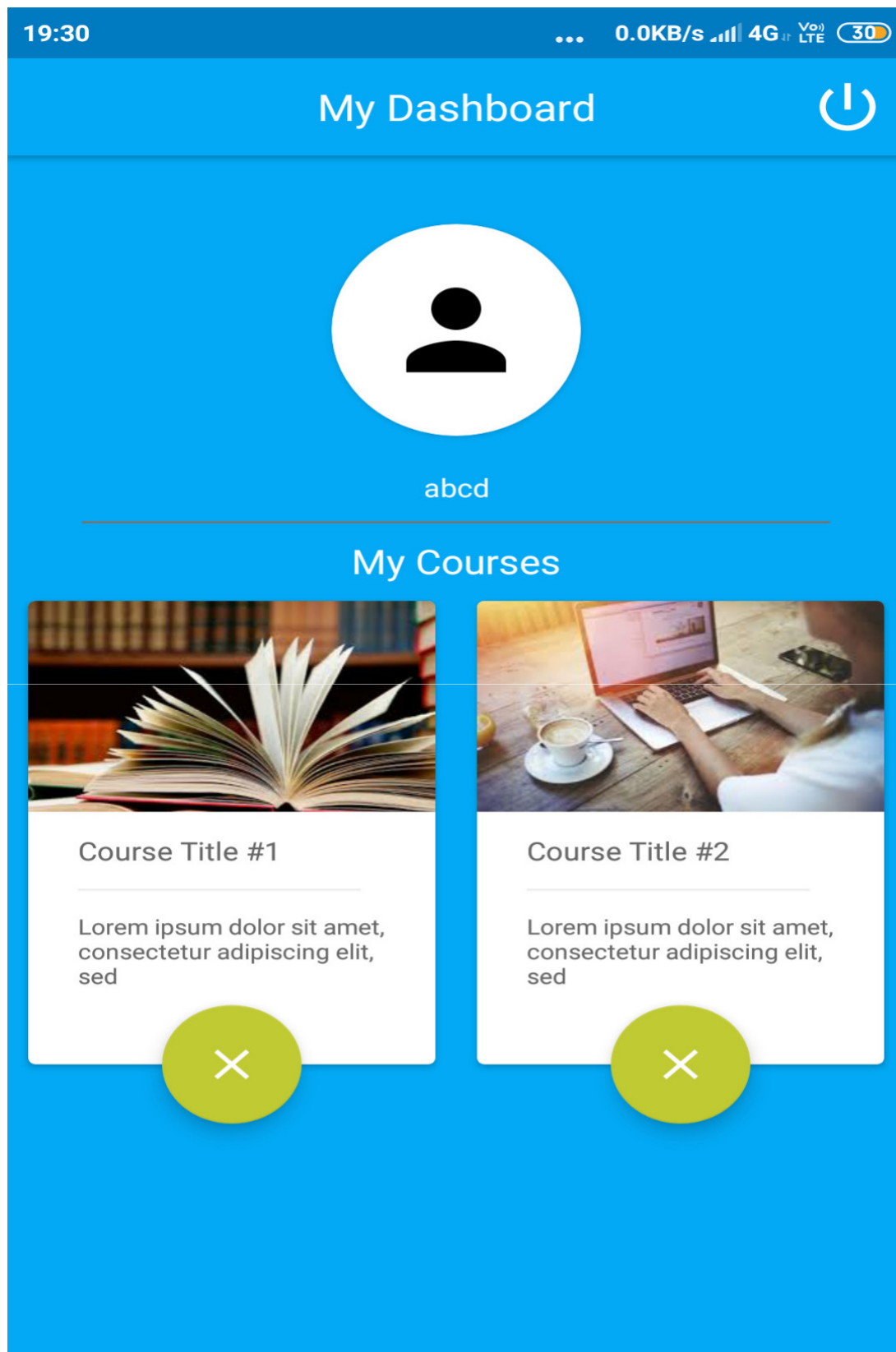


Course Title #4

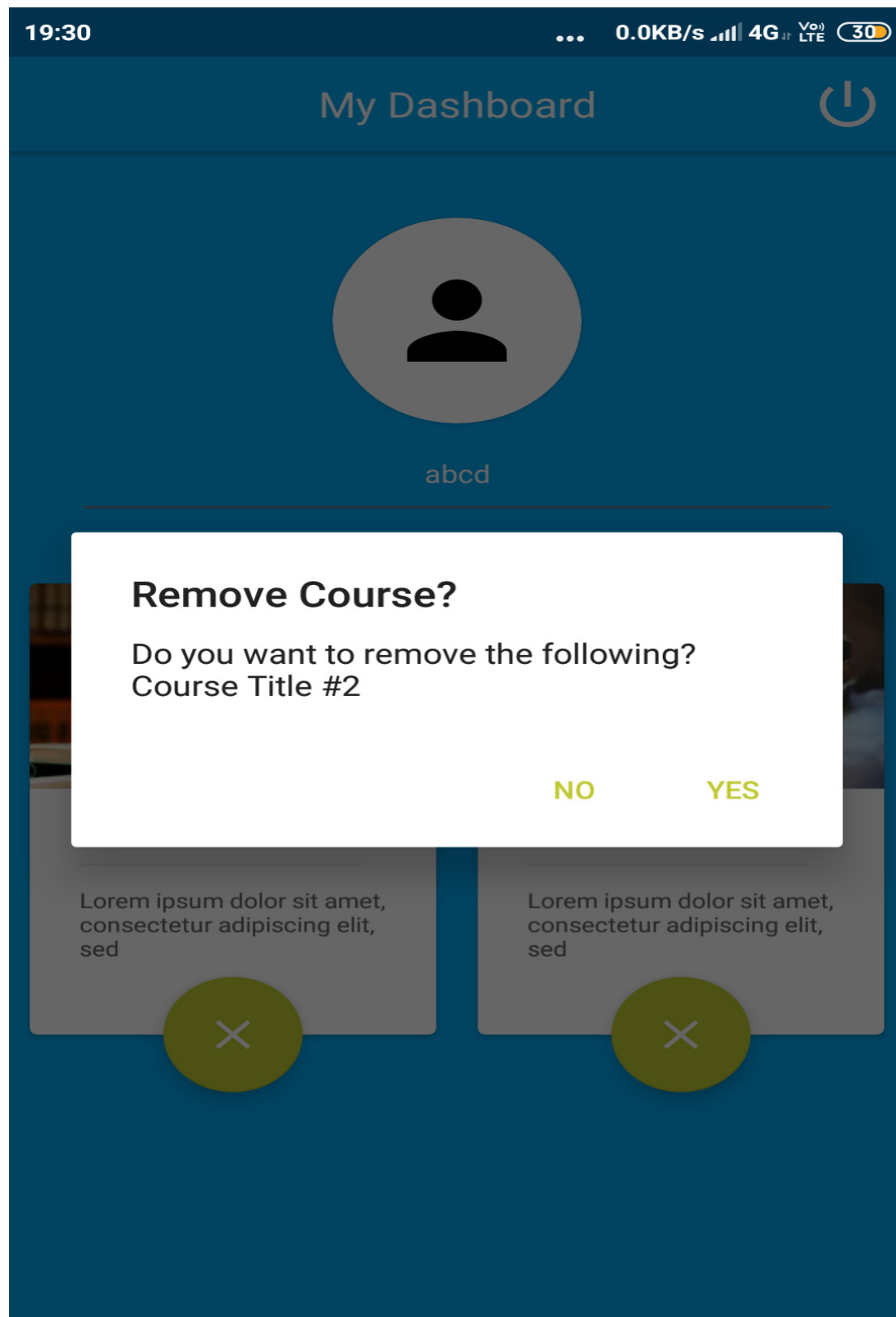
Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed



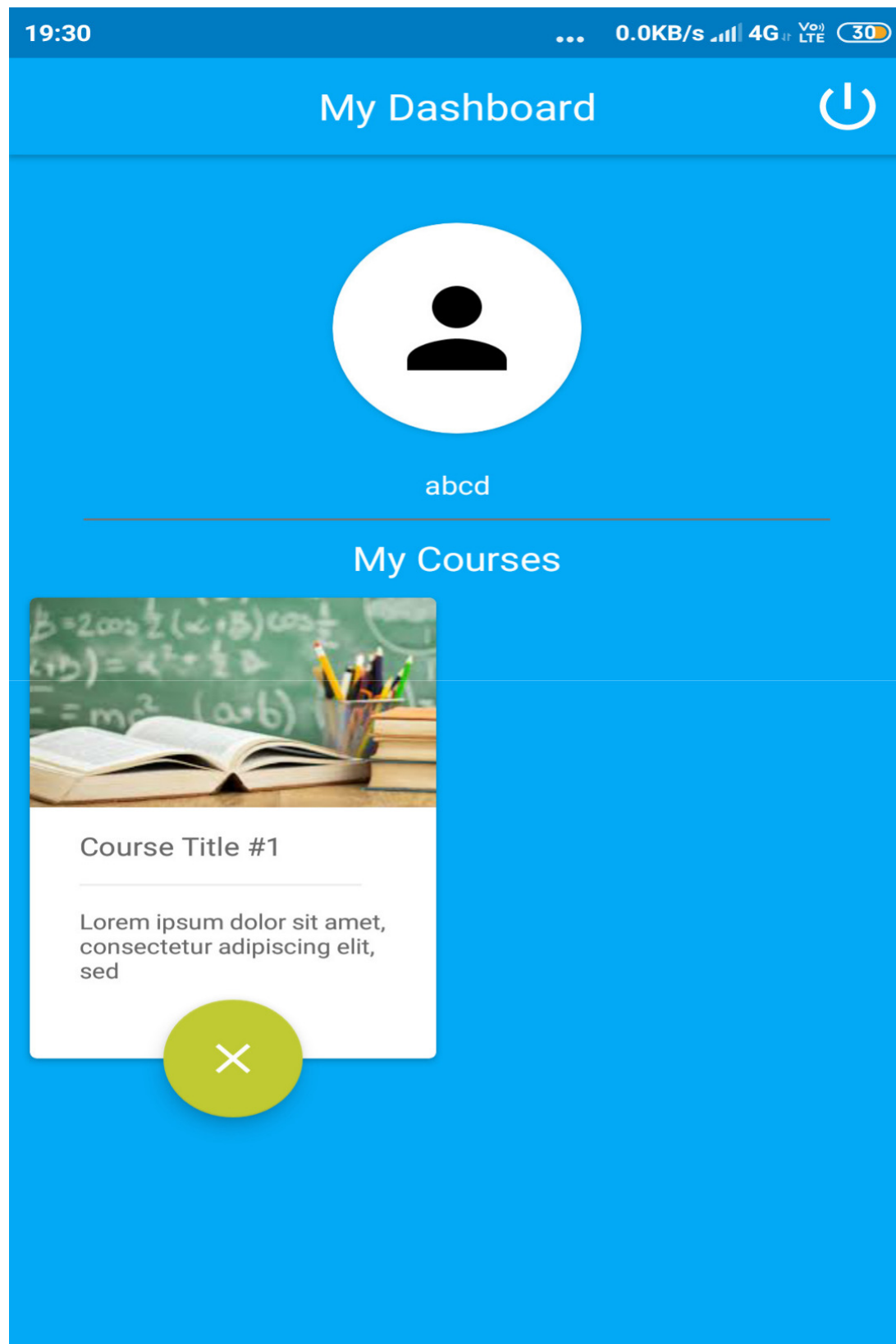
Home Screen with the Dialog Box for adding a new course when clicked on +



Dashboard with multiple added courses



Dashboard with the dialog box to remove course



Dashboard after the course is removed

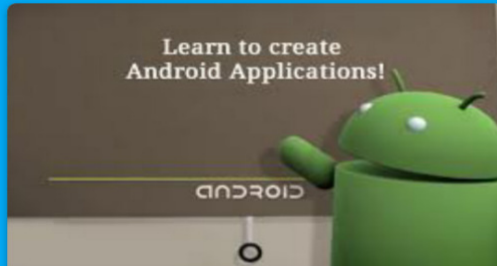
19:30

0.0KB/s 4G LTE 30

Welcome, user!



Available courses



Course Title #1

Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed



Course Title #2

Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed



Course Title #3

Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed



Course Title #4

Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed



Home Screen after logging out from the application