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## Programming Courses Center

### Description

Start your programming career , with it sharks programming center you can start learning Programming from zero.

Now with our mobile app ,you can register faster ,see all courses,instructors,

Our place and contacts.

Our web site "<http://it-sharks.com/>"

### Intended User

Students

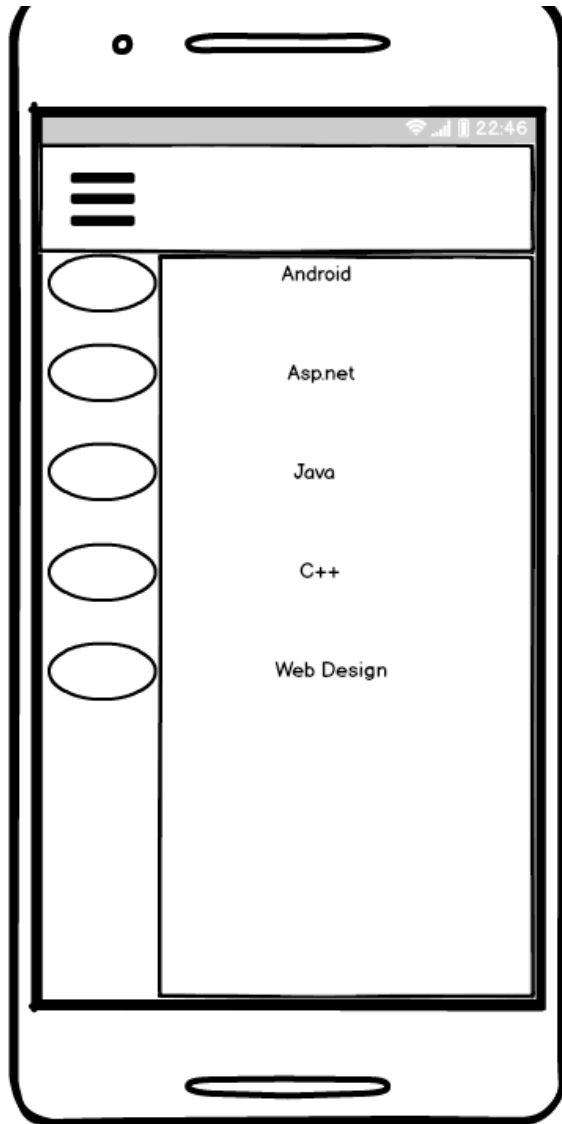
### Features

- Authenticate the user.
- Display some courses.
- Display instructors.
- Display course information and course content.
- Display contacts of the center.

- Display place of the center on maps.
- Allow the users(students) to submit reviews.
- Allow the users(students) to see reviews of other students.
- Allow students to register at specific course.
- Save students data and reviews on the server.

## User Interface Mocks

### Screen 1

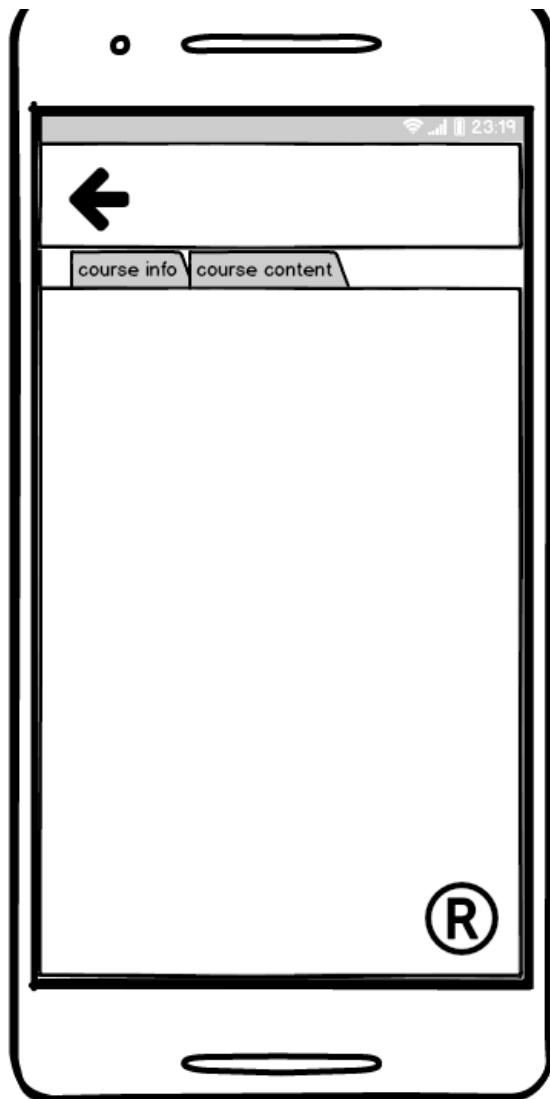


This the main screen :-

I have android sliding menu using navigation drawer in the main screen which display all the application features (courses,instructors,location,contacts,reviews.....).

Int this screen i have list of courses and its circle images provided from the database using content provider.

## Screen 2



When the user select a specific course this screen is launched.

It contains tab layout with two fragments (course info, course content)

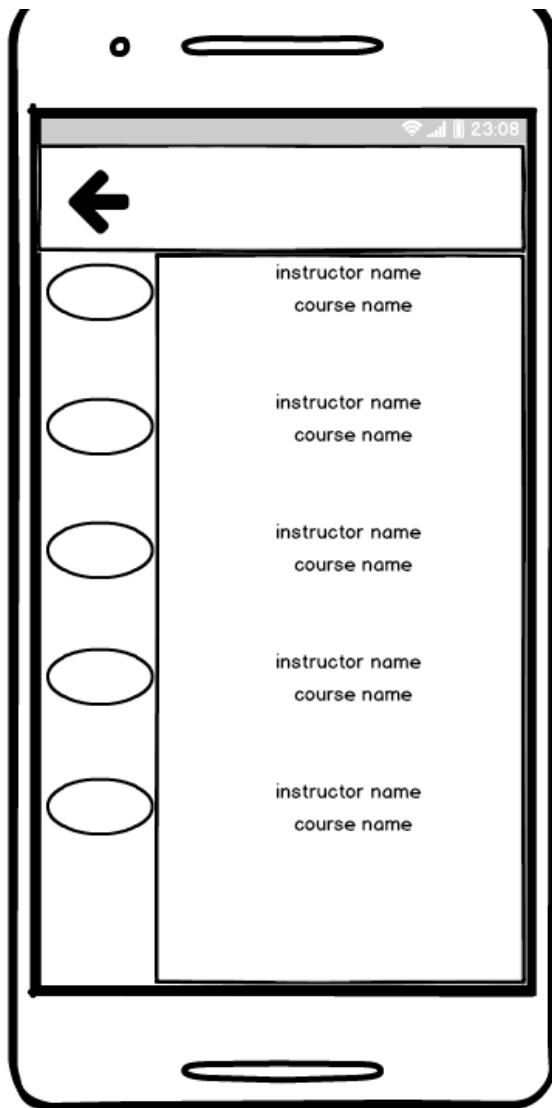
- Course info tab display course name ,number of weeks and number of hours.
- Course content tab contains string of the content of the course.
- Floating action button to register into the course.

### Screen 3

The image shows a mobile application interface for a registration screen. At the top, there is a status bar with a back arrow icon, signal strength, and the time 23:36. Below the status bar is a header area with a large back arrow icon. The main content area contains five text input fields, each with a label to its left: 'First Name', 'Last Name', 'Phone Number', 'Email', and 'Facebook'. At the bottom of the form is a 'Register' button.

This screen is launched when the user press on the floating action button. It contains some text inputs to take user data and submit it to the server.

## Screen 4



when the user select instructor from slide menu this screen is launched.  
It contains a list of instructor name , name of the course which he teach and instructor image

## Screen 5



This screen is launched when the user select location from slide menu.  
It use geo location and intent to open google maps app and display the location of the center on the map.

## Screen 6



This screen launched when the user select contacts from the slide menu.  
It contains address of the center, mobile phones, facebook page, google plus and linkedIn .  
These image buttons like facebook when pressed open the target page using intent.

## Screen 7

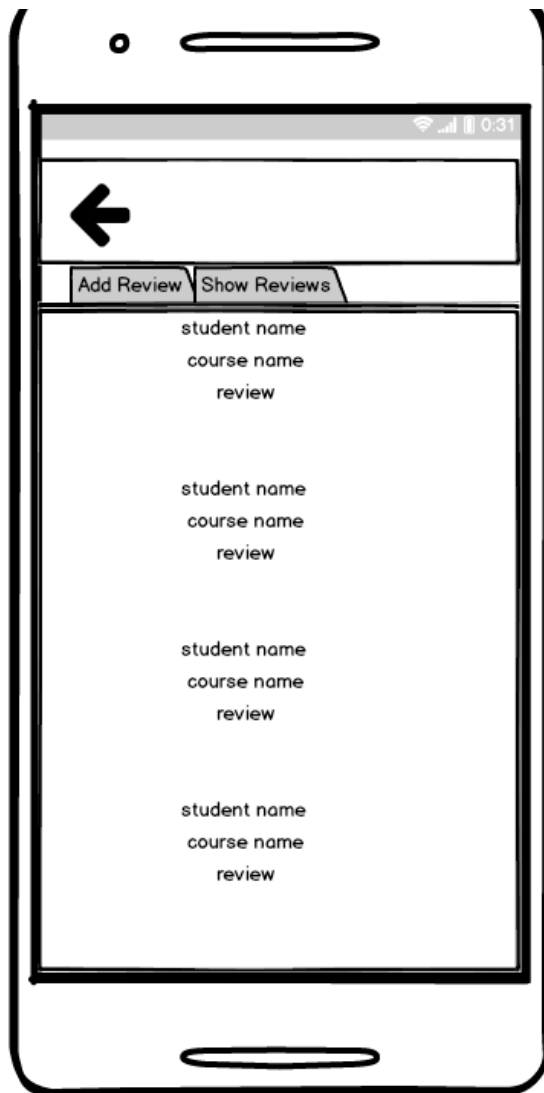
The image shows a hand-drawn UI mockup of a mobile application screen. At the top, there is a status bar with a back arrow icon, signal strength, and the time 0:16. Below the status bar is a header area with a back arrow icon and two tabs: 'Add Review' and 'Show Reviews'. The main content area contains three input fields: 'Student Name', 'Course Name', and 'your Review'. Below these fields is a 'Submit' button. The entire screen is enclosed in a rounded rectangle representing a mobile device.

This screen launched when the user select review from slide menu and select add review from tab layout.

The user input the data and press submit to save your review on the server.



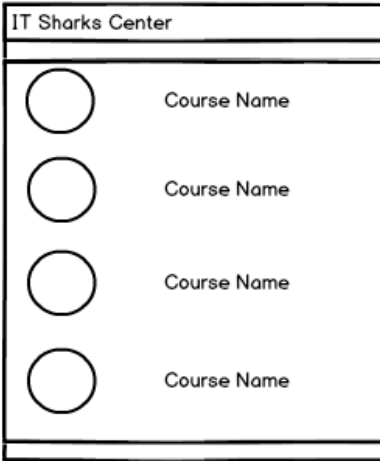
## Screen 8



This screen launched when the user select review from slide menu and select show reviews from tab layout.

It contains list of student reviews comes from the server

## Screen 9



This screen represents the app widget  
It contains a list of courses name and their image.

## Key Considerations

### How will your app handle data persistence?

In this project I have two types of data persistence :-

- 1) Fixed data (courses ,instructors ,center contacts .....)
- 2) data comes from the server as a JSON format (student reviews).
- 3) Data send to the server .

The fixed data I'll handle it using content provider .

The student reviews I'll cache it ,so students can see offline.

### Describe any corner cases in the UX.

When the app launches it display in the main screen list of courses

Allow user to tap on the course and transition to course info and course content

To see the details of the course and register.

### Describe any libraries you'll be using and share your reasoning for including them.

- 1) Volley library to handle internet requests.
- 2) Design library to add beautiful material design.
- 3) Butterknife library to replace "findViewById".
- 4) Debug-db library to debug the database.
- 5) Ads library to implement Ads in the app.
- 6) Firebase core library to connect app to firebase.
- 7) Firebase Authentication library.

### Describe how you will implement Google Play Services.

Describe which Google Play Services you will use and how.

- 1) Connect my app to firebase (through configuration file which downloaded from the firebase site and put it in my app).
- 2) I'll add Ads in my App.
- 3) Authentication process using Firebase.

## Next Steps: Required Tasks

### Task 1: Project Setup

- Configure Libraries
- Connect the app to the firebase

### Task 2: Implement UI for Each Activity and Fragment

- Build the slide menu using navigation drawer
- Build UI for MainActivity(courses screen)
- Build the list item for course list ,instructor list and review list.
- Build UI for course content fragment and course info fragment.
- Build UI for tablet mode in the main activity.
- Build UI for Instructors Activity.
- Build UI for contacts Activity.
- Build UI for add review fragment and show reviews fragment.

### Task 3: Create the Database

- Create Contract class .
- Create dbHelper class.
- Implement content provider class.

### Task 4: Create Adapters

- Create Adapter to courses list.
- Create Adapter to instructor list.
- Create Adapter to review list.

### Task 4: Configure The Server

- Create local database on the pc using localhost php my Admin (XAMPP).
- Make web services to handle data exchange between server and app using php.

- Implement sync Adapter to regularly pulls or sends data to/from a web service and cache them at my app.

## **Task 6: Implement Google Play Services**

- Add Ads to the Application.