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## TechApp

Programming Languages: "Java language will be used for development"

I will be using stable versions of all libraries, Gradle and Android Studio.

plugin to version 3.5.0	'com.android.tools.build:gradle:3.5.0'
ButterKnife library	'com.jakewharton:butterknife:10.1.0' 'com.jakewharton:butterknife-compiler:10.1.0'
Google play services	'com.google.android.gms:play-services-plus:17.0.0'
Google Account Login	'com.google.android.gms:play-services-auth:17.0.0'
Firebase	'com.google.firebase:firebase-auth:19.0.0' 'com.google.firebase:firebase-firestore:21.0.0'
	minSdkVersion=21

### Description:

TechApp: The number of private teachers increases dramatically, making it difficult for parents to know the best private teacher to teach their children. Therefore, this application will be built and designed to be for each private teacher a profile of his own personal information and materials that can be taught with the evaluation of this teacher by the parents of students who have been teaching their children and through this site

parents can communicate with the teacher through a call or text message. Parents can also save this teacher favorite to communicate with him later.

## **Intended User:**

Parents of students, students themselves and private teachers.

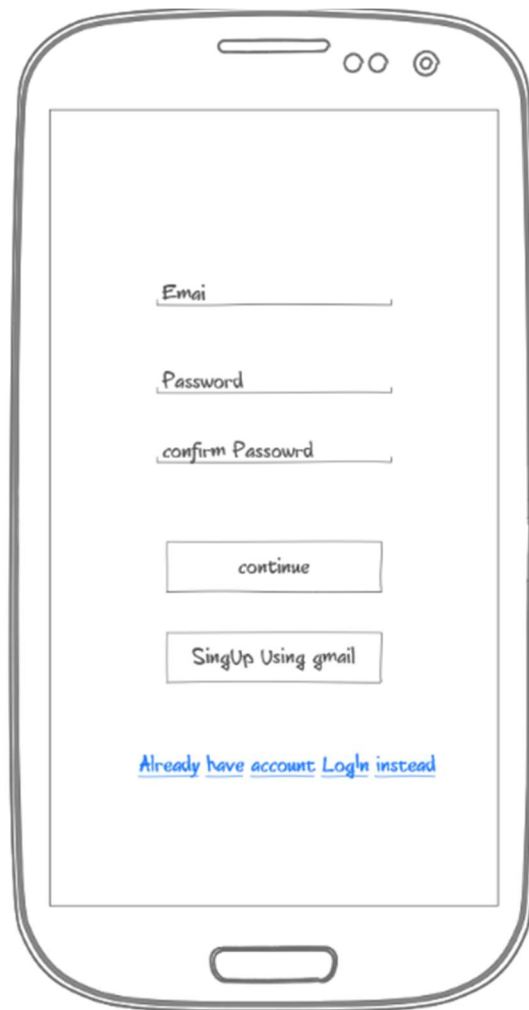
## **Features:**

1. Contact the teacher by make a quick call.
2. Send a text message" SMS" to the teacher.
3. The user can sign in through the email account.
4. Save teacher data.
5. Save the evaluation of the teacher and make it appear for the people
6. The app includes adverts.
7. Student receives a real time notification when teacher make a request for him.
8. Student can't make elevation for any teacher before take a course with him.
9. The search can be by enter the user name of the course name.

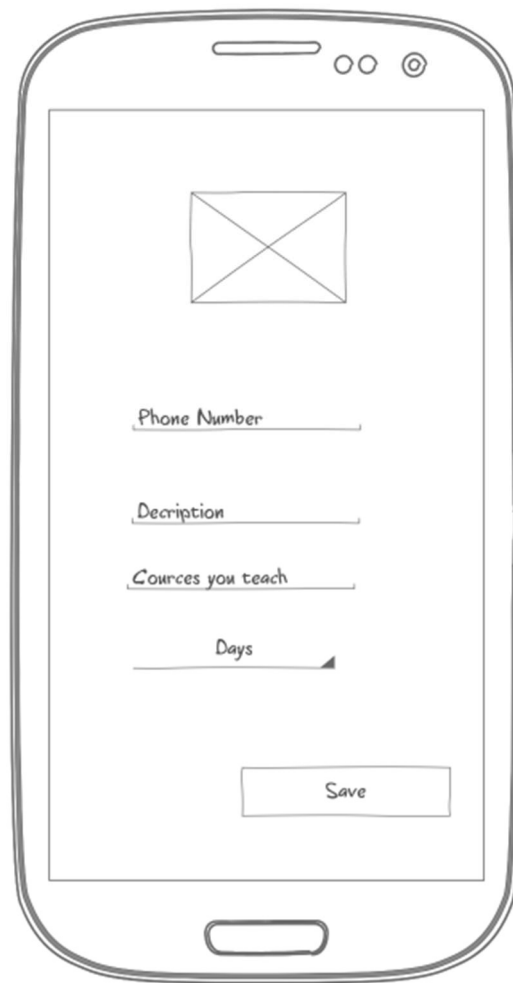
## User Interface Mocks:



## Login Activity



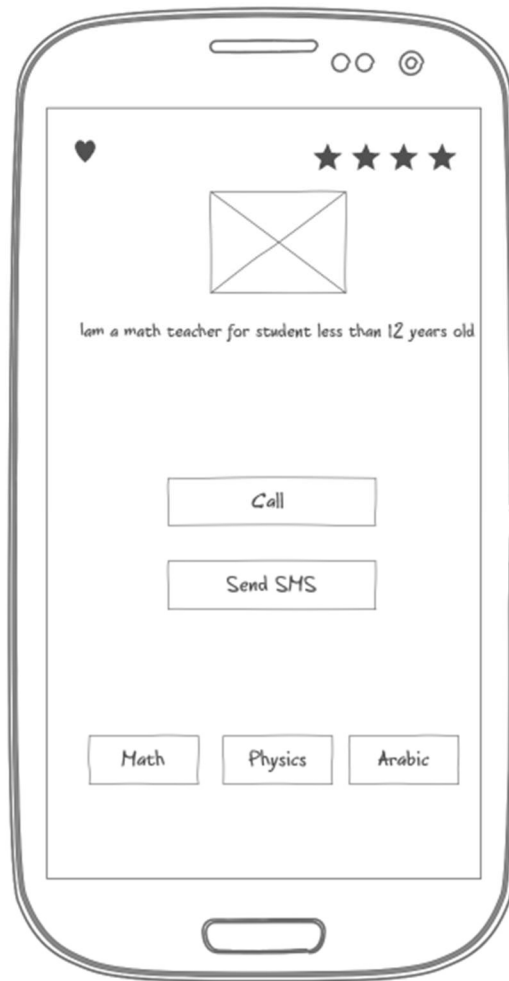
## Signup Activity



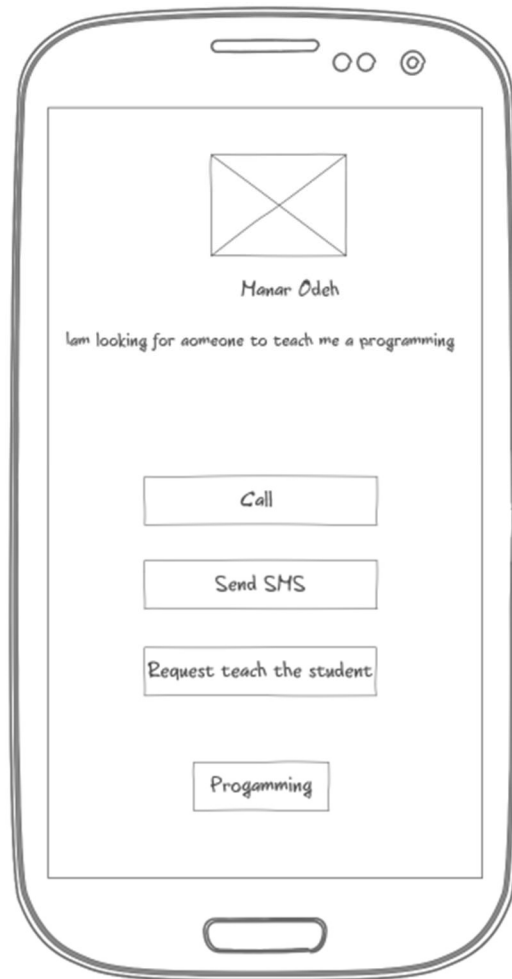
**Continue signup for teacher**



**Continue signup for student**

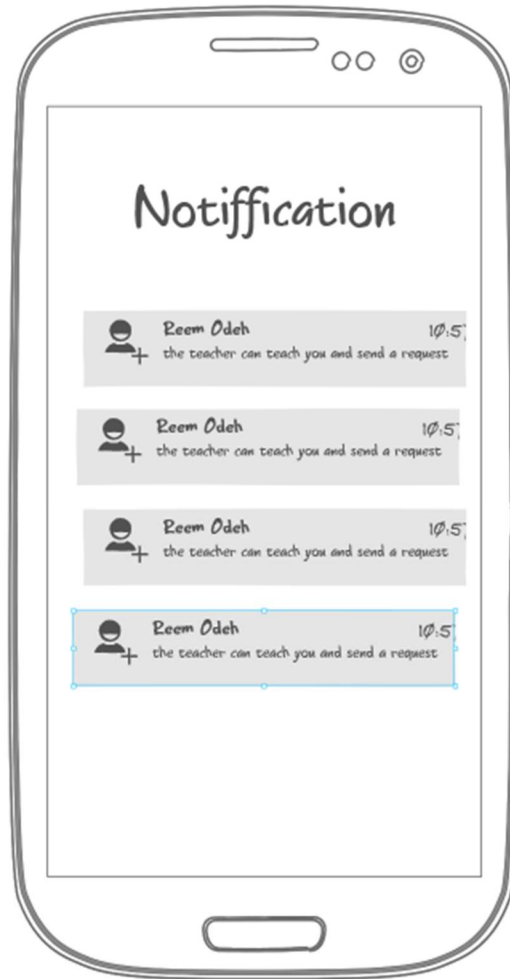


## Teacher Profile

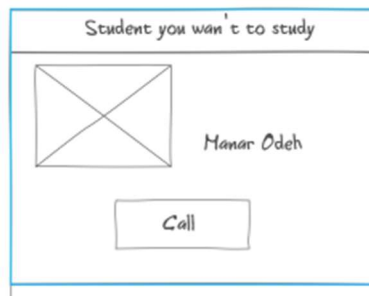


**Student Profile**

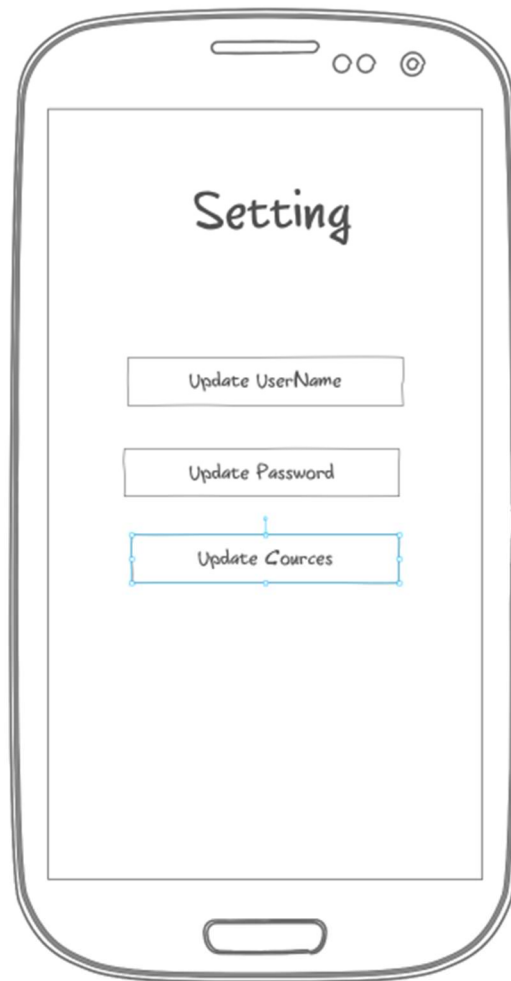




## Student Notification



## Widget for save student or teacher



## Setting Activity

How will your app handle data persistence?

By using firebase Realtime Database.

Describe any edge or corner cases in the app?

both of the student and teacher can make a request to each other and student can't evaluate any teacher before take at least a course with him. So, if the user hit to evaluate any teacher that didn't take any courses with him a warming dialog will appear.

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

Picasso to upload the image properly and handling and caching the images, butterknife.

## Describe how you will implement Google Play Services or other external services?

first setting up google play services, by adding the google play services. by adding the necessary dependency in the gradle file and adding the necessary permissions, sync the project with the gradle file and then start using and implement the service as the documentation describe.

I decided to use a google play service to login by using email account to make the process for login or signup easier for the user. And I decided to show Advertisements to the user by using google play service to gain money☺.

### **Technical steps:**

#### **Task 1: Project Setup:**

1. Create new projects.
2. Add necessary library (firebase, butterknife, google play service, Picasso)
3. Add necessary permissions (Internet, Contact...etc.)

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

1. Start Implement UI for Login, signup Activity.
2. Implement UI for Profile Activity for each teacher and student.
3. Implement fragment for notification, request, setting page...etc.
4. Implement widget to show necessary information about teacher, student.

#### **Task 3: Supplying the necessary class work for data bases:**

1. Start build a student, teacher, notification class.

#### **Task 4: Build a special class for the work achieved some of the validity of some data:**

1. Validate name, password, phone number, user name... etc.

**Task 5: start implementing the interfaces that have been designed:**

1. Implement each necessary Recycle View (notification, search result,).
2. Start implement each activity by connecting the activity with necessary received data from data base.
3. Implement login and signup by using email accounts.
4. Implement Realtime notification when student make a request for the teacher or when the teacher make a request.
5. Implement search for a teacher by enter his name of by enter a specific material and randomly shown all the teacher that can teach this material.
6. Implement contact with any teacher by make quick call or sending an SMS.

**Task 6: make sure and check that the app will work correctly in all cases and check that my app has Fulfills these conditions:**

1. keeps all strings in a strings.xml file and enables RTL layout switching on all layouts.
2. Java language will be used for development.
3. My app includes support for accessibility. And will includes content descriptions.
4. Using AsyncTask when user make a search to get the result.
5. Using widget for display teacher information will the user want that

**Material Design:**

- My App theme will extend `AppCompatActivity`.
- My App will use an app bar and associated toolbars.