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# **Study Seek**

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#### ABSTRACT: -

In recent times education is one of the major thing affected due to pandemic so to make online education easier we have made an Android app design to find the perfect study group and even create your own study session. So to Help Overcome and also for future prevention. We have made an android application for students that allows you to connect to users and create and organize study groups easily.

Key-words:- ANDROID STUDIO, FIREBASE, JAVA, GPU- Graphical Processing Unit , Application

### Introduction: -

"StudySeek" as the name suggest it is an android application made to connect users by creating study groups.

Due to problem like finding perfect study material or group there should be proper app to sort this out that's where StudySeek comes in help. It is an Android Studio app design to find the study group and even create your own study session.

We all wanted to create something we need in our everyday student life to make education easier and also by looking at recent times of impact on education due to pandemic.Education is one the major thing affected by covid and lockdown. Students got highly dependent on technology but there is still a lack of proper study material and study groups.

•So by this application it allows user to login and start to create a multiple study group or questions and answers insides each study group. These answers or questions are arranged based on time created or the number of votes by users.

• Study Group will be arrange in highly systematic and user friendly way so that user can easily find the group of his/her interest.

#### **Literature Review**

During recent times of Pandemic we have experience that education is one of the most affected thing.

Student and teachers got highly dependent on online study but still it is very difficult to find perfect study material or study groups so that student can interact with each other and collaborate effectively. Student and teacher interaction have been reduced a lot and students are facing loss of academics so that's why thought of the idea of an application where students can connect and interact with each other and also where teachers can interact with students and answer their doubts.

Study Seek is an application to find study groups and add and connect your buddies and create study groups also where you can mentor and study materials.

Study Seeks lets you create account and login and sign up easily and create and join different study groups according to their course and subject and also appoint mentor as well as ask questions and answer also and as well as find and post study material for your respective course or subject.

#### Methodology

#### Proposed system

- 1. Creating Sign/Login Screen and Using firebase as database
- 2. Create group
- 3. Join Group
- 4. Testing

## Creating Sign/Login Screen and Using firebase as database

• Material Design Sign up/login screen

We have used Java along with xml for creating the sign up and login screen and storing the user data in Firebase in android studio.

😋 MainActivity.java ×					
27	@Override				
28 📬 📮	💡 protected void onCreate(Bundle savedInstanceState) {				
29	<pre>super.onCreate(savedInstanceState);</pre>				
30	<pre>final FirebaseAuth firebaseAuth = FirebaseAuth.getInstance();</pre>				
31	FirebaseUser user = firebaseAuth.getCurrentUser();				
32 🖕	<pre>if(user != null &amp;&amp; user.isEmailVerified()){</pre>				
33	<pre>startActivity(new Intent( packageContext: MainActivity.this, Menu.class));</pre>				
34 🏟					
35	<pre>setContentView(R.layout.activity_main);</pre>				
36	<pre>email = findViewById(R.id.editText);</pre>				
37	<pre>password = findViewById(R.id.editText2);</pre>				
38	<pre>signIn = findViewById(R.id.button4);</pre>				
39	<pre>signUp = findViewById(R.id.button);</pre>				
40	<pre>loginGuest = findViewById(R.id.loginGuest);</pre>				
41	<pre>changePassword = findViewById(R.id.button3);</pre>				
42					
43 🗊 🗎	signUp.setOnClickListener((view) → {				
46	<pre>firebaseAuth.createUserWithEmailAndPassword(email.getText().toString(),</pre>				
47	<pre>password.getText().toString())</pre>				
48 🗐 🕀	.addOnCompleteListener((task) → {				
51	<pre>if(task.isSuccessful()){</pre>				
52	<pre>firebaseAuth.getCurrentUser().sendEmailVerification()</pre>				
53 🔰 🗄	.addOnCompleteListener((task) → {				
56	if(task.isSuccessful()){				
57	Toast. <i>makeText</i> ( context: MainActivity.this, text: "Registered successfully. Please check your e				
58 59	Toast.LENGTH_LONG).show(); email.setText(""); password.setText(""); }else {				
60	password.setText("");				
61 🖯	}else {				
62	Toast.makeText( context: MainActivity.this, task.getException().getMessage(),				
63	Toast.LENGTH LONG).show();				
64					

Figure 1: Code for Main Activity

### Create Group Screen

📀 CreateGroup.java 🗡 💿 FindGroup.java 🗵					
12					
13 📇	public class CreateGroup extends AppCompatActivity {				
14					
15	@Override				
16 📬 🤅	<pre>protected void onCreate(Bundle savedInstanceState) {</pre>				
17	<pre>super.onCreate(savedInstanceState);</pre>				
18	<pre>setContentView(R.layout.activity_create_group);</pre>				
19	<pre>final Spinner Department = findViewById(R.id.faculty);</pre>				
20	<pre>final Spinner Faculty = findViewById(R.id.departament);</pre>				
21 🤅	Department.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {				
22	@Override				
23 🗐 🤅	<pre>public void onItemSelected(AdapterView<?> adapterView, View view, int i, long 1) {</pre>				
24 🤅	if(i==0){				
25	ArrayAdapter <charsequence> adapter = ArrayAdapter.createFromResource( context: CreateGroup.this,</charsequence>				
26	R.array.engineering_departments, android.R.layout.simple_spinner_item);				
27	<pre>adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);</pre>				
28	<u>Faculty</u> .setAdapter(adapter);				
29					
30 É					
31 🤅	if(i==1){				
32	ArrayAdapter <charsequence> adapter = ArrayAdapter.createFromResource( context: CreateGroup.this,</charsequence>				
33	R.array.medicine_departments, android.R.layout.simple_spinner_item);				
34	<pre>adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);</pre>				
35	<u>Faculty</u> .setAdapter(adapter);				
36					
37 🤅					
38 🤅	if(i==2){				
39	ArrayAdapter <charsequence> adapter = ArrayAdapter.createFromResource( context: CreateGroup.this,</charsequence>				
40	R.array.natural_science_departments, android.R.layout.simple_spinner_item);				
41	<pre>adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);</pre>				
42	<u>Faculty</u> .setAdapter(adapter);				
43					
44 🤅					

Figure 2: Code of creating group according to respective subject or stream

# **3.Find Group Screen**

G FindGroup.java ×				
16			@Override	
	<b>0</b> †		<pre>protected void onCreate(Bundle savedInstanceState) {</pre>	
			<pre>super.onCreate(savedInstanceState);</pre>	
			<pre>setContentView(R.layout.activity_find_group);</pre>	
			<pre>Button buttonEngineer = findViewById(R.id.buttonEngineering);</pre>	
			buttonEngineer.setOnClickListener(	
	BÎ			
			<pre>startActivity(new Intent( packageContext: FindGroup.this, SearchEngineer.class));</pre>	
			});	
			Button buttonMedicine = findViewById(R.id.buttonMedicine);	
			buttonMedicine.setOnClickListener(	
	BÎ			
			<pre>startActivity(new Intent( packageContext: FindGroup.this, SearchMedicine.class));</pre>	
			});	
			Button buttonNatural = findViewById(R.id.buttonNatural);	
			buttonNatural.setOnClickListener(	
	Bţ			
			<pre>startActivity(new Intent( packageContext: FindGroup.this, SearchNatural.class));</pre>	
			});	
			<pre>Button buttonBusiness = findViewById(R.id.buttonBusiness);</pre>	
			buttonBusiness.setOnClickListener(	
	BÎ			
			<pre>startActivity(new Intent( packageContext: FindGroup.this, SearchBusiness.class));</pre>	
			});	
			}	
		}		

Figure 3: Code of finding group according to stream

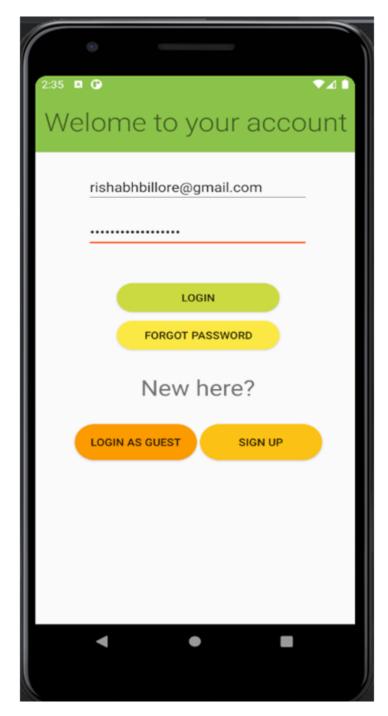
### Testing

Testing is the process of evaluation of a system to detect differences between given input and expected output and also to assess the feature of the system. Testing assesses the quality of the product. It is a process that is done during the development process.

### Strategy Used

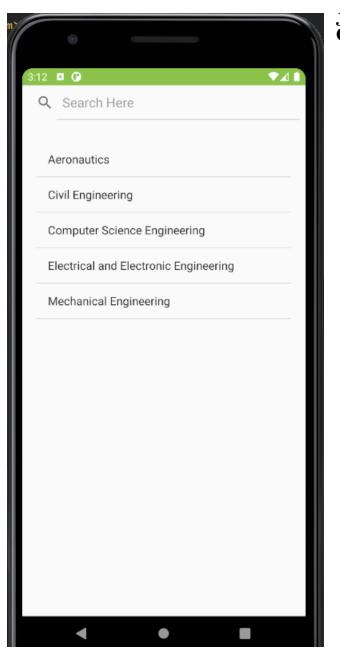
Tests can be conducted based on two approaches – Functionality testing Implementation Test Case Output 1:-

# LOGIN AND SIGN UP PAGE

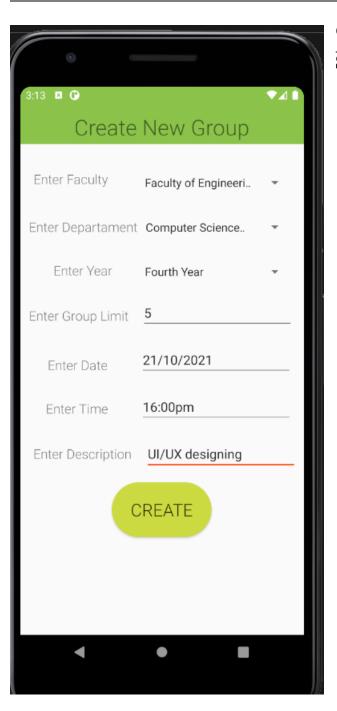


# FINDING AND CREATING STUDY GROUPS





# JOINING EXISTING STUDY GROUPS



# CREATING NEW STUDY GROUP ACCORDING TO STREAM AND SUBJECT

#### Minimum Hardware used

Operating System – windows 7 or higher Processor – Intel i3 or higher IDE used android studio and firebase as the storage

Programming Languages: JAVA Android Studio XML Firebase

Limitations: -There are some limitation like lack of quiz and chatting so that features will be added in upcoming updates like Chat option

Quiz option Challenge of the day option Find mentor option Find study room option Track progress option

#### Activity diagram

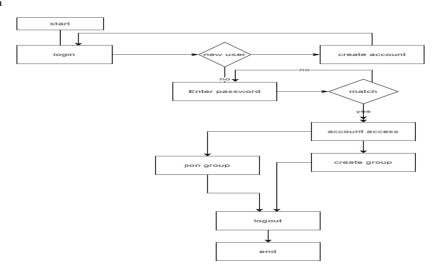


Figure 11: Activity Diagram

### **Result Discussion**

The application allows user to login and start to create a multiple study group or questions and answers insides each study group. These answers or questions are arranged based on time created or the number of votes by users. We used Parse as our solution for the back end of the app so that multiple devices can run and see the updated questions or answers at run time.

Perfect Study Groups for particular field as per the interest.

USER FRIENDLY UI AND ORGANIZED DATATBASE

SESSION MAINTAINANCE

EFFECTIVE INTERACTION

#### **Conclusion: -**

SO this android application will surely help users to connect to study groups and ask their queries and answer other's questions and thus helping in interactive communication

To provide platform for student to connect them and study effectively

- To provide collaborative platform where users can connect with different users with the same interest
- To provide study material in an organized way

To provide user friendly UI for creating and searching Study groups

The main objective is to make student connect with study groups and interact easily

#### Acknowledgement

We thank the almighty Lord for giving me the strength and courage to sailout through the tough and reach on shoresafely.

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#### **References:** -

- [1] Introduction to Android: http://developer.android.com/guide/index.html.
- [2] Android API: http://developer.android.com/reference/packages.html
- [3] Java 17 API: http://docs.oracle.com/javase/6/docs/api/
- [4] Android Fundamentals: http://developer.android.com/guide/components/fundamentals.html
- [5] The Java Tutorials: http://docs.oracle.com/javase/tutorial/
- [6] Android User Interfaces: http://developer.android.com/guide/topics/ui/index.html
- [7] Layout: http://developer.android.com/guide/topics/ui/declaring-layout.html
- [8] Common Tasks: http://developer.android.com/guide/appendix/faq/commontasks.html
- [9] Google Maps: http://code.google.com/android/add-ons/google-apis/maps-overview.html
- [10] Iconography: http://developer.android.com/guide/practices/ui\_guidelines/icon\_design.html
- [11] Sample Source Code: http://developer.android.com/resources/samples/get.html
- [12] Android Training: http://developer.android.com/training/index.html.
- [13] Android Developer's Blog: http://android-developers.blogspot.com/
- [14] Developer FAQ: <u>http://developer.android.com/resources/faq/</u>
- [15] Developer Forums: http://developer.android.com/resources/community-groups.html
- [16] Android Developer's Group: http://groups.google.com/group/android-developers?lnk=
- [17] XDA-Developers Forums: http://forum.xda-developers.com/