

AJAY KUMAR GARG ENGINEERING COLLEGE

27th KM STONE DELHI-HAPUR BYPASS ROAD, P.O. ADHYATMIK NAGAR
GHAZIABAD-201009

AN
INTERNSHIP TRAINING REPORT
ON
LIVE 'COLLEGE ANDROID APP'



Submitted By :-

Gaurav Singh

Year :- 3rd Year

Semester :- 3rd

Branch :- CSE(DS)

Student No. :- 2115402-D

Date :-

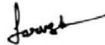
Certificate of Training

Gaurav Singh

from Ajay Kumar Garg Engineering College has successfully completed a six weeks online training on Android App Development from 11th September, 2022 to 25th October, 2022.

The training consisted of Introduction to Android, World of Kotlin, Android Kick-Off, Higher Order Functionalities and The Final Project modules.

We wish Gaurav Singh all the best for the future



Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: 2022-11-27

Certificate no.: 1BE4B79D-597D-0C9E-A2E7-7264454853AE

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

AJAY KUMAR GARG ENGINEERING COLLEGE

27th KM STONE DELHI-HAPUR BYPASS ROAD, P.O. ADHYATMIK NAGARGHAZIABAD-201009

INTERNSHIP CERTIFICATE

This is to certify that _____ student of AJAY KUMAR GARG
ENGINEERING COLLEGE B. Tech __ year _____ branch, has undergone
Internship Training in (Topic) _____ from _____ to _____.

(Name of faculty)

Faculty Internship Assessment Lab

Dr. Sunita Yadav

HoD, CSE

ABSTRACT

Android is an operating system based on the Linux kernel, and designed primarily for touch screen mobile devices such as smart phones and tablet computer. Android holds almost 50% of the total mobile application market, which is worth billions and with the latest advances, it is only going to increase.

Android App Builder helps you in creating the most sophisticated Android applications, that you can create yourself without any previous knowledge of coding or mobile app development experience. Our Android App Builder provides you with the best, error free and pleasant app building experience. Users can convert any web content into an Android App using AppsBuilder. The main aim of this project is to reach users new dimensions and to provide them with applications that they can change/modify themselves without any problem. Users can use this tool to develop applications for your business, employees, or general public.

PREFACE

“Necessity is Mother of All Inventions”

ACKNOWLEDGEMENT

- ❖ I am thankful to our **director “R.K. Agrawal”**, for permitting and encouraging me in doing this project.
- ❖ I express my sincere thanks to our Academic Dean “**Mr. SL Kapoor**”, for encouragement and suggestions to the successful completion of my project.
- ❖ My sincere thanks to “**Mr. Sunita Yadav**” **Professor, Head of Department in CSE** whose motivation and constant encouragement has led to pursue a project in the field of software development.
- ❖ I am very much obliged and thankful to my Coordinator **Ms. Rekha Baghel** to providing this opportunity.
- ❖ My Parents have put myself ahead of themselves. Because of their hardwork and dedication. My heartfelt thanks to them for giving me all I ever needed to be successful student and individual.

Finally, I express my thanks to all my other professors, classmates, friends and my family members who helped me for the completion of my project and without support and patient this would never have been possible

INTRODUCTION TO ORGANIZATION

- ❖ Internshala is India's no. 1 internship and training platform with 40000+ paid internship in Engineering, MBA, media, law, arts, and other streams.
- ❖ The platform, which was founded in 2010, started out as a WordPress blog that aggregated internships across India and articles on education, technology and skill gap. Internshala launched its online trainings in 2014. As of 2018, the platform had 3.5 million students and 80,000 companies.

Purpose:

- ❖ The main purpose is to take trainee to their "DREAM JOB". The objective of Training is to develop useful knowledge, techniques, and skills. They prepare the students to carry out the tasks in well-defined job circumstances.
- ❖ Training is the activity that enhances your performance in the present or upcoming job. In our company, you may learn new skills, boost your learning, and get a lot of confidence.

INTERNSHIP TRAINING WORK

Introduction: College Android App

OBJECTIVE: To create an android app by which users/students can get the updated information about college through this live app. The main purpose is to make one platform for all like (OfficialWhatsAppGroup/ GCR/edumarshal)

METHODOLOGY:



Tools and Technology used:-

- i.) Android Studio for App Development
- ii.) Firebase as network storage.


Languages for programming:-

- i.) Java
- ii.) XML for UI development

Modules in Project:-

1. Login Manager
2. News Feed Management
3. Gallery Management
4. Notes Management
5. Faculties Management
6. Student Portal* (edumarshal)

SNAPSHOTS



AKGEC Administrator

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IMPORTANT NOTICE

Regarding Examination Schedule for ODD Semester Theory Examination, Session 2021-22

All the students of the Institute are hereby informed that as per decision taken at the institute level, the Examination Slots for the ODD SEMESTER THEORY EXAMINATION (Regular / Carry Over), 2021-22 are as follows:

SNo.	Programme	Semester	Slots for Odd Semester Theory Examination, 2021-22 (Regular and Carry Over)	Mode of Examination
A.	B.Tech. (All Branches)	7 th	March 02-11, 2022	OFFLINE, Subjective Three Hours
	MCA	3 rd	Dates of Exam: March 02, 04, 07, 09, 11	
B.	B.Tech. (All Branches)	5 th	Feb 28-March 12, 2022	OFFLINE, Subjective Three Hours
	MCA	5 th	Dates of Exam: Feb 28, March 03, 05, 08, 10, 12	
C.	MBA	3 rd	Feb 28-March 12, 2022	OFFLINE, Subjective Three Hours
D.	Pass-out Batch Carry (All Programmes)		Feb 28-March 12, 2022	OFFLINE, Subjective Three Hours
			Dates of Exam: Feb 28, March 02, 03, 04, 05, 07, 08, 09, 10, 11, 12	
E.	B.Tech./M.Tech MBA/MCA Pre-Ph.D.	1 st	April 02-15, 2022	OFFLINE, Subjective Three Hours
F.	B.Tech.	3 rd		

The detailed examination schedule shall be notified shortly.

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Convocation

Alumni Meet

Freshers Party

Farewell Party

Independence Day

Republic Day

Holi Celebration

Deepawali Celebration

Vishwakarma Puja

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xyz@gmail.com

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Civil Engineering


Washu
Civil Lecturer
civil

UPDATE INFO



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Electronics and Communication Engineering

Mechanical Engineering

Information Technology

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fourth

Ajay Kumar Garg Engineering College

Ajay Kumar Garg Engineering College (AKGEC) is an engineering college located in Ghaziabad, Uttar Pradesh, India. The college was established in 1998. It is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. It was designated as one of the 9 research centers in Ghaziabad-Noida area. Students of the institute have ranked in the

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Date : 25--01--22 Time : 04:58 pm

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Programming Wisdom
@CodeWisdom

"Any fool can write code that a computer can understand. Good programmers write code that humans can understand."
— Martin Fowler

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Programmers who write regex:



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Holiday's List

AJAY KUMAR GARG INSTITUTE OF MANAGEMENT
27th Km, Sonet, Delhi-Hapur By Pass Road, Auliyatpur Nagra, Post Box No. 118, Ghaziabad-201009

LIST OF HOLIDAYS DURING THE YEAR 2022

S. No.	Name of Festival	Date	Day
1	Republic Day	26 th January 2022	Wednesday
2	Maha Shivratri	1 st March 2022	Tuesday
3	Holi/Dahan	13 th March 2022	Thursday
4	Holi	14 th March 2022	Friday
5	Ram Navmi	10 th April 2022	Sunday
6	Dr. Bhimrao Ambedkar's Birthday / Mahaveer Jayanti	14 th April 2022	Thursday
7	Id-3/1-Fitar / Prashuram Jayanti	3 rd May 2022	Tuesday
8	Id-3/1-Julia (Bakreed)	10 th July 2022	Sunday
9	Moharrum	9 th August 2022	Tuesday

Applied Sciences and Humanities

Testing
Freedom Fighter
xyz@gmail.com



xyz
abc
xyz@gmail.com



Civil Engineering

Washu
Civil Lecturer
civil



xyz
xyz
xyz@gmail.com



Home



News Feed



Faculty



 Developer

Excess



Code: Student App

MainActivity.java

```
package akgecians.students;

import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.GravityCompat;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.navigation.NavController;
import androidx.navigation.Navigation;
import androidx.navigation.ui.NavigationUI;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.Toast;
import com.google.android.material.bottomnavigation.BottomNavigationView;
import com.google.android.material.navigation.NavigationView;
import com.google.firebase.auth.FirebaseAuth;
import java.util.Objects;
import akgecians.students.authentication.LoginActivity;
import akgecians.students.authentication.RegisterActivity;
import akgecians.students.ebook.EbookActivity;

public class MainActivity extends AppCompatActivity implements
NavigationView.OnNavigationItemSelectedListener {

    private DrawerLayout drawerLayout;
    private ActionBarDrawerToggle toggle;

    private FirebaseAuth auth;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);  
setContentView(R.layout.activity_main);  
auth = FirebaseAuth.getInstance();
```

```
BottomNavigationView bottomNavigationView = findViewById(R.id.bottomNavigationView);  
NavController navController = Navigation.findNavController(this, R.id.frame_layout);  
NavigationUI.setupWithNavController(bottomNavigationView, navController);
```

```
drawerLayout = findViewById(R.id.drawerLayout);  
NavigationView navigationView = findViewById(R.id.navigation_view);
```

```
toggle = new ActionBarDrawerToggle(this, drawerLayout, R.string.start, R.string.close);
```

```
drawerLayout.addDrawerListener(toggle);  
toggle.syncState();
```

```
Objects.requireNonNull(getSupportActionBar()).setDisplayHomeAsUpEnabled(true);
```

```
navigationView.setNavigationItemSelectedListener(this);
```

```
}
```

```
@Override
```

```
public boolean onCreateOptionsMenu(Menu menu) {  
    MenuInflater menuInflater = getMenuInflater();  
    menuInflater.inflate(R.menu.option_menu, menu);  
    return true;  
}
```

```
@Override
```

```
public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
    if (toggle.onOptionsItemSelected(item)) {  
        return true;  
    }  
    if (item.getItemId() == R.id.logout) {  
        auth.signOut();  
        Toast.makeText(this, "Logout", Toast.LENGTH_SHORT).show();  
        // openLogin();  
    }  
}
```

```

    }
    return true;
}

private void openLogin() {
    startActivity(new Intent(MainActivity.this, LoginActivity.class));
    finish();
}

@Override
protected void onStart() {
    super.onStart();
    if (auth.getCurrentUser() == null){
        openLogin();
    }
}

@SuppressLint("NonConstantResourceId")
@Override
public boolean onNavigationItemSelected(@NonNull MenuItem item) {

    switch (item.getItemId()){
        case R.id.studentPortal:
            startActivity(new Intent(this, RegisterActivity.class));
            break;

        case R.id.navigation_ebook:
            startActivity(new Intent(this, EbookActivity.class));
            break;

        case R.id.navigation_map:
            Toast.makeText(this,"Map", Toast.LENGTH_SHORT).show();
            break;

        case R.id.navigation_website:
            Toast.makeText(this,"Website", Toast.LENGTH_SHORT).show();
            break;

        case R.id.navigation_rate:

```

```

        Toast.makeText(this,"Rating", Toast.LENGTH_SHORT).show();
        break;

        case R.id.navigation_share:
            Toast.makeText(this,"Share", Toast.LENGTH_SHORT).show();
            break;

        case R.id.navigation_developer:
            Toast.makeText(this,"Developer", Toast.LENGTH_SHORT).show();
            break;
    }
    return true;
}

@SuppressLint("SuspiciousIndentation")
@Override
public void onBackPressed() {

    if (drawerLayout.isDrawerOpen(GravityCompat.START)){
        drawerLayout.closeDrawer(GravityCompat.START);
    }else
        super.onBackPressed();
    }
}

```

HomeFragment.java

```

package akgecians.students.ui.home;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import com.smarteist.autoimageslider.DefaultSliderView;
import com.smarteist.autoimageslider.IndicatorAnimations;
import com.smarteist.autoimageslider.SliderAnimations;

```

```

import com.smarteist.autoimageslider.SliderLayout;
import akgecians.students.R;

public class HomeFragment extends Fragment {

    private SliderLayout sliderLayout;
    private ImageView map;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        View view = inflater.inflate(R.layout.fragment_home, container, false);

        sliderLayout = view.findViewById(R.id.slider);
        sliderLayout.setIndicatorAnimation(IndicatorAnimations.FILL);

        sliderLayout.setSliderTransformAnimation(SliderAnimations.SIMPLETRANSFORMATION);
        sliderLayout.setScrollTimeInSec(1);
        setSliderViews();

        map = view.findViewById(R.id.map);
        map.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                openMap();
            }
        });
        return view;
    }

    private void openMap() {
        Uri uri = Uri.parse("geo:0, 0?q=Ajay Kumar Garg Engineering College Ghaziabad");
        Intent intent = new Intent(Intent.ACTION_VIEW, uri);
        intent.setPackage("com.google.android.apps.map");
        startActivity(intent);
    }
}

```

```

private void setSliderViews() {
    for (int i=0; i<5; i++){
        DefaultSliderView sliderView = new DefaultSliderView(getContext());
        switch (i){
            case 0:
                sliderView.setImageUrl("");
                sliderView.setDescription("Top College");
                break;
            case 1:
                sliderView.setImageUrl("");
                sliderView.setDescription("Second");
                break;
            case 2:
                sliderView.setImageUrl("");
                sliderView.setDescription("third");
                break;
            case 3:
                sliderView.setImageUrl("");
                sliderView.setDescription("fourth");
                break;
            case 4:
                sliderView.setImageUrl("");
                sliderView.setDescription("fifth");
                break;
        }
        sliderView.setImageScaleType(ImageView.ScaleType.CENTER_CROP);
        sliderLayout.addSliderView(sliderView);
    }
}

```

NoticeFragment.java

```

package akgecians.students.ui.notice;
import android.os.Bundle;
import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.view.LayoutInflater;

```



```
import android.view.View;
import android.view.ViewGroup;
import android.widget.LinearLayout;
import android.widget.Toast;
import com.facebook.shimmer.ShimmerFrameLayout;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
import java.util.ArrayList;
import akgecians.students.R;
```

```
public class NoticeFragment extends Fragment {
```

```
    private RecyclerView deleteNoticeRecycler;
    private ArrayList<NoticeData> list;
    private NoticeAdapter adapter;
    private DatabaseReference reference;
```

```
    ShimmerFrameLayout shimmerFrameLayout;
    LinearLayout shimmerNotice;
```

```
@Override
```

```
public View onCreateView(LayoutInflater inflater, ViewGroup container,
                        Bundle savedInstanceState) {
```

```
    // Inflate the layout for this fragment
```

```
    View view = inflater.inflate(R.layout.fragment_notice, container, false);
```

```
    deleteNoticeRecycler = view.findViewById(R.id.deleteNoticeRecycler);
```

```
    reference = FirebaseDatabase.getInstance("https://akgec-ghaziabad-2115402d-default-
rtdb.asia-southeast1.firebaseio.com").getReference().child("News Feed");
```

```
    deleteNoticeRecycler.setLayoutManager(new LinearLayoutManager(getContext()));
```

```
    deleteNoticeRecycler.setHasFixedSize(true);
```

```
    shimmerFrameLayout = view.findViewById(R.id.shimmer_view_container);
```

```
    shimmerNotice = view.findViewById(R.id.shimmerNotice);
```

```
    getNotice();
```

```
    return view;
```

```
}
```

```
private void getNotice() {
```

```
    reference.addValueEventListener(new ValueEventListener() {
```

```
        @Override
```

```
        public void onDataChange(@NonNull DataSnapshot snapshot) {
```

```
            list = new ArrayList<>();
```

```
            for (DataSnapshot dataSnapshot : snapshot.getChildren()){
```

```
                NoticeData data = dataSnapshot.getValue(NoticeData.class);
```

```
                list.add(0,data);
```

```
            }
```

```
            adapter = new NoticeAdapter(getContext(), list);
```

```
            adapter.notifyDataSetChanged();
```

```
            deleteNoticeRecycler.setAdapter(adapter);
```

```
            Toast.makeText(getContext(), "News Feed Found Successfully",
```

```
            Toast.LENGTH_SHORT).show();
```

```
            shimmerFrameLayout.stopShimmer();
```

```
            shimmerNotice.setVisibility(View.GONE);
```

```
        }
```

```
    @Override
```

```
    public void onCancelled(@NonNull DatabaseError error) {
```

```
        Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
```

```
    }
```

```
});
```

```
}
```

```
@Override
```

```
public void onPause() {
```

```
    shimmerFrameLayout.stopShimmer();
```

```
    super.onPause();
```

```
}
```

```
@Override
```

```
public void onResume() {
```

```
    shimmerFrameLayout.stopShimmer();
```

```
    super.onResume();
```

```
}  
}
```

NoticeAdapter.java

```
package akgecians.students.ui.notice;  
import android.content.Context;  
import android.content.Intent;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.ImageView;  
import android.widget.TextView;  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
import com.bumptech.glide.Glide;  
import com.squareup.picasso.Picasso;  
import java.util.ArrayList;  
import akgecians.students.FullImageView;  
import akgecians.students.R;  
  
public class NoticeAdapter extends RecyclerView.Adapter<NoticeAdapter.NoticeViewHolder> {  
  
    private Context context;  
    private ArrayList<NoticeData> list;  
    public NoticeAdapter(Context context, ArrayList<NoticeData> list) {  
        this.context = context;  
        this.list = list;  
    }  
  
    @NonNull  
    @Override  
    public NoticeViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {  
        View view = LayoutInflater.from(context).inflate(R.layout.newsfeed_item_layout, parent,  
false);  
        return new NoticeViewHolder(view);  
    }  
  
    @Override  
    public void onBindViewHolder(@NonNull NoticeViewHolder holder, int position) {
```

```

NoticeData currentItem = list.get(position);
holder.deleteNoticeTitle.setText(currentItem.getTitle());
holder.date.setText(currentItem.getDate());
holder.time.setText(currentItem.getTime());
try {
    if (currentItem.getImage() != null)
        Picasso.get().load(currentItem.getImage()).into(holder.deleteNoticeImage);
} catch (Exception e) {
    e.printStackTrace();
}

```

```

holder.deleteNoticeImage.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(context, FullImageView.class);
        intent.putExtra("image", currentItem.getImage());
        context.startActivity(intent);
    }
});
}

```

```

@Override
public int getItemCount() {
    return list.size();
}

```

```

public class NoticeViewAdapter extends RecyclerView.ViewHolder {

```

```

    private TextView deleteNoticeTitle, date, time;
    private ImageView deleteNoticeImage;
    public NoticeViewAdapter(@NonNull View itemView) {
        super(itemView);
        deleteNoticeTitle = itemView.findViewById(R.id.deleteNoticeTitle);
        deleteNoticeImage = itemView.findViewById(R.id.deleteNoticeImage);
        date = itemView.findViewById(R.id.date);
        time = itemView.findViewById(R.id.time);
    }
}

```

```

}

```

FacultyFragment.java

```
package akgecians.students.ui.faculty;

import android.content.Intent;
import android.os.Bundle;
import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.LinearLayout;
import android.widget.Toast;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
import java.util.ArrayList;
import java.util.List;
import akgecians.students.R;

public class FacultyFragment extends Fragment {

    private RecyclerView appliedDepartment, civilDepartment, csDepartment, eeeDepartment,
    eceDepartment, meDepartment, itDepartment;

    private LinearLayout appliedNoData, civilNoData, csNoData, eeeNoData, eceNoData, meNoData,
    itNoData;

    private List<TeacherData> list1, list2, list3, list4, list5, list6, list7;
    private TeacherAdapter adapter;
    private DatabaseReference reference, dbRef;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        View view = inflater.inflate(R.layout.fragment_faculty, container, false);
        appliedDepartment = view.findViewById(R.id.appliedDepartment);
        civilDepartment = view.findViewById(R.id.civilDepartment);
        csDepartment = view.findViewById(R.id.csDepartment);
```

```

        eeeDepartment = view.findViewById(R.id.eeeDepartment);
        eceDepartment = view.findViewById(R.id.eceDepartment);
        meDepartment = view.findViewById(R.id.meDepartment);
        itDepartment = view.findViewById(R.id.itDepartment);

        appliedNoData = view.findViewById(R.id.appliedNoData);
        civilNoData = view.findViewById(R.id.civilNoData);
        csNoData = view.findViewById(R.id.csNoData);
        eeeNoData = view.findViewById(R.id.eeeNoData);
        eceNoData = view.findViewById(R.id.eceNoData);
        meNoData = view.findViewById(R.id.meNoData);
        itNoData = view.findViewById(R.id.itNoData);

        reference = FirebaseDatabase.getInstance("https://akgec-ghaziabad-2115402d-default-
rtdb.asia-southeast1.firebaseio.com").getReference().child("Faculties");

        appliedDepartment();
        civilDepartment();
        csDepartment();
        eeeDepartment();
        eceDepartment();
        meDepartment();
        itDepartment();
        return view;
    }

    private void appliedDepartment() {
        dbRef = reference.child("Applied Sciences & Humanities");
        dbRef.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot snapshot) {
                list1 = new ArrayList<>();
                if (!snapshot.exists()){
                    appliedNoData.setVisibility(View.VISIBLE);
                    appliedDepartment.setVisibility(View.GONE);
                } else {
                    appliedNoData.setVisibility(View.GONE);
                    appliedDepartment.setVisibility(View.VISIBLE);
                    for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                        TeacherData data = dataSnapshot.getValue(TeacherData.class);

```

```

        list1.add(data);
    }
    appliedDepartment.setHasFixedSize(true);
    appliedDepartment.setLayoutManager(new LinearLayoutManager(getContext()));
    adapter = new TeacherAdapter(list1, getContext());
    appliedDepartment.setAdapter(adapter);
}
}

@Override
public void onCancelled(@NonNull DatabaseError error) {
    Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
}
});
}

private void civilDepartment() {
    dbRef = reference.child("Civil Engineering");
    dbRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {
            list2 = new ArrayList<>();
            if (!snapshot.exists()){
                civilNoData.setVisibility(View.VISIBLE);
                civilDepartment.setVisibility(View.GONE);
            }else {
                civilNoData.setVisibility(View.GONE);
                civilDepartment.setVisibility(View.VISIBLE);
                for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                    TeacherData data = dataSnapshot.getValue(TeacherData.class);
                    list2.add(data);
                }
                civilDepartment.setHasFixedSize(true);
                civilDepartment.setLayoutManager(new LinearLayoutManager(getContext()));
                adapter = new TeacherAdapter(list2, getContext());
                civilDepartment.setAdapter(adapter);
            }
        }
    }
}
}

```

```

@Override
public void onCancelled(@NonNull DatabaseError error) {
    Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
}
});
}

private void csDepartment() {
    dbRef = reference.child("Computer Science and Engineering");
    dbRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {
            list3 = new ArrayList<>();
            if (!snapshot.exists()){
                csNoData.setVisibility(View.VISIBLE);
                csDepartment.setVisibility(View.GONE);
            }else {
                csNoData.setVisibility(View.GONE);
                csDepartment.setVisibility(View.VISIBLE);
                for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                    TeacherData data = dataSnapshot.getValue(TeacherData.class);
                    list3.add(data);
                }
                csDepartment.setHasFixedSize(true);
                csDepartment.setLayoutManager(new LinearLayoutManager(getContext()));
                adapter = new TeacherAdapter(list3, getContext());
                csDepartment.setAdapter(adapter);
            }
        }
    });
}

@Override
public void onCancelled(@NonNull DatabaseError error) {
    Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
}
});
}

private void eeeDepartment() {
    dbRef = reference.child("Electrical and Electronics Engineering");
    dbRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {

```



```

list4 = new ArrayList<>();
if (!snapshot.exists()){
    eeeNoData.setVisibility(View.VISIBLE);
    eeeDepartment.setVisibility(View.GONE);
}else {
    eeeNoData.setVisibility(View.GONE);
    eeeDepartment.setVisibility(View.VISIBLE);
    for (DataSnapshot dataSnapshot: snapshot.getChildren()){
        TeacherData data = dataSnapshot.getValue(TeacherData.class);
        list4.add(data);
    }
    eeeDepartment.setHasFixedSize(true);
    eeeDepartment.setLayoutManager(new LinearLayoutManager(getContext()));
    adapter = new TeacherAdapter(list4, getContext());
    eeeDepartment.setAdapter(adapter);
}
}

@Override
public void onCancelled(@NonNull DatabaseError error) {
    Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
}

});
}

private void eceDepartment() {
    dbRef = reference.child("Electronics and Communication Engineering");
    dbRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {
            list5 = new ArrayList<>();
            if (!snapshot.exists()){
                eceNoData.setVisibility(View.VISIBLE);
                eceDepartment.setVisibility(View.GONE);
            }else {
                eceNoData.setVisibility(View.GONE);
                eceDepartment.setVisibility(View.VISIBLE);
                for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                    TeacherData data = dataSnapshot.getValue(TeacherData.class);
                    list5.add(data);
                }
            }
        }
    });
}

```

```

        eceDepartment.setHasFixedSize(true);
        eceDepartment.setLayoutManager(new LinearLayoutManager(getContext()));
        adapter = new TeacherAdapter(list5, getContext());
        eceDepartment.setAdapter(adapter);
    }
}
@Override
public void onCancelled(@NonNull DatabaseError error) {
    Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
}
});
}

```

```

private void meDepartment() {
    dbRef = reference.child("Mechanical Engineering");
    dbRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {
            list6 = new ArrayList<>();
            if (!snapshot.exists()){
                meNoData.setVisibility(View.VISIBLE);
                meDepartment.setVisibility(View.GONE);
            } else {

                meNoData.setVisibility(View.GONE);
                meDepartment.setVisibility(View.VISIBLE);
                for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                    TeacherData data = dataSnapshot.getValue(TeacherData.class);
                    list6.add(data);
                }
                meDepartment.setHasFixedSize(true);
                meDepartment.setLayoutManager(new LinearLayoutManager(getContext()));
                adapter = new TeacherAdapter(list6, getContext());
                meDepartment.setAdapter(adapter);
            }
        }
    });
    @Override
    public void onCancelled(@NonNull DatabaseError error) {
        Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
    }
}

```

```

    }
    });
}
private void itDepartment() {
    dbRef = reference.child("Information Technology");
    dbRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {
            list7 = new ArrayList<>();
            if (!snapshot.exists()){
                itNoData.setVisibility(View.VISIBLE);
                itDepartment.setVisibility(View.GONE);
            }else {
                itNoData.setVisibility(View.GONE);
                itDepartment.setVisibility(View.VISIBLE);
                for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                    TeacherData data = dataSnapshot.getValue(TeacherData.class);
                    list7.add(data);
                }
                itDepartment.setHasFixedSize(true);
                itDepartment.setLayoutManager(new LinearLayoutManager(getContext()));
                adapter = new TeacherAdapter(list7, getContext());
                itDepartment.setAdapter(adapter);
            }
        }
    });
}
@Override
public void onCancelled(@NonNull DatabaseError error) {
    Toast.makeText(getContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
}
});
}
}

```

TeacherAdapter.java

```

package akgecians.students.ui.faculty;
import android.content.Context;
import android.content.Intent;
import android.view.LayoutInflater;

```

```
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
import java.util.List;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;
import com.squareup.picasso.Picasso;
import akgecians.students.R;
```

```
public class TeacherAdapter extends
RecyclerView.Adapter<TeacherAdapter.TeacherViewHolder> {
    private List<TeacherData> list;
    private Context context;
    //here we create constructor below of variables declared just above
    public TeacherAdapter(List<TeacherData> list, Context context) {
        this.list = list;
        this.context = context;
    }
    @NonNull
    @Override
    public TeacherViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType) {
        View view = LayoutInflater.from(context).inflate(R.layout.faculty_item_layout, parent, false);
        return new TeacherViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull TeacherViewHolder holder, int position) {
        TeacherData item = list.get(position);
        holder.name.setText(item.getName());
        holder.post.setText(item.getPost());
        holder.email.setText(item.getEmail());
        try {
            Picasso.get().load(item.getImage()).placeholder(R.drawable.akgec).into(holder.imageView);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```

    }

    @Override
    public int getItemCount() {
        return list.size();
    }

    public class TeacherViewAdapter extends RecyclerView.ViewHolder {
        private TextView name, post, email;
        private ImageView imageView;
        public TeacherViewAdapter(@NonNull View itemView) {
            super(itemView);
            name = itemView.findViewById(R.id.teacherName);
            post = itemView.findViewById(R.id.teacherPost);
            email = itemView.findViewById(R.id.teacherEmail);
            imageView = itemView.findViewById(R.id.teacherImage);

        }
    }
}

```

GalleryFragment.java

```

package akgecians.students.ui.gallery;

import android.os.Bundle;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.GridLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Toast;

import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;

```

```

import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;

import java.util.ArrayList;
import java.util.List;

import akgecians.students.R;

public class GalleryFragment extends Fragment {

    private RecyclerView convocationRecycler, alumniRecycler, freshersRecycler,
farewellRecycler, independenceRecycler, republicRecycler, holiRecycler, vishwakarmaRecycler;
    private GalleryAdapter adapter;

    private DatabaseReference reference;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        View view = inflater.inflate(R.layout.fragment_gallery, container, false);

        convocationRecycler = view.findViewById(R.id.convocationRecycler);
        alumniRecycler = view.findViewById(R.id.alumniRecycler);
        freshersRecycler = view.findViewById(R.id.freshersRecycler);
        farewellRecycler = view.findViewById(R.id.farewellRecycler);
        independenceRecycler = view.findViewById(R.id.independenceRecycler);
        republicRecycler = view.findViewById(R.id.republicRecycler);
        holiRecycler = view.findViewById(R.id.holiRecycler);
        vishwakarmaRecycler = view.findViewById(R.id.vishwakarmaRecycler);

        reference = FirebaseDatabase.getInstance("https://akgec-ghaziabad-2115402d-default-
rtdb.asia-southeast1.firebaseio.com").getReference().child("Gallery");

        getconvocationRecycler();
        getalumniRecycler();

```

```

        getfreshersRecycler();
        getfarewellRecycler();
        getindependenceRecycler();
        getrepublicRecycler();
        getholiRecycler();
        getvishwakarmaRecycler();

        return view;
    }

    private void getconvocationRecycler() {
        /*
        reference.child("Convocation").addValueEventListener(new ValueEventListener() {

            List<String> imageList = new ArrayList<>();
            @Override
            public void onDataChange(@NonNull DataSnapshot snapshot) {

                for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                    String data = (String) snapshot.getValue();
                    imageList.add(data);
                }
                adapter = new GalleryAdapter(getContext(), imageList);
                convocationRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
                convocationRecycler.setAdapter(adapter);
            }

            @Override
            public void onCancelled(@NonNull DatabaseError error) {

            }

        });
        */
    }

    private void getalumniRecycler() {

```

```

/*      reference.child("Alumni Meet").addValueEventListener(new ValueEventListener() {

List<String> imageList = new ArrayList<>();
@Override
public void onDataChange(@NonNull DataSnapshot snapshot) {

    for (DataSnapshot dataSnapshot: snapshot.getChildren()){
        String data = (String) snapshot.getValue();
        imageList.add(data);
    }
    adapter = new GalleryAdapter(getContext(), imageList);
    alumniRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
    alumniRecycler.setAdapter(adapter);
}

@Override
public void onCancelled(@NonNull DatabaseError error) {

}

});
*/
}

```

```

private void getfreshersRecycler() {
/*      reference.child("Freshers Party").addValueEventListener(new ValueEventListener() {

List<String> imageList = new ArrayList<>();
@Override
public void onDataChange(@NonNull DataSnapshot snapshot) {

    for (DataSnapshot dataSnapshot: snapshot.getChildren()){
        String data = (String) snapshot.getValue();
        imageList.add(data);
    }
    adapter = new GalleryAdapter(getContext(), imageList);
    freshersRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
    freshersRecycler.setAdapter(adapter);
}

```



```

        @Override
        public void onCancelled(@NonNull DatabaseError error) {

        }

    });
}

/*

private void getfarewellRecycler() {
/*    reference.child("Farewell Party").addValueEventListener(new ValueEventListener() {

        List<String> imageList = new ArrayList<>();

        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {

            for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                String data = (String) snapshot.getValue();
                imageList.add(data);
            }

            adapter = new GalleryAdapter(getContext(), imageList);
            farewellRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
            farewellRecycler.setAdapter(adapter);
        }

        @Override
        public void onCancelled(@NonNull DatabaseError error) {

        }

    });
}

/*

private void getindependenceRecycler() {
/*    reference.child("Independence Day").addValueEventListener(new ValueEventListener() {

        List<String> imageList = new ArrayList<>();

        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {

            for (DataSnapshot dataSnapshot: snapshot.getChildren()){

```

```

        String data = (String) snapshot.getValue();
        imageUrl.add(data);
    }
    adapter = new GalleryAdapter(getContext(), imageUrl);
    independenceRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
    independenceRecycler.setAdapter(adapter);
}

@Override
public void onCancelled(@NonNull DatabaseError error) {

}

});
*/
}

private void getrepublicRecycler() {
/*    reference.child("Republic Day").addValueEventListener(new ValueEventListener() {

        List<String> imageUrl = new ArrayList<>();

        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {

            for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                String data = (String) snapshot.getValue();
                imageUrl.add(data);
            }
            adapter = new GalleryAdapter(getContext(), imageUrl);
            republicRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
            republicRecycler.setAdapter(adapter);
        }

        @Override
        public void onCancelled(@NonNull DatabaseError error) {

        }

    });
*/
}

```

```

private void getholiRecycler() {
/*
    reference.child("Holi Celebration").addValueEventListener(new ValueEventListener() {

        List<String> imageList = new ArrayList<>();
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {

            for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                String data = (String) snapshot.getValue();
                imageList.add(data);
            }
            adapter = new GalleryAdapter(getContext(), imageList);
            holiRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
            holiRecycler.setAdapter(adapter);
        }

        @Override
        public void onCancelled(@NonNull DatabaseError error) {

        }
    });
*/
}

private void getvishwakarmaRecycler() {
/*
    reference.child("Vishwakarma Puja").addValueEventListener(new ValueEventListener() {

        List<String> imageList = new ArrayList<>();
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {
            for (DataSnapshot dataSnapshot: snapshot.getChildren()){
                String data = (String) snapshot.getValue();
                imageList.add(data);
            }
            adapter = new GalleryAdapter(getContext(), imageList);
            vishwakarmaRecycler.setLayoutManager(new GridLayoutManager(getContext(), 3));
            vishwakarmaRecycler.setAdapter(adapter);
        }
    });
*/
}

```

```

        @Override
        public void onCancelled(@NonNull DatabaseError error) {
        }
    });
}
*/
}
}

```

AboutFragment.java

```

package akgecians.students.ui.about;

import android.os.Bundle;

import androidx.fragment.app.Fragment;
import androidx.viewpager.widget.ViewPager;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.LinearLayout;

import com.bumptech.glide.Glide;

import java.util.ArrayList;
import java.util.List;

import akgecians.students.R;

public class AboutFragment extends Fragment {

    private ViewPager viewPager;
    private BranchAdapter adapter;
    private List<BranchModel> list;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
    }
}

```

```
View view = inflater.inflate(R.layout.fragment_about, container, false);
```

```
list = new ArrayList<>();
```

```
list.add(new BranchModel(R.drawable.ic_civil,"Civil Engineering", "Civil Engineering started in  
xyz year. At present intake sheet in I-year is XYZ students, and in lateral entries XYZ"));
```

```
list.add(new BranchModel(R.drawable.ic_computer,"Computer Science & Engineering",  
"Computer Science & Engineering started in xyz year. At present intake sheet in I-year is XYZ  
students, and in lateral entries XYZ"));
```

```
list.add(new BranchModel(R.drawable.ic_electrical,"Electrical and Electronics Engineering",  
"Electrical & Electronics Engineering started in xyz year. At present intake sheet in I-year is XYZ  
students, and in lateral entries XYZ"));
```

```
list.add(new BranchModel(R.drawable.ic_machanical,"Machanical Engineering", "Machanical  
Engineering started in xyz year. At present intake sheet in I-year is XYZ students, and in lateral  
entries XYZ"));
```

```
list.add(new BranchModel(R.drawable.ic_electrical,"Electronics and Communication  
Engineering", "Electronics and Communication Engineering started in xyz year. At present intake  
sheet in I-year is XYZ students, and in lateral entries XYZ"));
```

```
list.add(new BranchModel(R.drawable.ic_computer,"Information Technology", "Information  
Technology started in xyz year. At present intake sheet in I-year is XYZ students, and in lateral  
entries XYZ"));
```

```
adapter = new BranchAdapter(getContext(),list);
```

```
viewPager = view.findViewById(R.id.viewPager);
```

```
viewPager.setAdapter(adapter);
```

```
//    ImageView imageView = view.findViewById(R.id. URL );
```

```
//    Glide.with(getContext()).load("Fire Base URL").into(imageView);
```

```
return view;
```

```
}
```

```
}
```

BranchModel.java

```
package akgecians.students.ui.about;
```

```
import android.content.Context;
```

```
import android.view.LayoutInflater;
```

```
import android.view.View;
```

```
import android.view.ViewGroup;
```

```
import android.widget.ImageView;
```

```
import android.widget.TextView;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.viewpager.widget.PagerAdapter;
```

```
import java.util.List;
```

```
import akgecians.students.R;
```

```
public class BranchAdapter extends PagerAdapter {
```

```
    private Context context;
```

```
    private List<BranchModel> list;
```

```
    public BranchAdapter(Context context, List<BranchModel> list) {
```

```
        this.context = context;
```

```
        this.list = list;
```

```
    }
```

```
    @Override
```

```
    public int getCount() {
```

```
        return list.size();
```

```
    }
```

```
    @Override
```

```
    public boolean isViewFromObject(@NonNull View view, @NonNull Object object) {
```

```
        return view.equals(object);
```

```
    }
```

```
    @NonNull
```

```
    @Override
```

```
    public Object instantiateItem(@NonNull ViewGroup container, int position) {
```

```
        View view = LayoutInflater.from(context).inflate(R.layout.branch_item_layout, container,  
false);
```

```
        ImageView branchIcon;
```

```
        TextView branchTitle, branchDes;
```

```
        branchIcon = view.findViewById(R.id.branchIcon);
```

```
        branchTitle = view.findViewById(R.id.branchTitle);
```

```

        branchDes = view.findViewById(R.id.branchDes);

        branchIcon.setImageResource(list.get(position).getImg());
        branchTitle.setText(list.get(position).getTitle());
        branchDes.setText(list.get(position).getDescription());

        container.addView(view, 0);
        return view;
    }

    @Override
    public void destroyItem(@NonNull ViewGroup container, int position, @NonNull Object object)
    {
        container.removeView((View) object);
    }
}

```

BranchAdapter.java

```

package akgecians.students.ui.about;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.viewpager.widget.PagerAdapter;

import java.util.List;

import akgecians.students.R;

public class BranchAdapter extends PagerAdapter {

    private Context context;
    private List<BranchModel> list;

```

```
public BranchAdapter(Context context, List<BranchModel> list) {  
    this.context = context;  
    this.list = list;  
}
```

```
@Override  
public int getCount() {  
    return list.size();  
}
```

```
@Override  
public boolean isViewFromObject(@NonNull View view, @NonNull Object object) {  
    return view.equals(object);  
}
```

```
@NonNull  
@Override  
public Object instantiateItem(@NonNull ViewGroup container, int position) {  
    View view = LayoutInflater.from(context).inflate(R.layout.branch_item_layout, container,  
false);
```

```
    ImageView branchIcon;  
    TextView branchTitle, branchDes;
```

```
    branchIcon = view.findViewById(R.id.branchIcon);  
    branchTitle = view.findViewById(R.id.branchTitle);  
    branchDes = view.findViewById(R.id.branchDes);
```

```
    branchIcon.setImageResource(list.get(position).getImg());  
    branchTitle.setText(list.get(position).getTitle());  
    branchDes.setText(list.get(position).getDescription());
```

```
    container.addView(view, 0);  
    return view;
```

```
}
```


@Override

public void destroyItem(@NonNull ViewGroup container, int position, @NonNull Object object)

{

 container.removeView((View) object);

}

}