package com.example.covid\_19alertapp.activities;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.content.ContextCompat;

import androidx.recyclerview.widget.LinearLayoutManager;

import androidx.recyclerview.widget.RecyclerView;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.os.Parcelable;

import android.view.LayoutInflater;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.RelativeLayout;

import android.widget.TextView;

import android.widget.Toast;

import com.example.covid\_19alertapp.R;

import com.example.covid\_19alertapp.adapters.CommentFeedAdapter;

import com.example.covid\_19alertapp.adapters.FeedAdapter;

import com.example.covid\_19alertapp.extras.Constants;

import com.example.covid\_19alertapp.extras.DateTimeHandler;

import com.example.covid\_19alertapp.models.Comment;

import com.google.android.gms.tasks.OnFailureListener;

import com.google.android.gms.tasks.OnSuccessListener;

import com.google.android.material.floatingactionbutton.FloatingActionButton;

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.MutableData;

import com.google.firebase.database.Transaction;

import com.google.firebase.database.ValueEventListener;

import java.util.ArrayList;

public class CommentFeedActivity extends AppCompatActivity {

AlertDialog dialogBuilder;

FloatingActionButton floatingActionButton;

EditText comment\_editText;

Button btn\_cancel, btn\_submit, btn\_home;

TextView post\_body, post\_auth, post\_datetime,comment\_bar;

SharedPreferences sharedPreferences;

DatabaseReference view\_reference,comment\_reference,cCount\_reference;

RecyclerView recyclerView;

ArrayList<Comment> commentList;

RelativeLayout relativeLayout;

CommentFeedAdapter commentFeedAdapter;

private Parcelable recyclerViewState;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.comment\_feed\_activity);

comment\_reference = FirebaseDatabase.getInstance().getReference().child("Posts").child(FeedAdapter.POST.getPostID());

recyclerView = findViewById(R.id.recyclerView\_comment\_feed);

relativeLayout = findViewById(R.id.relief\_line\_commentfeed);

btn\_home = findViewById(R.id.home\_button\_comment\_feed);

post\_body = findViewById(R.id.description\_Text\_comment\_feed);

post\_auth = findViewById(R.id.textView\_username\_comment\_feed);

post\_datetime = findViewById(R.id.textView\_DatenTime\_comment\_feed);

comment\_bar = findViewById(R.id.comment\_bar);

//Set Post

post\_body.setText(FeedAdapter.POST.getPostBody());

post\_auth.setText(FeedAdapter.POST.getUserName());

if(FeedAdapter.POST.getPostType().equals("RELIEF"))

{

relativeLayout.setBackgroundColor(ContextCompat.getColor(getApplicationContext(), R.color.color\_item\_view\_relief\_line));

}

String post\_date = FeedAdapter.POST.getDate();

if(post\_date.equals(DateTimeHandler.DateToday()))

{

post\_date = "Today";

}

String post\_date\_time = post\_date + ", " + FeedAdapter.POST.getTime();

post\_datetime.setText(post\_date\_time);

//Create Comment

floatingActionButton = findViewById(R.id.floatingActionButton\_comment\_feed);

dialogBuilder = new AlertDialog.Builder(this).create();

LayoutInflater inflater = this.getLayoutInflater();

View dialogView = inflater.inflate(R.layout.post\_comment\_view, null);

btn\_submit = dialogView.findViewById(R.id.btn\_submit\_comment);

btn\_cancel = dialogView.findViewById(R.id.btn\_cancel\_comment);

comment\_editText = dialogView.findViewById(R.id.editText\_comment);

dialogBuilder.setView(dialogView);

btn\_cancel.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

comment\_editText.setText("");

dialogBuilder.dismiss();

}

});

btn\_home.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

finish();

}

});

btn\_submit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

//Write Post Comment Function

sharedPreferences = getSharedPreferences(Constants.USER\_INFO\_SHARED\_PREFERENCES,MODE\_PRIVATE);

String user\_name = sharedPreferences.getString(Constants.username\_preference,null);

String user\_ID = sharedPreferences.getString(Constants.uid\_preference,null);

String comment\_ID = comment\_reference.push().getKey();

Comment comment = new Comment();

comment.setComment\_date(DateTimeHandler.DateToday());

comment.setComment\_text(comment\_editText.getText().toString());

comment.setComment\_time(DateTimeHandler.TimeNow());

comment.setPost\_id(FeedAdapter.POST.getPostID());

comment.setUser\_name(user\_name);

comment.setUser\_id(user\_ID);

comment.setComment\_id(comment\_ID);

if(FeedAdapter.POST.getPostType().equals("RELIEF"))

{

if(FeedAdapter.POST.getUserID().equals(user\_ID))

{

comment.setUser\_name("Anonymous");

}

}

comment\_reference.child("Comments").child(comment\_ID).setValue(comment)

.addOnSuccessListener(new OnSuccessListener<Void>() {

@Override

public void onSuccess(Void aVoid) {

increaseCommentCount();

comment\_editText.setText("");

dialogBuilder.dismiss();

}

}).addOnFailureListener(new OnFailureListener() {

@Override

public void onFailure(@NonNull Exception e) {

Toast.makeText(getApplicationContext(),"Failed: Check Internet Connection",Toast.LENGTH\_SHORT);

}

});

}

});

floatingActionButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

dialogBuilder.show();

}

});

//RecyclerView

LinearLayoutManager manager = new LinearLayoutManager(this);

recyclerView.setLayoutManager(manager);

recyclerView.setHasFixedSize(true);

view\_reference = FirebaseDatabase.getInstance().getReference().child("Posts").child(FeedAdapter.POST.getPostID()).child("Comments");

view\_reference.addValueEventListener(new ValueEventListener() {

@Override

public void onDataChange(@NonNull DataSnapshot dataSnapshot) {

commentList = new ArrayList<>();

for(DataSnapshot dataSnapshot1:dataSnapshot.getChildren())

{

Comment comment = dataSnapshot1.getValue(Comment.class);

commentList.add(comment);

}

if(commentList.isEmpty()) {comment\_bar.setText("No Comments Yet");}

//Collections.reverse(commentList);

commentFeedAdapter = new CommentFeedAdapter(getApplicationContext(),commentList);

recyclerViewState = recyclerView.getLayoutManager().onSaveInstanceState();

recyclerView.setAdapter(commentFeedAdapter);

recyclerView.getLayoutManager().onRestoreInstanceState(recyclerViewState);

}

@Override

public void onCancelled(@NonNull DatabaseError databaseError) {

Toast.makeText(getApplicationContext(),"Something Wrong!\nCheck Internet Connection.", Toast.LENGTH\_LONG).show();

}

});

}

public void increaseCommentCount()

{

cCount\_reference = FirebaseDatabase.getInstance().getReference("Posts").child(FeedAdapter.POST.getPostID()).child("commentCount");

cCount\_reference.runTransaction(new Transaction.Handler() {

@Override

public Transaction.Result doTransaction(MutableData mutableData) {

Integer score = mutableData.getValue(Integer.class);

if (score == null) { return Transaction.success(mutableData); }

mutableData.setValue(score + 1);

return Transaction.success(mutableData);

}

@Override

public void onComplete(DatabaseError databaseError, boolean b, DataSnapshot dataSnapshot) {}

});

}

}