

JAWAHARLAL NEHRU ENGINEERING COLLEGE

Department of Computer Science and Engineering

(Mahatma Gandhi Mission University, Chhatrapati Sambhaji Nagar)

MAD PROJECT REPORT

ON

“Donation App”

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Github link:

<https://github.com/Anilj21/DonationApp.git>

Code:

1. Login

```
DonorDashboardActivity.java  NGOActivity.java  RegisterActivity.java  UploadItemActivity.java  LoginActivity.java
File Edit View

DatabaseReference reference = FirebaseDatabase.getInstance().getReference("users");
Query checkUser = reference.orderByChild("email").equalTo(userEmail);

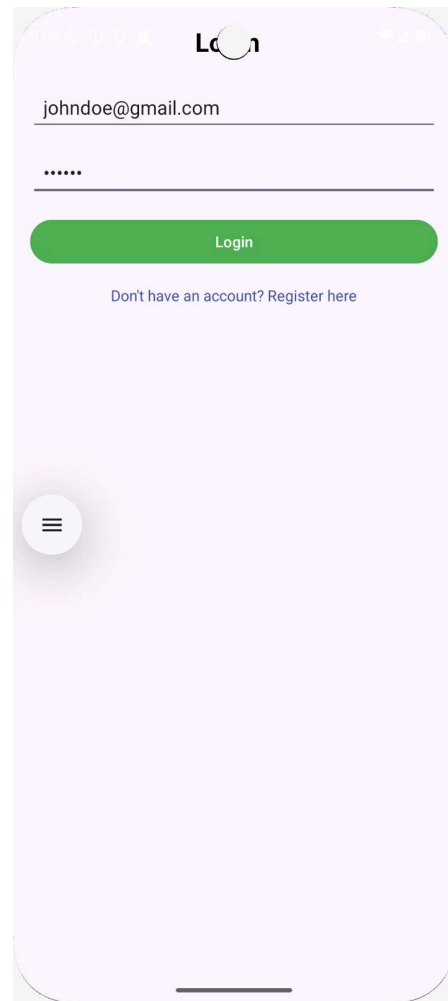
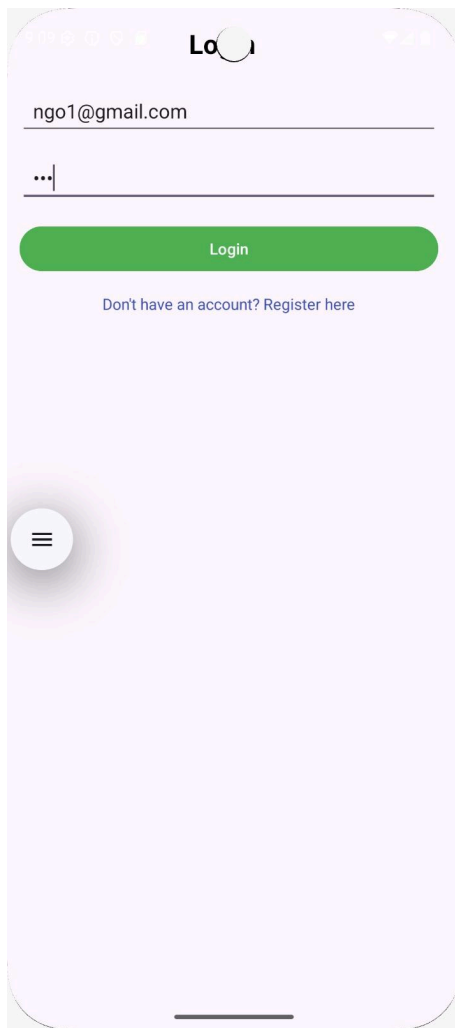
checkUser.addListenerForSingleValueEvent(new ValueEventListener() {
    @Override
    public void onDataChange(@NonNull DataSnapshot snapshot) {
        if (snapshot.exists()) {
            for (DataSnapshot userSnapshot : snapshot.getChildren()) {
                String passwordFromDB = userSnapshot.child("password").getValue(String.class);
                String role = userSnapshot.child("role").getValue(String.class);
                String name = userSnapshot.child("name").getValue(String.class); // in case you want to use it later
                String userId = userSnapshot.getKey(); // key from db

                if (Objects.equals(passwordFromDB, userPassword)) {
                    // Navigate based on role
                    Intent intent;
                    if ("ngo".equalsIgnoreCase(role)) {
                        intent = new Intent(LoginActivity.this, NGOActivity.class);
                    } else if ("donor".equalsIgnoreCase(role)) {
                        intent = new Intent(LoginActivity.this, DonorDashboardActivity.class);
                    } else {
                        Toast.makeText(LoginActivity.this, "Unknown role: " + role, Toast.LENGTH_SHORT).show();
                        return;
                    }

                    intent.putExtra("userId", userId); // pass user ID
                    startActivity(intent);
                    finish();
                    return;
                } else {
                    passwordInput.setError("Invalid password!");
                    passwordInput.requestFocus();
                    return;
                }
            }
        } else {
            emailInput.setError("User does not exist");
            emailInput.requestFocus();
        }
    }

    @Override
    public void onCancelled(@NonNull DatabaseError error) {
        Toast.makeText(LoginActivity.this, "Database error: " + error.getMessage(), Toast.LENGTH_SHORT).show();
    }
});
}
```

Ln 1, Col 1 4,966 characters 90% Windows (CRLF) UTF-8



2.DonarDashboard:

```

DonorDashboardActivity.java | NGOActivity.java | RegisterActivity.java | UploadItemActivity.java | LoginActivity.java | +
File Edit View
private DatabaseReference itemRef;
private String donorId;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_upload_item);

    etName = findViewById(R.id.etItemName);
    etDescription = findViewById(R.id.etItemDescription);
    etQuantity = findViewById(R.id.etItemQuantity);
    btnUpload = findViewById(R.id.btnSubmitItem);

    donorId = getIntent().getStringExtra("userId");
    itemRef = FirebaseDatabase.getInstance().getReference("items");

    btnUpload.setOnClickListener(v -> {
        String name = etName.getText().toString().trim();
        String description = etDescription.getText().toString().trim();
        String quantityStr = etQuantity.getText().toString().trim();

        if (name.isEmpty() || description.isEmpty() || quantityStr.isEmpty()) {
            Toast.makeText(this, "All fields are required", Toast.LENGTH_SHORT).show();
            return;
        }

        int quantity;
        try {
            quantity = Integer.parseInt(quantityStr);
        } catch (NumberFormatException e) {
            Toast.makeText(this, "Quantity must be a number", Toast.LENGTH_SHORT).show();
            return;
        }

        String itemId = itemRef.push().getKey();
        Item item = new Item(itemId, name, description, donorId, quantity, "");

        itemRef.child(itemId).setValue(item)
            .addOnSuccessListener(unused -> {
                Toast.makeText(this, "Item uploaded!", Toast.LENGTH_SHORT).show();
                finish();
            })
            .addOnFailureListener(e ->
                Toast.makeText(this, "Upload failed: " + e.getMessage(), Toast.LENGTH_SHORT).show());
    });
}

```

9:07

40

Puzzles and toys

Snake and Ladder, Ludo and cars

5

Upload Item

9:08

40

Blankets

Winter Blankets

10

Upload Item

 Item uploaded!

3.DonorDashboard:

```
DonorDashboardActivity.java x NGOActivity.java RegisterActivity.java UploadItemActivity.java LoginActivity.java +
File Edit View

package com.example.donation_app.view;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import android.widget.Toast;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.example.donation_app.R;
import com.example.donation_app.adapter.ItemAdapter;
import com.example.donation_app.model.Item;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;

import java.util.ArrayList;
import java.util.List;
import androidx.swiperefreshlayout.widget.SwipeRefreshLayout;

public class DonorDashboardActivity extends AppCompatActivity {

    private RecyclerView recyclerView;
    private ItemAdapter itemAdapter;
    private List<Item> itemList;
    private Button btnLogout, btnUploadItem;
    private String userId;

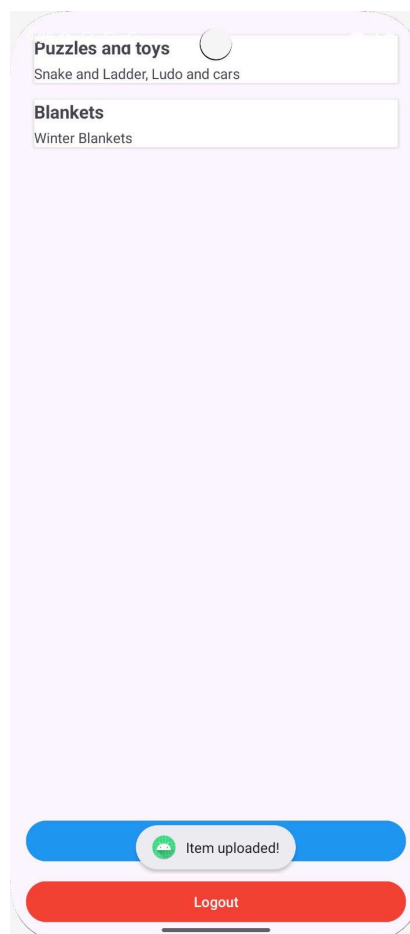
    private SwipeRefreshLayout swipeRefreshLayout;

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_donor_dashboard);

        swipeRefreshLayout = findViewById(R.id.swipeRefreshLayout);
        recyclerView = findViewById(R.id.recyclerViewDonations);
        btnLogout = findViewById(R.id.btnLogout);
        btnUploadItem = findViewById(R.id.btnUploadItem);

        recyclerView.setLayoutManager(new LinearLayoutManager(this));
        itemList = new ArrayList<>();

        Ln 31, Col 45 3,912 characters 90% Windows (CRLF) UTF-8
```



4.NGOActivity:

```
DonorDashboardActivity.java  NGOActivity.java  RegisterActivity.java  UploadItemActivity.java  LoginActivity.java
File Edit View

package com.example.donation_app.view;

import android.os.Bundle;
import android.view.View;
import android.widget.ProgressBar;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.example.donation_app.R;
import com.example.donation_app.adapter.ItemAdapter;
import com.example.donation_app.model.Item;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;

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

public class NGOActivity extends AppCompatActivity {

    private RecyclerView recyclerView;
    private ProgressBar progressBar;
    private ItemAdapter itemAdapter;
    private List<Item> itemList;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_ngo); // Ensure this layout exists

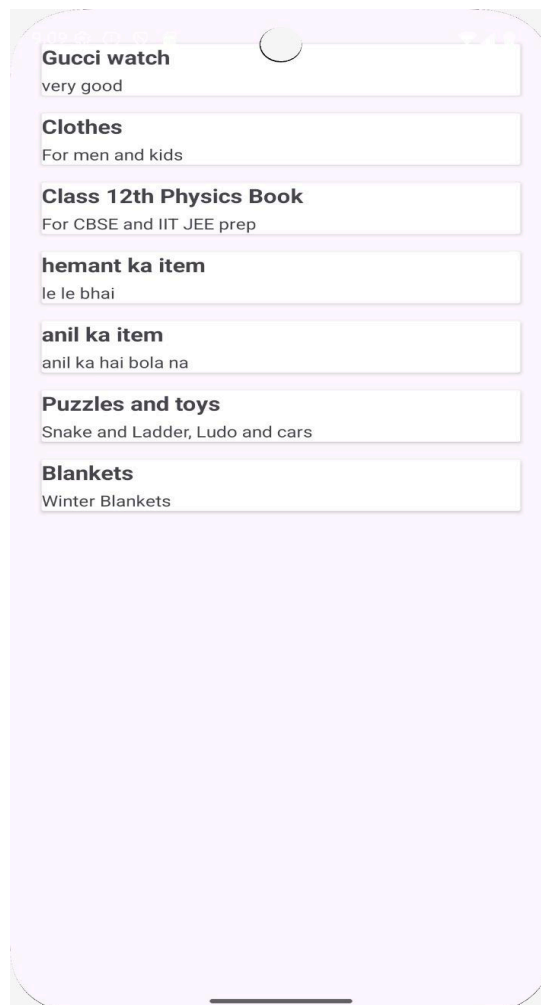
        recyclerView = findViewById(R.id.recyclerViewItems); // Add this ID in your layout XML
        progressBar = findViewById(R.id.progressBar); // Add this ID in your layout XML
        itemList = new ArrayList<>();
        itemAdapter = new ItemAdapter(this, itemList);

        recyclerView.setLayoutManager(new LinearLayoutManager(this));
        recyclerView.setAdapter(itemAdapter);

        loadDonationItems();
    }

    private void loadDonationItems() {

```



5.Database:

https://donationapp-65492-default-rtdb.firebaseio.com

⚠️ Your security rules are defined as public, so anyone can steal, modify, or delete data in your database [Learn more](#) [Dismiss](#)

https://donationapp-65492-default-rtdb.firebaseio.com/

```
items
  -OORCJ1xIsIo_M7qUeNH
    description: "very good"
    donorId: "anil"
    id: "-OORCJ1xIsIo_M7qUeNH"
    name: "Gucci watch"
  -OORWtN7Dn01-qm2tzAs
  -OORaOkP2MrD1eg2kaov
  -OOResRihxfyxQvI2kJe
    description: "le le bhai"
    donorId: "hemant"
    id: "-OOResRihxfyxQvI2kJe"
    imageUrl: ""
    name: "hemant ka item"
    quantity: 15
  -OORsZc8i44Af@VwSTbS

users
  anil
  hemant
    email: "hemant@gmail.com"
    isVolunteer: true
    name: "hemant"
    password: "1234"
    role: "donor"
  ngo1
    email: "ngo1@gmail.com"
    isVolunteer: false
    name: "ngo1"
    password: "123"
    role: "ngo"
```