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Lab 14 – Project

Application selected: COVI-need Helper

Concepts applied: Multiple types of Views and Buttons, Activities and Intents,
ListView, Data storage in text file (reading and writing), CoordinatorLayout,
Music player, and miscellaneous.
Tried to include many concepts by spending many hours

Full code on GitHub - https://github.com/vh-praneeth/COVI-neeD_helper
I added only 2 pages codes in document as per the instructions by the faculty in
a mail.

MainActivity.java

```java
package com.example.covineedhelper;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.*;

public class MainActivity extends AppCompatActivity {
    Button cowinTracker, requestItems, appDetails;

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

        MediaPlayer player = MediaPlayer.create(
                MainActivity.this, R.raw.guitar);
        player.start();

        bindViews();

        cowinTracker.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                try {
                    Intent intent = new Intent(MainActivity.this,
                            CowinTrackerActivity.class);
```

```java
                startActivity(intent);
            } catch (Exception e)    {
                showToast(e.toString());
            }
        }
    });
    requestItems.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            try {
                Intent intent = new Intent(MainActivity.this,
                        ItemRequestActivity.class);
                startActivity(intent);
            } catch (Exception e)    {
                showToast(e.toString());
            }
        }
    });
    appDetails.setOnClickListener(new View.OnClickListener()  {
        @Override
        public void onClick(View v)  {
            try {
                Intent intent = new Intent(MainActivity.this,
                        AppDetailsActivity.class);
                startActivity(intent);
            } catch (Exception e)    {
                showToast(e.toString());
            }
        }
    });
    }
    void showToast(String txt)     {
        Toast.makeText(MainActivity.this, txt,
                Toast.LENGTH_SHORT).show();
    }
    void bindViews()     {
        cowinTracker = findViewById(R.id.cowinTracker);
        requestItems = findViewById(R.id.requestItems);
        appDetails = findViewById(R.id.appDetails);
    }
}
```

ItemRequestActivity.java

```java
package com.example.covineedhelper;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.os.Bundle;
import android.view.*;
import android.widget.*;

public class ItemRequestActivity extends AppCompatActivity {
```

```java
    ListView listView;
    ImageView backBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_item_request);
        backBtn = findViewById(R.id.backBtn);
        backBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                finish();
            }
        });

        listView = findViewById(R.id.listView);
        listView.setAdapter(new MyAdapter(this));
    }

    private class MyAdapter extends BaseAdapter {
        Context mycontext1;
        String[] namesArr = {"Oxygen Concentrator", "Oxygen cylinder",
                "Blood - Group A+", "Blood - Group B-", "Paracetamol",
"Vitamin tablets"};
        String[] priceArr = {"₹ 49", "₹ 39", "₹ 44", "₹ 41", "₹ 10
(Including GST)", "₹ 12 (Excluding GST)"};
        public MyAdapter(ItemRequestActivity ma) { mycontext1 = ma; }
        @Override
        public int getCount() { return namesArr.length; }
        @Override
        public Object getItem(int position) { return null; }
        @Override
        public long getItemId(int position) { return 0; }
        @Override
        public View getView(int position, View convertView, ViewGroup
parent) {
            View view = LayoutInflater.from(mycontext1).inflate(
                        R.layout.my_list_item, parent, false);
            TextView textView1 = view.findViewById(R.id.textView);
            textView1.setText(namesArr[position]);
            view.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    setContentView(R.layout.item_details);
                    TextView textView1 = findViewById(R.id.textView);
                    TextView price = findViewById(R.id.price);
                    textView1.setText(namesArr[position]);
                    price.setText(priceArr[position]);

                    ImageView backBtn1;
                    backBtn1 = findViewById(R.id.backBtn);
                    backBtn1.setOnClickListener(new
View.OnClickListener() {
                        @Override
                        public void onClick(View v) {
                            finish();
```

```
                }
            });
        }
    } );
        return view;
    }
}
}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">


    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginTop="50dp"
        android:layout_centerHorizontal="true"
        android:text="COVI-neeD helper"
        android:textColor="@android:color/holo_green_dark"
        android:textSize="24dp"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginTop="90dp"
        android:layout_centerHorizontal="true"
        android:text="Supports everyone during COVID times"
        android:textSize="18dp" />

    <Button
        android:id="@+id/cowinTracker"
        android:layout_width="200dp"
        android:layout_height="70dp"
        android:layout_marginTop="180dp"
        android:textSize="18dp"
        android:text="CoWIN Tracker"
        android:backgroundTint="@android:color/holo_orange_dark"
        android:layout_centerHorizontal="true"/>

    <Button
        android:id="@+id/requestItems"
        android:layout_width="200dp"
        android:layout_height="70dp"
```

```xml
            android:textSize="18dp"
            android:text="Request items"
            android:layout_marginTop="250dp"
            android:layout_centerHorizontal="true"
            android:textColor="#000088"
            android:backgroundTint="@android:color/white"
            app:strokeColor="@android:color/holo_blue_light"
            app:strokeWidth="2dp"/>

    <Button
            android:id="@+id/appDetails"
            android:layout_width="200dp"
            android:layout_height="70dp"
            android:textSize="18dp"
            android:text="App details"
            android:layout_marginTop="320dp"
            android:layout_centerHorizontal="true"
            android:backgroundTint="#128807"/>

</RelativeLayout>
```

activity_item_request.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <ImageView
        android:id="@+id/backBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/back"
        android:translationX="10dp"
        android:translationY="10dp"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select your requirement/availability(for
donation)"
        android:textSize="15dp"
        android:layout_margin="10dp"
        android:translationY="50dp"/>

    <ListView
        android:id="@+id/listView"
        android:padding="10dp"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="90dp"
```
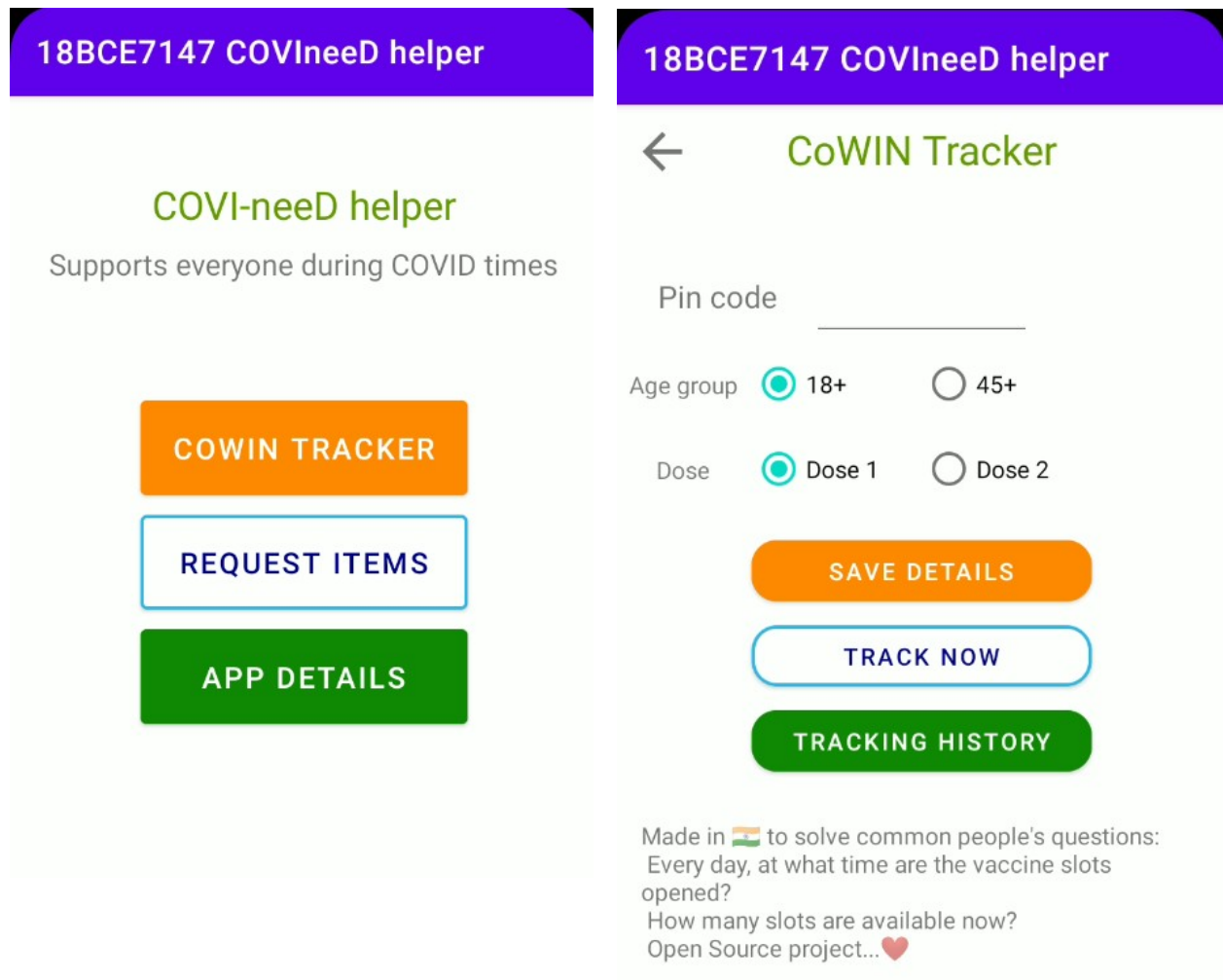
```
        android:layout_width="500dp"
        android:layout_height="500dp"/>

</RelativeLayout>
```

Screenshots:

Track now

Tracked on: 11-06-2021 07:03

11-06-2021 - 0
12-06-2021 - 2
13-06-2021 - 1

Tracking history

This is the stored data:
Tracked on: 11-06-2021 07:03

11-06-2021 - 0
12-06-2021 - 2
13-06-2021 - 1

Tracked on: 11-06-2021 07:04

11-06-2021 - 0
12-06-2021 - 2
13-06-2021 - 1

Request Items / Donate

Select your requirement/availability(for donation)

Oxygen Concentrator

Oxygen cylinder

Blood - Group A+

Blood - Group B-

Paracetamol

Vitamin tablets

Oxygen Concentrator

₹ 49

REQUEST NOW

DONATE NOW