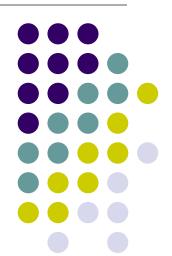
Android Mobile App Development

Submitted by:

Nusrath Jahan Shawon (C233449) Skills Development And Job Preparation App name: NEXT STEP

Submitted to:

Radiathun Tasnia Assistant Lecturer CSE, IIUC



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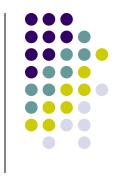
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Introduction

NEXT STEP is the Skills Development and Job Preparation Hub that is designed to help users find and access courses, government programs, or internships, along with daily tips on skills like CV building, interview prep, and language learning. **NEXT STEP** is for high school students, undergraduates, and graduates seeking careerbuilding skills. It offers resources for job prep, skill development, and language learning to support early career growth, making it ideal for anyone preparing to enter or advance in the workforce.

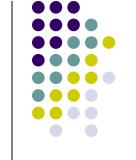




Many job seekers in Bangladesh lack access to comprehensive platforms for skill development, career guidance, and job preparation.

Objective

To bridge the gap in resource availability, supporting users in navigating the job market, upskilling effectively, and preparing thoroughly for employment.



Use Cases

Skill Development Courses: Courses in technical and soft skills.

Job Listings and Alerts: Local and international job opportunities.

CV and Portfolio Builder: Tools for CV and portfolio management.

Interview Preparation: Mock interviews with Al feedback.

Mentorship Matching: Connect with industry professionals.

Industry Updates and Resources: Curated job market content.

Custom Learning Paths: Tailored experiences for job roles.



LAYOUT & FEATURES

Layout & Features (1) Manifest.java

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   <application
           android:exported="false" />
       <activity
                                                                               "1.0" encoding="utf-8"?>
           android:name=".LanguageLearning"
                                                                               s:android="http://schemas.android.com/apk/res/android"
           android:exported="false" />
                                                                               s="http://schemas.android.com/tools">
       <activity
           android:name=".CareerGuidelines"
                                                                              ission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
           android:exported="false" />
       <activity
           android:name=".MakeCV"
                                                                               d:allowBackup="true"
           android:exported="false" />
                                                                               d:dataExtractionRules="@xml/data_extraction_rules"
       <activity
                                                                               d:fullBackupContent="@xml/backup_rules"
           android:name=".SkillsDevelopment"
                                                                               d:icon="@drawable/logo"
           android:exported="false" />
                                                                               d:label="NEXT STEP"
       <activity
                                                                               d:roundIcon="@drawable/logo"
           android:name=".JobPreparation"
                                                                               d:supportsRtl="true"
           android:exported="false" />
                                                                               d:theme="@style/Theme.MyApplication"
                                                                               targetApi="31">
           android:name=".MainActivity"
           android:exported="false" />
                                                                               droid:name=".ChecklistProvider"
       <activity
                                                                               droid:authorities="com.yourapp.checklistprovider"
           android:name=".SplashScreen"
                                                                               droid:exported="true" />
           android:configChanges="orientation|keyboardHidden|screenSize"
           android:exported="true"
                                                                               droid:name=".ChecklistActivity"
           android:label="NEXT STEP"
                                                                               droid:windowSoftInputMode="adjustResize"
           android:theme="@style/Theme.MyApplication">
                                                                               droid:exported="false" />
           <intent-filter>
               <action android:name="android.intent.action.MAIN" />
                                                                               droid:name=".DisplayCV"
                                                                               droid:exported="false" />
               <category android:name="android.intent.category.LAUNCHER" />
           </intent-filter>
                                                                               droid:name=".BaseActivity"
       </activity>
                                                                               droid:exported="false" />
   </application>
                                                                               droid:name=".Home"
</manifest>
                                                                               droid:exported="false" />
                                                                         <activity
                                                                            android:name=".LanguageLearning"
```

android:exported="false" />

Layout & Features (2) Activity Lifecycle tracked

Ľ

2024-11-02 08:16:02.371 1447-1538

2024-11-02 08:16:02.384 1447-1447

2024-11-02 08:16:02.389 1447-1447

2024-11-02 08:16:02.373 1447-1447 DecorView

2024-11-02 08:16:02.380 1447-1447 InsetsController

2024-11-02 08:16:02.386 1447-1447 MSHandlerLifeCycle

2024-11-02 08:16:02.400 1447-1447 MSHandlerLifeCycle

2024-11-02 08:16:02.401 1447-1538 OpenGLRenderer

```
@Override
            protected void onResume() {
                 super.onResume();
                 Log.i( tag: "state", msg: "onResume() Method is Called");
             @Override
            protected void onPause() {
                 super.onPause();
                 Log.i( tag: "state", msg: "onPause() Method is Called");
             @Override
            protected void onStop() {
                 super.onStop();
                 Log.i( tag: "state", msg: "onStop() Method is Called");
            @Override
            protected void onRestart() {
                 super.onRestart();
                 Log.i( tag: "state", msg: "onRestart() Method is Called");
2024-11
                                                                                                   [INFO] isPopOver=false config=true
2024-11
                                                                                                   updateCaptionType: isFloating=false isApplication=true hasWindowDecorCapt
                                                                              cation
2024-11
                                                                              cation
             @Override
                                                                                                   getCurrentDensityDpi: from real metrics. densityDpi=420 msg=resources_loa
2024-11
             protected void onDestroy() {
2024-11
                 super.onDestroy();
                                                                                                   setWindowBackground: isPopOver=false color=ffffffff d=android.graphics.dr
                                                                              cation
                 Log.i( tag: "state", msg: "onDestroy() Method is Called");
2024-11
                                                                              cation
2024-11
                                                                              cation
2024-1
2024-11-02 08:16:02.357 1447-1447 state
                                                                                                I App is created!
                                                           com.example.myapplication
2024-11-02 08:16:02.364 1447-1447 state
                                                                                                I onResume() Method is Called
2024-11-02 08:16:02.365 1447-1447 MSHandlerLifeCycle
                                                                                                   check: return. pkg=com.example.myapplication parent=null callers=com.andr
                                                           com.example.myapplication
2024-11-02 08:16:02.365 1447-1447 MSHandlerLifeCycle
                                                                                                   removeMultiSplitHandler: no exist. decor=DecorView@a076bab[]
                                                           com.example.myapplication
```

NativeCust...ncyManager com.example.myapplication

ViewRootIm...nActivity] com.example.myapplication

com.example.myapplication

com.example.myapplication

com.example.myapplication

com.example.myapplication

com.example.myapplication

com.example.myapplication

notifyKeepScreenOnChanged: keepScreenOn=false

onPause() Method is Called

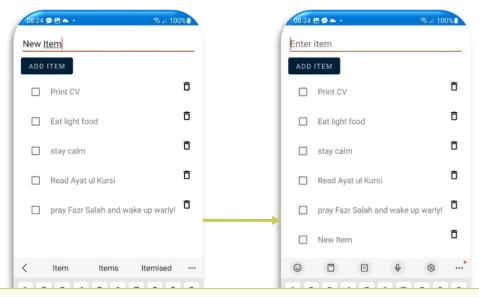
setView = com.android.internal.policy.DecorView@a076bab TM=true removeMultiSplitHandler: no exist. decor=DecorView@a076bab[MainActivity]

removeMultiSplitHandler: no exist. decor=DecorView@c4912df[SplashScreen]



Layout & Features (3) Content Provider (attempted; future vision)

Inserting data, Loading Data, Deleting Data from SQLite

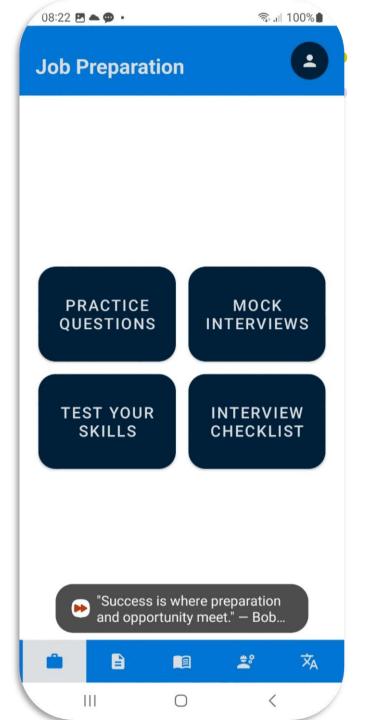




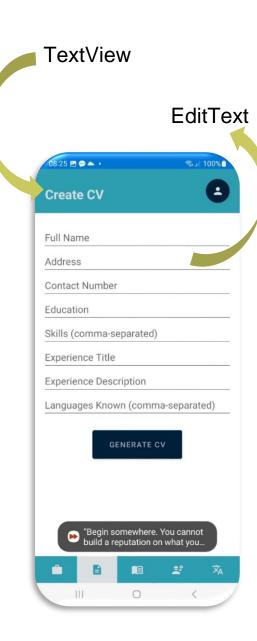
```
//into ChecklistItem.java
private void loadChecklistItems() {
    Cursor cursor = getContentResolver().query(ChecklistProvider.CONTENT_URI, null, null, null), null);
    if (cursor != null) {
        while (cursor.moveToNext()) {
            String itemText = cursor.getString(cursor.getColumnIndex("item")); // Use the correct column name checklistItems.add(new ChecklistItem(itemText, false));
        }
        cursor.close();
    }
    checklistAdapter.notifyDataSetChanged();
}
```

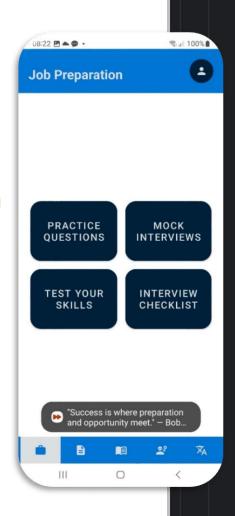
Layout & Features (4) Layout

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
   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:id="@+id/job_preparation"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   tools:context=".JobPreparation">
   <LinearLayout....>
    <!-- Grid Layout for Buttons -->
   <GridLayout ....>
   <!-- Bottom Nav Bar-->
   <LinearLayout ....>
</androidx.constraintlayout.widget.ConstraintLayout>
```



Layout & Features (5) Views



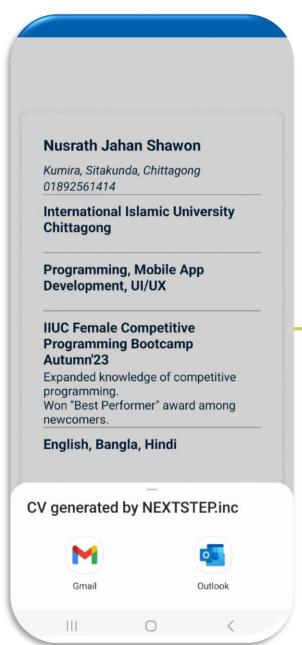


```
<GridLayout
    <Button
        android:id="@+id/btn_mock_interviews"
        android:layout_width="0dp"
        android:layout_height="120dp"
        android:layout_columnWeight="1"
        android:layout_margin="8dp"
        android:background="@drawable/button_background"
        android:padding="16dp"
        android:text="Mock Interviews"
        android:textColor="@color/asset_light"
        android:textSize="18sp" />
    <Button
        android:id="@+id/btn_skill_tests"
        android:layout_width="0dp"
        android:layout_height="120dp"
        android:layout_columnWeight="1"
        android:layout_margin="8dp"
        android:background="@drawable/button_background"
        android:padding="16dp"
        android:text="Test Your SKills"
        android:textColor="@color/asset_light"
        android:textSize="18sp" />
    <Button
        android:id="@+id/btn_checklist"
        android:layout_width="0dp"
        android:layout_height="120dp"
        android:layout_columnWeight="1"
        android:layout_margin="8dp"
        android:background="@drawable/button_background"
        android:padding="16dp"
        android:text="Interview Checklist"
        android:textColor="@color/asset_light"
```

<androidx.constraintlayout.widget.ConstraintLayout</p>

android:textSize="18sp" />

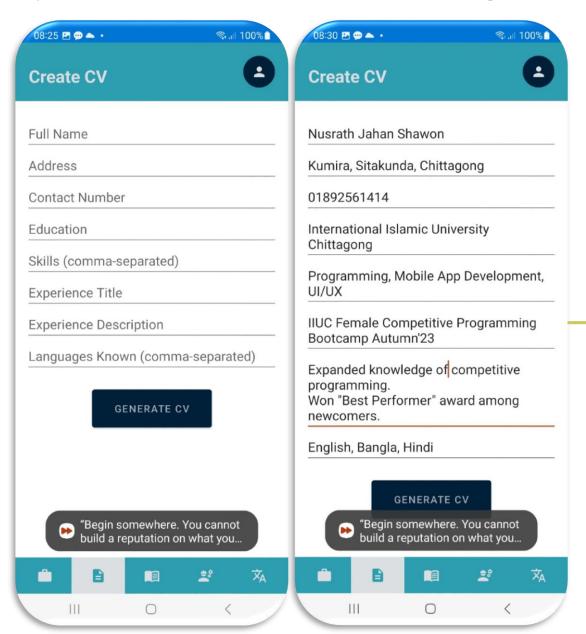
Layout & Features (6) Implicit Intent

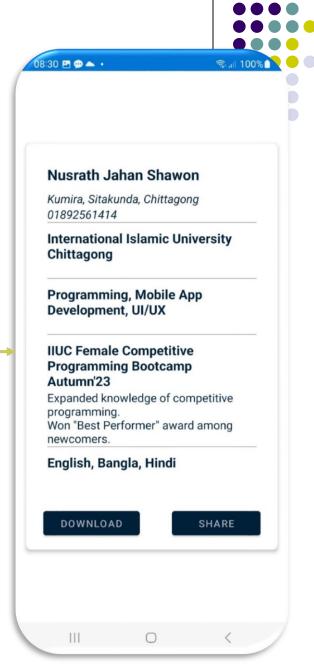






Layout & Features (7) Bundle Data Passing

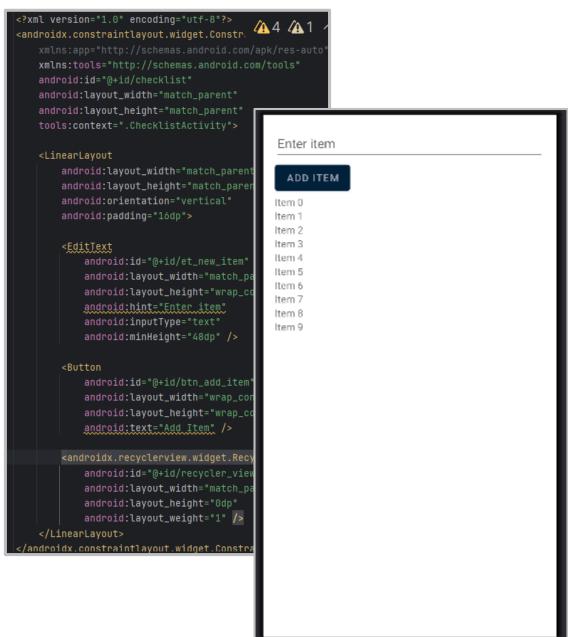


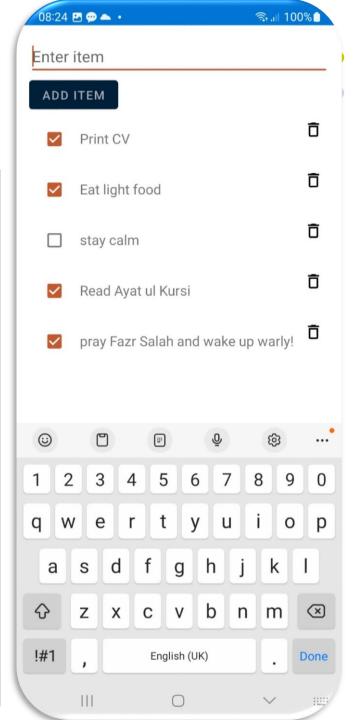


Layout & Features (8) Bundle Data Passing

```
package com.example.myapplication;
public class DisplayCV extends AppCompatActivity {
   private static final int REQUEST_CODE = 1; 2 usages
   private TextView tvFullName, tvAddress, tvContact, tvEducation, tvSkills, tvExperienceTitle, tvExperienceDescription, tvLanguages;
   private Button btnDownload; 2 usages
   private Button btnShare; 2 usages
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_display_cv);
       tvFullName = findViewById(R.id.tv_full_name);
       tvAddress = findViewById(R.id.tv_address);
       tvContact = findViewById(R.id.tv_contact);
       tvEducation = findViewById(R.id.tv_education);
       tvSkills = findViewById(R.id.tv_skills);
        tvExperienceTitle = findViewById(R.id.tv_experience_title);
       tvExperienceDescription = findViewById(R.id.tv_experience_description);
       tvLanguages = findViewById(R.id.tv_languages);
       // Initialize Buttons
       btnDownload = findViewById(R.id.btn_download);
        btnShare = findViewById(R.id.btn_share);
       Bundle extras = getIntent().getExtras();
       if (extras != null) {
           setCVData(extras);
```

Layout & Features (9) List View





SWOT Analysis

 Comprehensive Resource, local relevance, networking and mentorship

Strength

 Continuous contents updates required; market penetration challenges;
 technological barriers

Weakness

Oppurtunities

 Rising development for skills development; global job market access; collaboration with educational institutions **Threats**

 Competition from established platforms; economic instability; regulatory changes

Cost Overview

Google Play Store Fee: ~2,700 BDT (one-time)

Backend Infrastructure: 1,000–3,000 BDT/month

Testing: 2,000–5,000 BDT (one-time)

For quality assurance and a seamless user experience.

Content Creation: 5,000–15,000 BDT (optional)

For professional content to enhance the app's value.

Marketing & Promotion: 3,000–10,000 BDT (optional)

Ongoing Maintenance & Updates: 1,500-3,000 BDT/month

Total Estimated Cost

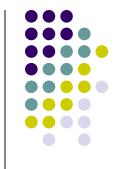
Initial Launch Costs (one-time):

Minimum: 14,700 BDT Maximum: 34,700 BDT

Ongoing Monthly Costs (if needed):

Minimum: 2,500 BDT/month Maximum: 6,000 BDT/month

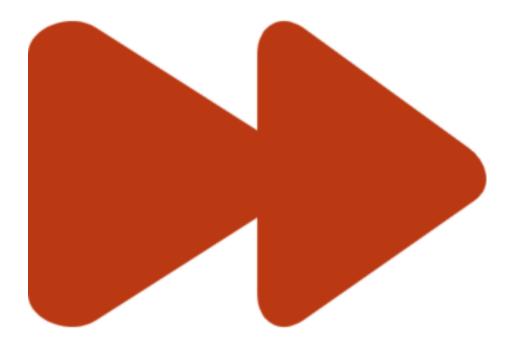




"Best android app developer is the one who is best at decoding."

~~~ Radia Thun Tasnia





#### **Assalamu Alaikum**

#### Thank you for your time and attention!

I appreciate the opportunity to share this project with you. Now, let's bring it to life—let's run the app on a real device and see it in action!