YouTube Media Player-

Implement YouTube Media Player and Play Video

1. Task Description

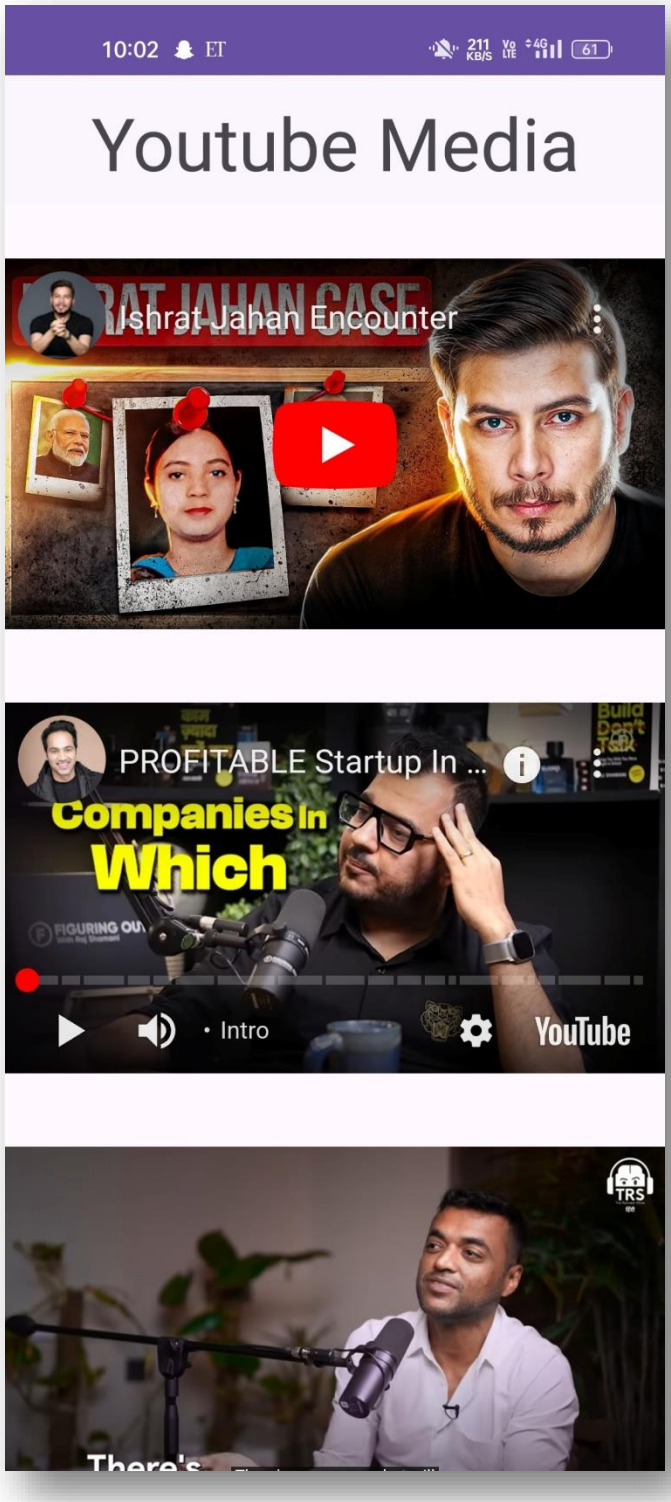
In this task, you will implement a YouTube Media Player in an Android application using the **Android-YouTube-Player Library**. The application will play a YouTube video when the screen is loaded.

The process includes the following steps:

1. Add the dependency of Android-YouTube-Player.
2. The app will display a YouTube video player on the screen.
3. Upon launching the app, the video will automatically load and start playing from the specified YouTube Video ID.
4. The activity will manage the lifecycle of the YouTube player and release resources when the activity is destroyed.

2. Task Output Screenshot

- **Screen 1:**


10:02 ET
Youtube Media
Ishrat Jahan Encounter
PROFITABLE Startup In ...
Companies In
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YouTube
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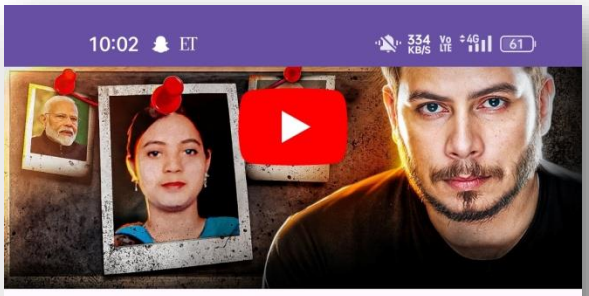
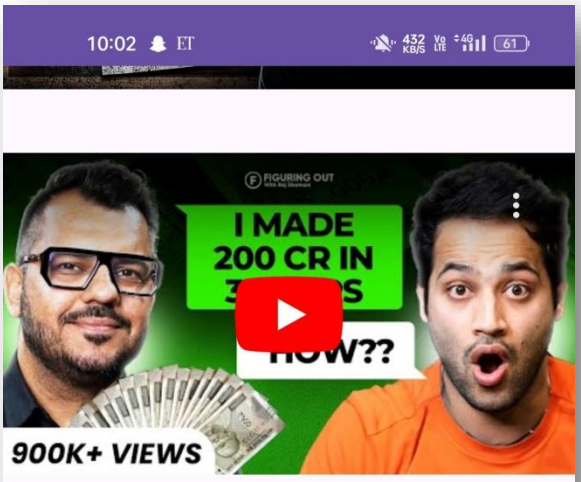


PROFITABLE Startup In ...
Companies In
Which
• Intro
YouTube

Deepinder Goyal's Jour...
I actually want to know about those phases
We had funds to survive for 4 months only.
Episode की शुरूआत
YouTube

'One Bottle Down' Full Song ...
GULSHAN KUMAR PRESENTS
BHUSHAN KUMAR'S
LYRICAL


I MADE
200 CR IN
900K+ VIEWS

Deepinder Goyal's Jour...
Do you personally write
Zomato's notifications?
Episode की शुरूआत
YouTube

'One Bottle Down' Full Song ...
GULSHAN KUMAR PRESENTS
BHUSHAN KUMAR'S
LYRICAL
BOTTLE
DOWN
YO YO HONEY SINGH
HD VIDEO

3. Widget/Algorithm Used In Task

Widgets:

- **YouTubePlayerView**
  This widget is used to display the YouTube player inside your Android app. It embeds the YouTube video player and allows the app to load and play videos by interacting with the YouTube API.

```
<com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView
    android:id="@+id/youtube_player_view"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:layout_marginBottom="20dp"
    android:adjustViewBounds="true" />
```

- **ConstraintLayout**
  The ConstraintLayout is used as the root layout in the XML file, making it easier to arrange the YouTubePlayerView widget and ensuring it adjusts to different screen sizes.

Permissions:

- **INTERNET Permission**
  The app requires internet access to fetch the video from YouTube. This is achieved by adding the following permission to the AndroidManifest.xml file:

```
<uses-permission android:name="android.permission.INTERNET"/>
```

Dependencies:

- **YouTube Player API**

  The YouTube player functionality is added using the external library provided by **Pierfrancesco Soffritti's Android YouTube Player API**. You need to add this dependency to your app's build.gradle file:

```
dependencies {
    implementation 'com.pierfrancescosoffritti.androidyoutubeplayer:core:12.0.0'
}
```