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Submission Instructions
1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
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GitHub Username: mevipul

Reel

Description

The idea is to build a layer on top of Youtube. Youtube is amazing but there is so much noise out there, hence discovery for new and top rated content is a problem many times.
This app provides a curated list of short youtube videos on some topics which you just can't afford to miss.

Intended User

For everybody who is a video junky and loves consuming video content. Be it grandma or a kid.
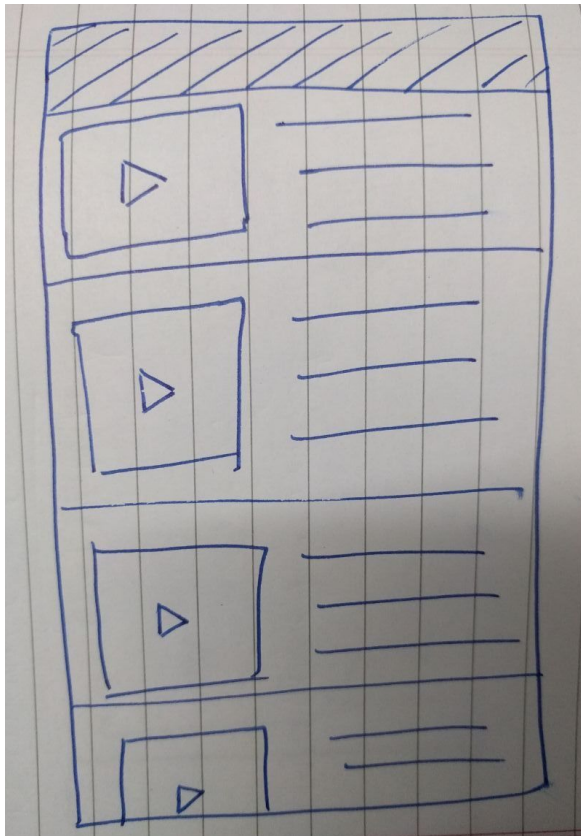
Features

List the main features of your app. For example:
- Show list of videos from youtube
- Play videos within the app

User Interface Mocks

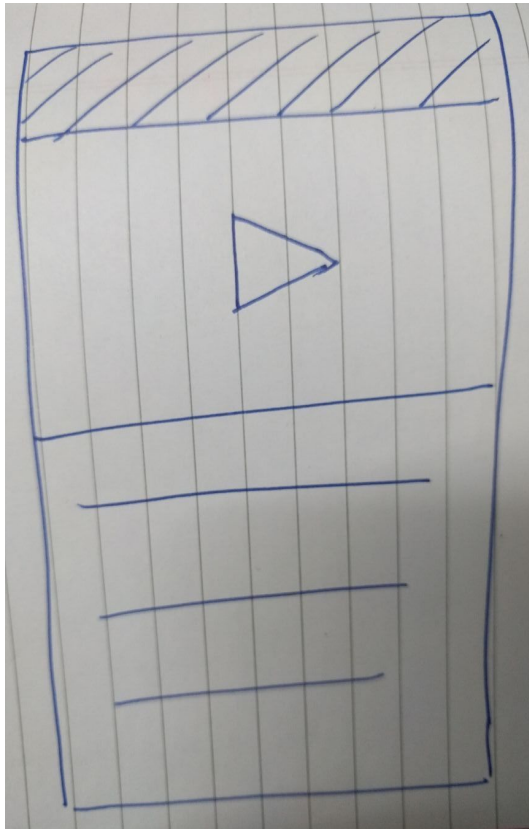These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

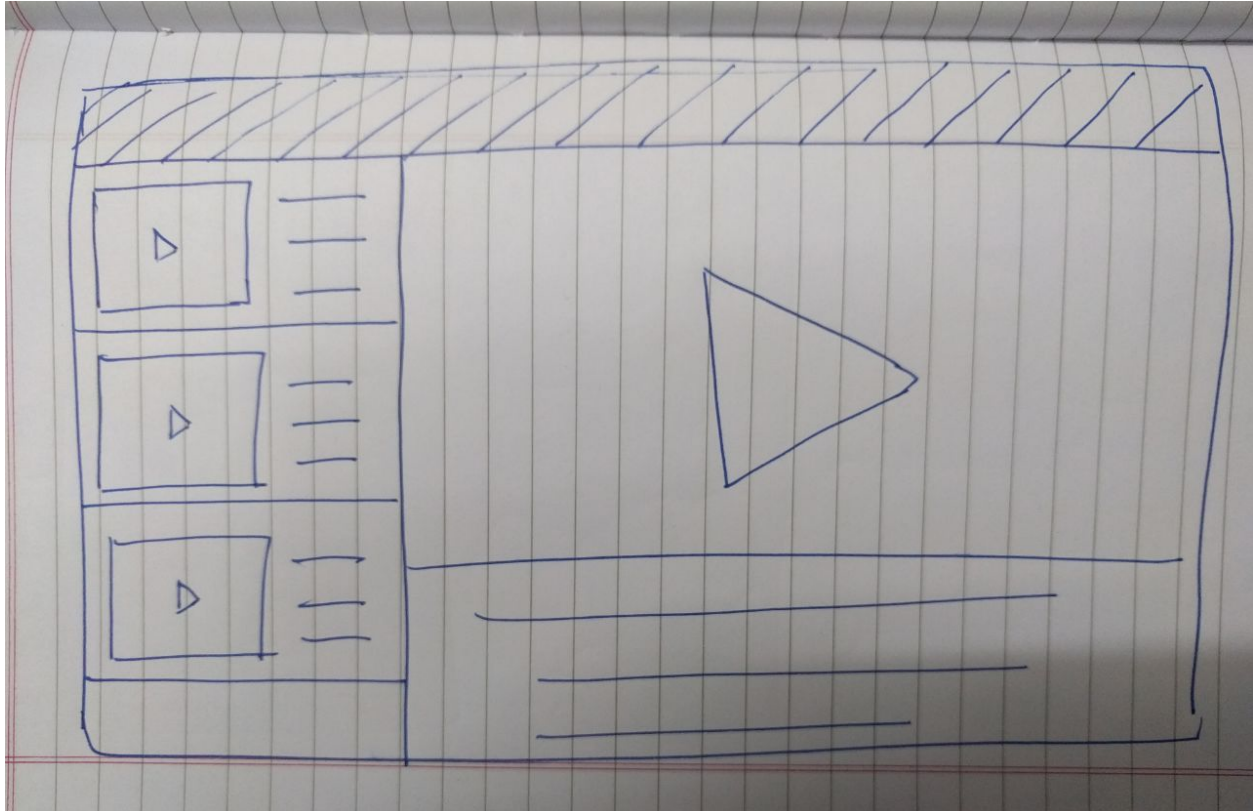**Screen 1**

This Activity will show list of curated videos fetched from Youtube with some meta-data like title, description, likes etc.
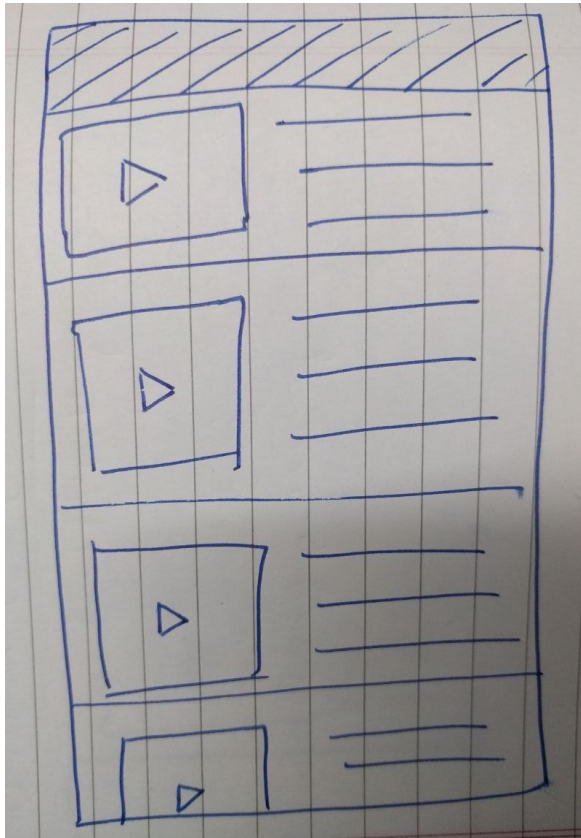
Screen 2 - Detail Activity

When user clicks on any video on Listing Activity, it opens the above activity(Detail Activity) and the play the video in Youtube Player. Also shows the video metadata below the video. User can also favourite any video here.

Screen 3 - Tablet UI

This is what screen will look like on a Tablet. Having Listing and Detail view in one, utilising the space.

Screen 4 - Favorite Activity

Above Screen will show all the activities user has favorited, will get this list from local database using Content Providers

Key Considerations

How will your app handle data persistence?

Nothing much for data persistence, some trivial information will be saved in Shared Preference

Describe any corner cases in the UX.

If user hits back button while playing a video, the list of videos should not scroll to the top.

Describe any libraries you'll be using and share your reasoning for including them.

Retrofit, Youtube Android Player API, Fresco

Describe how you will implement Google Play Services.

I will be using Google Play Services for Analytics and Identity.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

Write out the steps you will take to setup and/or configure this project. See previous implementation guides for an example.

You may want to list the subtasks. For example:
- Add Retrofit
- Setup utility for retrofit
- Add Youtube Api
- Add fresco library
- Add Util for logs
- Add a Util for all UI related things

Task 2 : Create BaseActivity and BaseFragment
All the Activities and Fragments will extend the above respectively. These will contain the code common to all activities/fragments.

Task 3: Add Splash Activity
This activity will check internet connection when user opens the app and prompts if connection is not available.

Task 4: Implement UI for Each Activity and Fragment

List the subtasks. For example:
- Build UI for MainActivity
- Build UI for Detail

Task 5: Retrieve Data from Youtube

Describe the next task. List the subtasks. For example:
- Fetch metadata for list of videos from youtube
- Parse the required data - videoId, Description etc

Task 6: Wire Listing and Detail page

- Detail page should be able to play the video clicked on Listing Activity.
- User should be able to mark any video as favourite here. Favourites will be saved locally in a database.

Task 7 : Create favourite activity
- This activity just display a list of all the favorited videos
- This list is retrieved from local database using Content providers.

Task 8 : Handling Edge cases

- Handle 'No internet' case whenever switch activities.

Task 9 : Create App Widget
- Widget will display list of videos

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