GitHub Username: ajaybhatt17

Videodefy

Description

Videodefy is app that let you create reverse video of clip for fun. You can try different type of video and reverse them to create awesome funny videos.

Few Ideas -
1. throwing of frisbee
2. running
3. cutting of banana
4. skating

Try it and create funny videos, you can share the results over Facebook, Gmail etc.

Intended User

User that love to create and share funny and interesting videos

Features

- Convert video to backwards through recording video or gallery
- Let user save those backwards video
- Share video via fb, gmail etc.
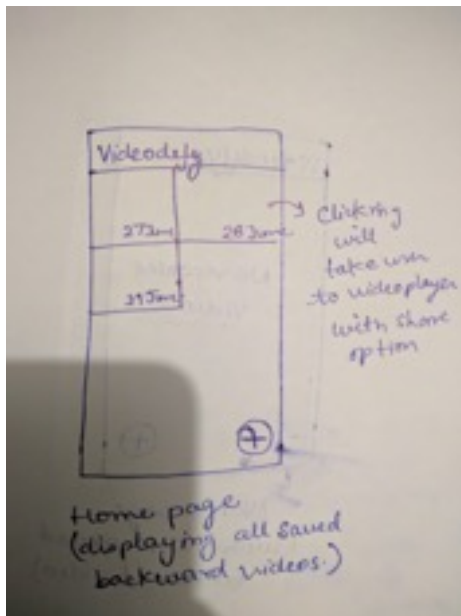- Widget showing top played backward video

User Interface Mocks

Splash Screen

Splash screen for smooth entrance in app

Home Page with list of videos

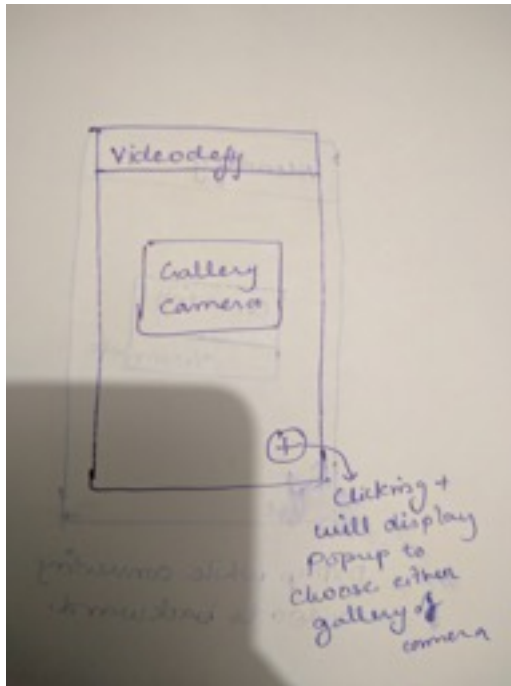Home page showing list of stored backward videos entries from content provider and on clicking item it will direct you to default video player. Add button for processing a new video
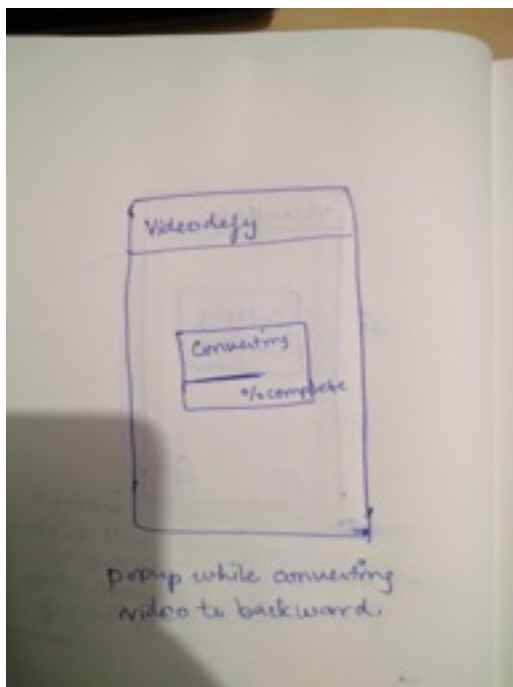
Home Page with no videos

Nothing to explain here

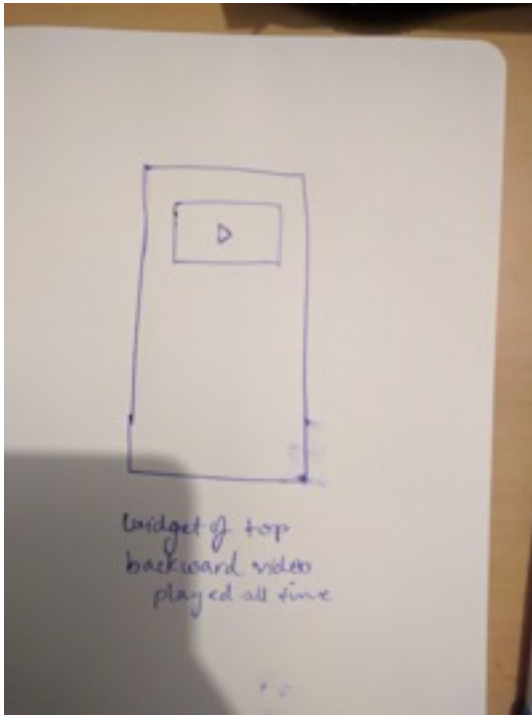## Home Page with Choose Popup

On pressing add button, show popup to user to let him select b/w gallery or camera

Home Page with Conversion Progress Popup

Show progress of conversion of video into backward video in popup

Widget showing top played backward videos

Key Considerations

How will your app handle data persistence?

App will store list of saved backward video location in content provider

Describe any corner cases in the UX.

Failing to convert video, Doesn't support conversion of particular format of video

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

For example, Picasso or Glide to handle the loading and caching of images.
Glide - to handle loading of images
Schematic - to generate content provider
android-ffmpeg - to convert video to frames
Jcodec - to mixing video from frames

Describe how you will implement Google Play Services.

Play service for push notification registration

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries
- Listing of activities, services, receivers in android manifest

Task 2: Implement UI for Each Activity and Fragment

- Build UI for SplashScreen
- Build UI for Home Page

Task 3: Implementing Google Play Services for push-notification registration

- Gcm registration call on home page using broadcast receiver and service.

Task 4: Select a video or record it

- Show user to select option from gallery or camera
- Select video from gallery and give video address in callback
- On selecting camera, open camera app and let user record video and get video address in callback

Task 5: Convert Video to Backward video

- Using video address, Convert video to frames
- Reverse the order of frames and create video using frames with Media Muxer API

Task 6: Save converted video to disk and there details in content provider

- Converting popup to display progress
- After converting save video to disk (in case of >6.0 API take runtime permission to save file)

Task 7: Handle Error Cases
- Failing to convert video
- Doesn't support conversion of particular format of video

Task 8: Widget showing top played backward video