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## Videodefny

### Description

Videodefny 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.

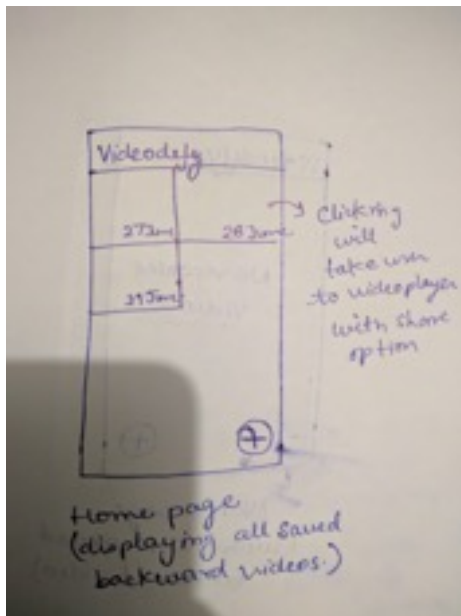
## User Interface Mocks

### Splash Screen



Splash screen for smooth entrance in app

## Home Page with list of videos



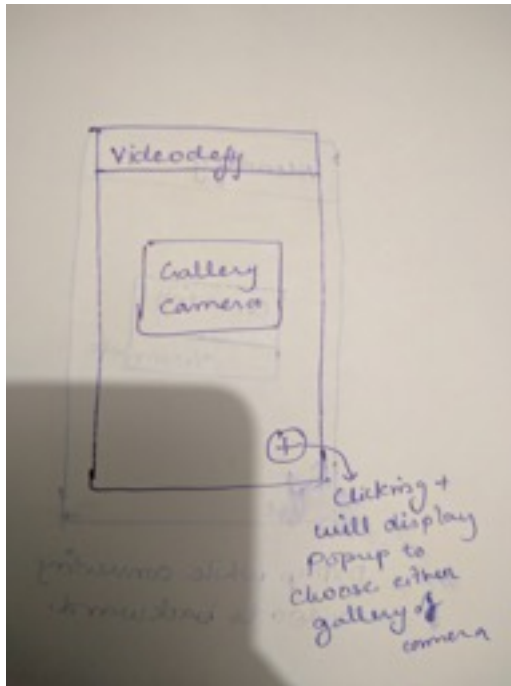
Home page showing list of stored backward videos entries from content provider and on clicking item it will direct you to default video player. Add button for processing a new video

## Home Page with no videos



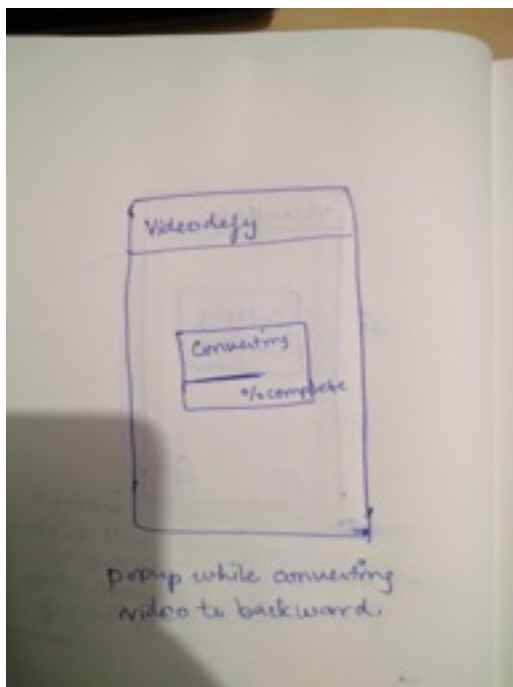
Nothing to explain here

## 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

## 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