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## Canvas Vision

### Description

Make the most of your display with beautiful wallpapers (provided by:- Pixabay) . Sift through hundreds of wallpaper and download them on a single click. It's easy to use, with stunning UI. Set your wallpaper with a single button click. The Explore section provides several categories to choose the desired wallpaper or you can choose from Editor's choice.

### Intended User

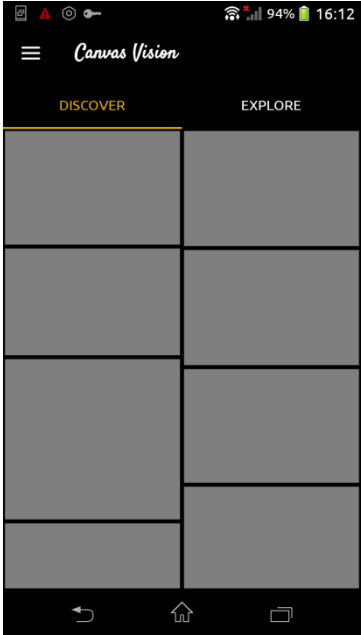
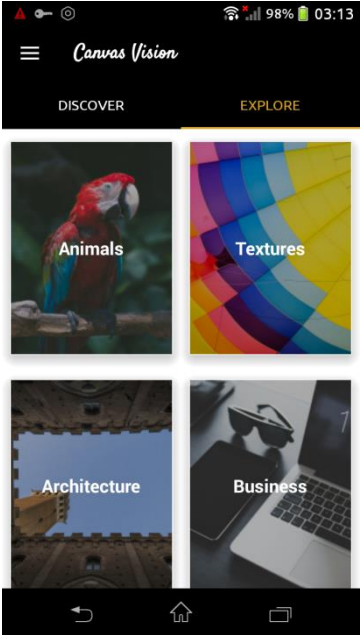
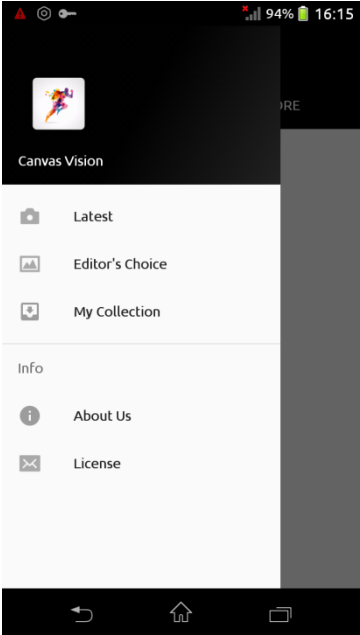
The app is intended for anyone who wants to give their mobile or tablet screens a better look.


## Features

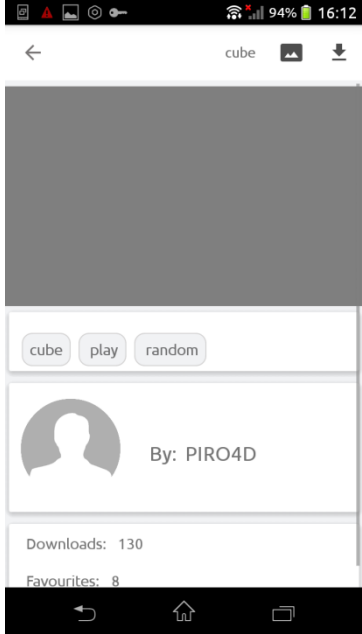
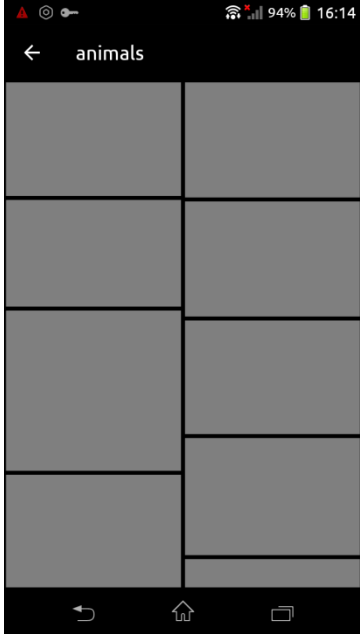
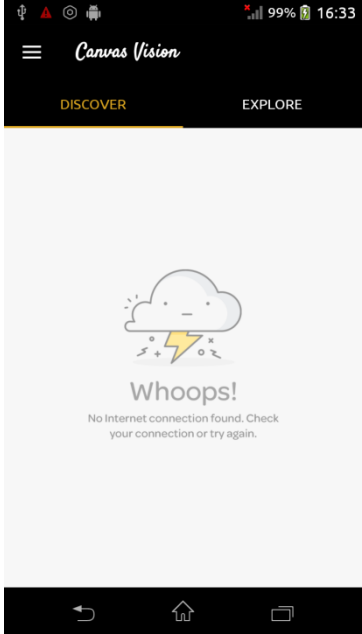
Main features of app:

- Different section to choose wallpaper from
  - Discover
  - Latest
  - Editor's choice
  - Explore (Different Categories)
- Opens Details for each wallpaper
- Download wallpaper on a single button click
- Set wallpaper on a single button click
- My Collection displays your downloaded photos online and offline
- Widget on your home screen shows the downloaded photos online and offline

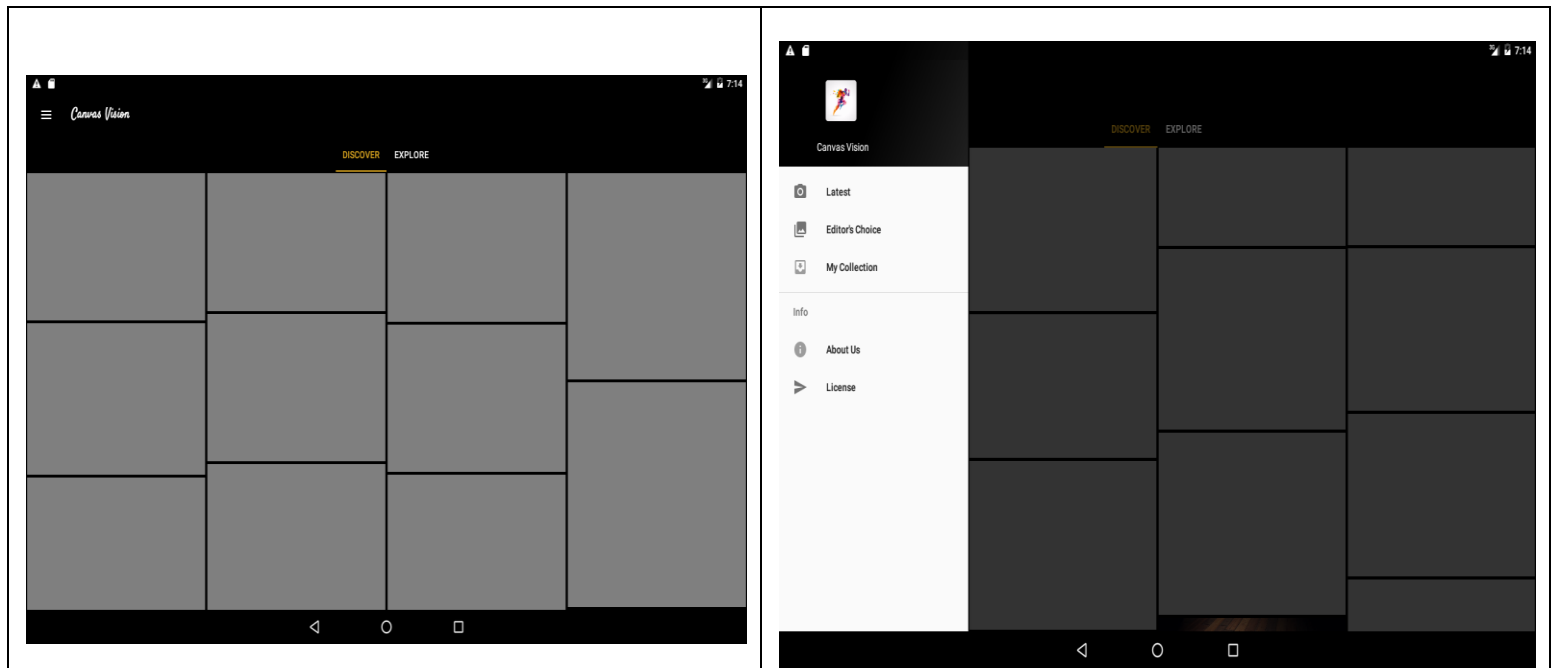
## User Interface Mocks

| Screen 1   | Screen 2  | Screen 3   |
|--|---|--|
|  |  |  |
| Discover Fragment  | Explore Fragment  | Navigation Drawer  |

| Screen 4  |
|---|
|  |
| Widget  |

| Screen 5   | Screen 6  | Screen 7   |
|--|---|--|
|  |  |  |
| Detail Activity  | Select Activity (on Choosing a category)  | No internet  |

## Tablet layout



## Key Considerations

### How will your app handle data persistence?

To store the data locally, will implement Content provider. Downloaded images will be stored in Internal Storage.

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

|                           |  |
|---------------------------|--|
| Picasso :-                | to handle the loading and caching of images.           |
| Retrofit2 :-              | for network calls                                      |
| SimpleSQLProvider :-      | to create a sql based ContentProvider using annotation |
| Picasso Transformation :- | image transformation for Picasso                       |
| Google Play Services :-   | for Analytics and Ad                                   |

### Describe how you will implement Google Play Services.

Describe which Google Play Services you will use and how .

- Google Ad service for displaying banner ad at the bottom of app

- Google Analytics for tracking screen views, exceptions and active users.

## Next Steps: Required Tasks

### Task 1: Project Setup

- Create a new project with Navigation Drawer Activity
- Configure Libraries
- Design the flow of project

### Task 2: Implement UI for Each Activity and Fragment

- Build UI for Main Activity
- Add items to Navigation Drawer
- Add View Pager on Main Activity with tabs "Discover" and "Explore"
- Build UI for Discover Fragment
- Build UI for Explore Fragment
- Build UI for Details Activity
- Build UI for Select Activity

### Task 3: Implement Data Models ,Content Provider and Loader

- Create data model class for Wallpaper Hits
- Setup SQLite database for Wallpaper Hits
- Implement Content Provider for accessing Downloaded Wallpapers
- Implement CursorLoader to move stored data to views in Collection Activity

### Task 4: Populating Activities and Fragments

- Create Adapters
- Fetch data from Pixabay API (Since short duration, on-demand requests is to be performed, AsyncTask shall be used )
- Set results to Adapter

### Task 5 Google Play Services

- Show banner ad using Google Ad Services
- Add Google Analytics to track screen views, exceptions and active users.

### **Task 6: Other**

- Add StackWidget to display download files
- Design for Tablets
- Enable Layout mirroring
- Adding Content Description

### **Task 7: Review Rubric and Submit project**