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# Monolith

## Description

Cosmos is for everyone! Myapp is simple way to get, read and share amazing moments of the cosmos.  You can get easy access to images from NASA and daily news update from the portal for space and science which is provided by Bing News.

## Intended User

This app is for everyone how love to explore and read about the cosmos.

## Features

Main features are -

- Easy to use
- Get daily amazing images from NASA

- User can save and share images
- Get daily Space news updates from Bing News.
- User can read and share Articles.

## User Interface Mocks

### Screen 1


This will be the main activity containing two tabs. The first will be gallery for images from NASA.

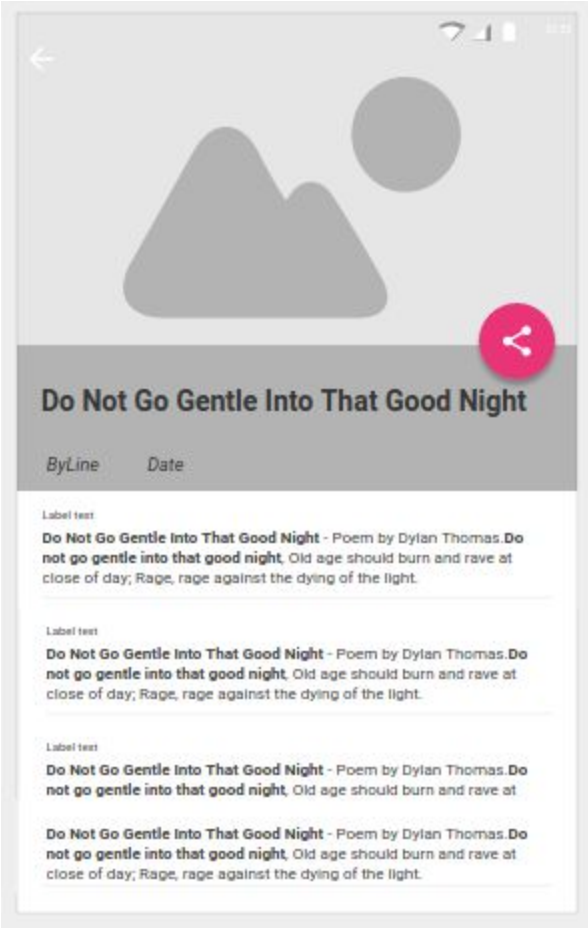
## Screen 2

Clicking any image in gallery will launch a detail screen containing image in fullscreen. Here user can either save image or share.

## Screen 3


This will be the second tab containing list of article or news provided by Bing News.

### Screen 4




Clicking any news article on Article tab will launch a detail screen where user can read more about the same article and share the same.

## Key Considerations

### How will your app handle data persistence?

For data persistence -

- AsyncTask for article list
- Content Provider for gallery
- Loader to load saved images

**Describe any corner cases in the UX.**

On back press, fragment can be loaded again due to transaction history. I'll also use responsive material design libraries to enhance the User experience.

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

- Android-floating-action-button and GooeyMenu for FAB button
- Picasso/Glide to load saved images
- Valley for network calls and caching of images
- Design support library for material design

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

Google Play Services -

- Admobs to display ads.
- Analytics to keep track of user statistics.

# Next Steps: Required Tasks

## Task 1: Project Setup

- Create new project
- Adjust minSdk version
- Add required dependencies
- Configure libraries
- Add models for data

## Task 2: Implement UI for First tab

- Build UI for MainActivity
- Build UI for two tabs
- Build first tab and test it with sample data
- Add detail activity for image view

## Task 3: Implement UI for second tab

- Build second tab for news article
- Test second tab with sample data
- Add detail activity for article list

## Task 4: Implement task related to backend

- Add volley for network calls
- Fetch real data for both gallery and news article
- Populate views with real data

## Task 5: Implement secondary features

Subtask 1 -

- Add AsyncTask
- Add offline feature using ContentProvider

User can mark image as favorite (or download).

Subtask 2 -

- Add Loader to load images

User can load saved images.

Subtask 3 -

- Add share feature for both gallery and article

## Task 6: Make Application compatible

- Make Application compatible with tablets
- Check string resources
- Check left to right alignment

## Task 7 : Make Application Material Design

- Implement Material Design elements
- Implement transition animations

- Enhance the UI/UX using extra libraries if required

### Task 8 : Google Play services

- Add google play services like Admob and Analytics

### Task 9 : Get Feedback

- Get feedback from forum mentors and forum mates
- Implement suggested feedback
- Publish on Google Play Store