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Mexapod(Mars Exploration x Astronomy picture of the day)

Description

Astonishing Mars Exploration Photos and APOD(Astronomy Picture of the Day-Nasa) at your fingertips.

Unravel the Universe!
Each day a different image or photograph of our fascinating universe is featured, along with a brief explanation written by a professional astronomer.
Swiftly Browse Images from humongous gallery of Mars Exploration program and Astronomy pictures from Nasa.
Mexapod gets the Photos of Mars from the NASA's mars rover api and Astronomy picture of the day from NASA's APOD service.
APOD is one of the most popular websites at NASA In fact, this website is one of the most popular websites across all federal agencies.

Intended User

Developers, Educators, Students and Citizen scientists

Features

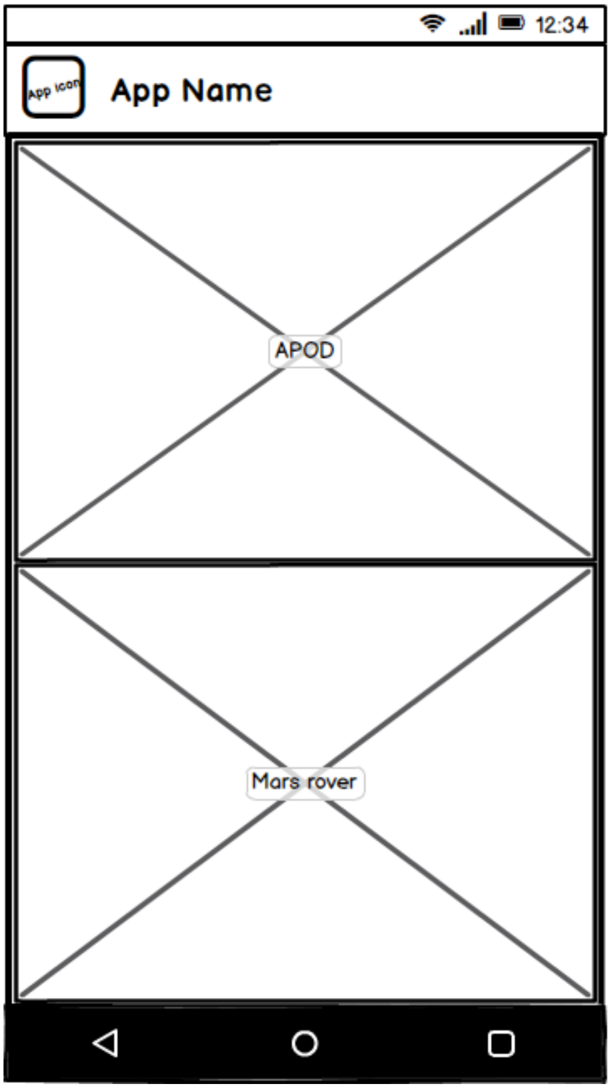
->New Astronomy photo everyday

->High Res APOD
->View a gallery of over 10000 APOD images
->Get over 400,000 photos of Mars provided by NASA's Curiosity, Opportunity, and Spirit rovers on Mars
->Set them as wallpaper
->Favourite and save Images
->Share photos with various social networks
->Material Design

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

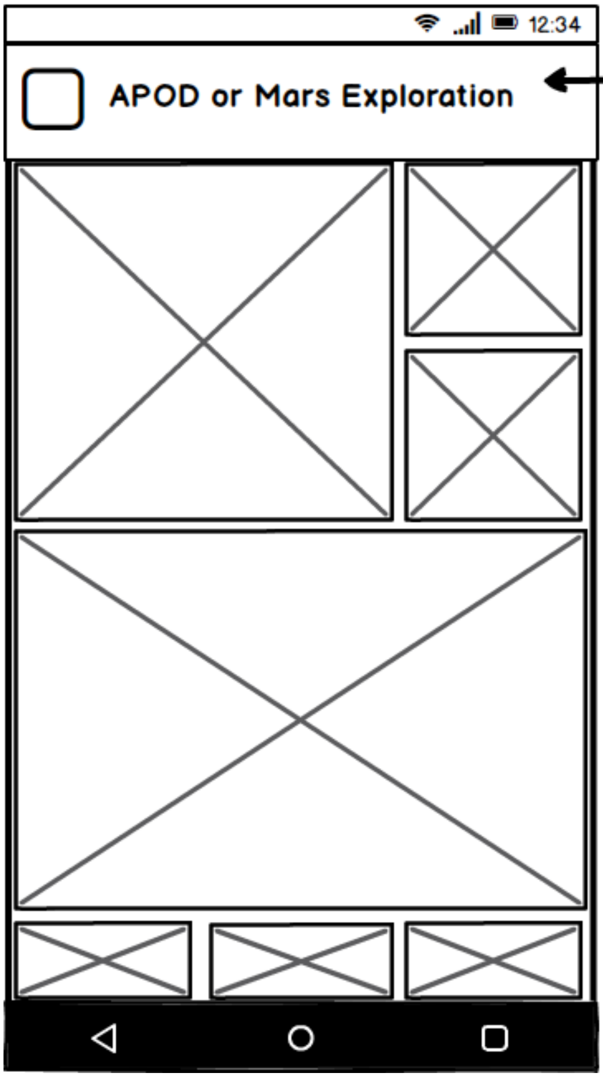
Main Activity



Main Activity where the user will be able to select one of the two categories to proceed ahead.

Screen 2

List Activity

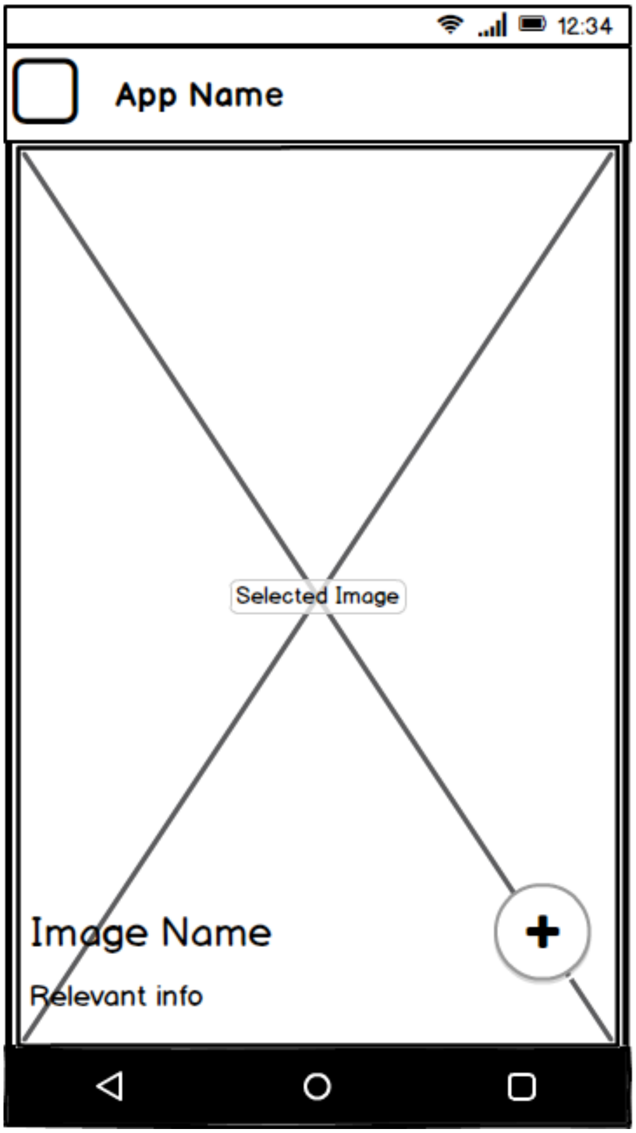


AppBar (Collapsing Toolbar)

ListFragment, depends on the category which the user selects in the main activity. User will be able to select and view high res images and much more. Staggered Layout Manager will be used therefore it will

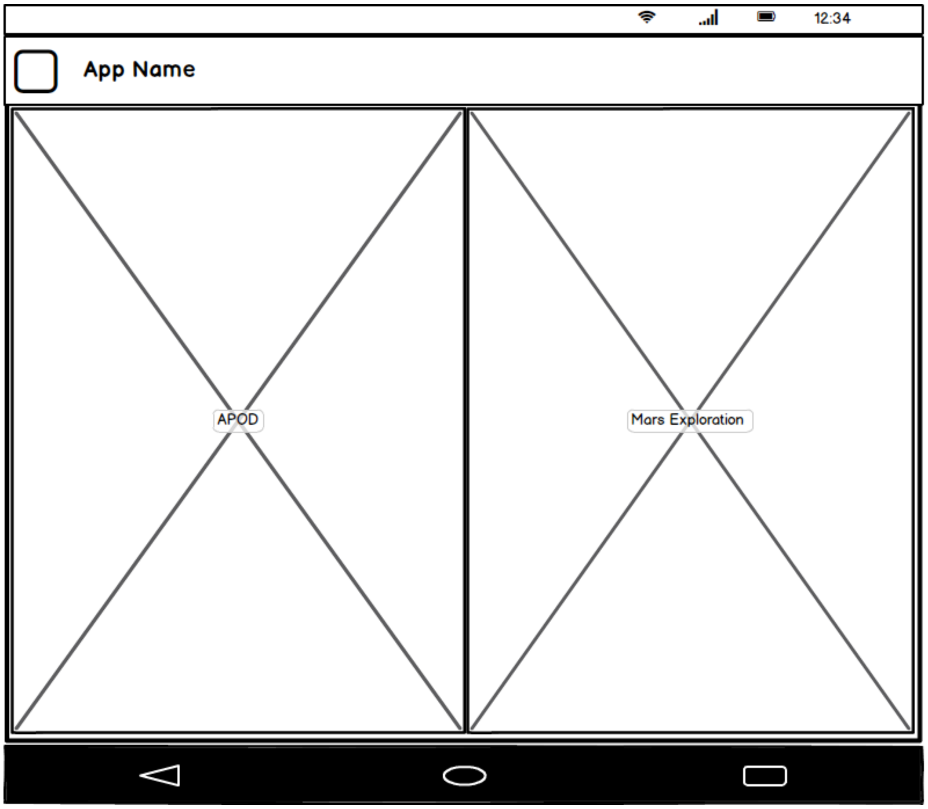
Screen 3

selectedimg fragment



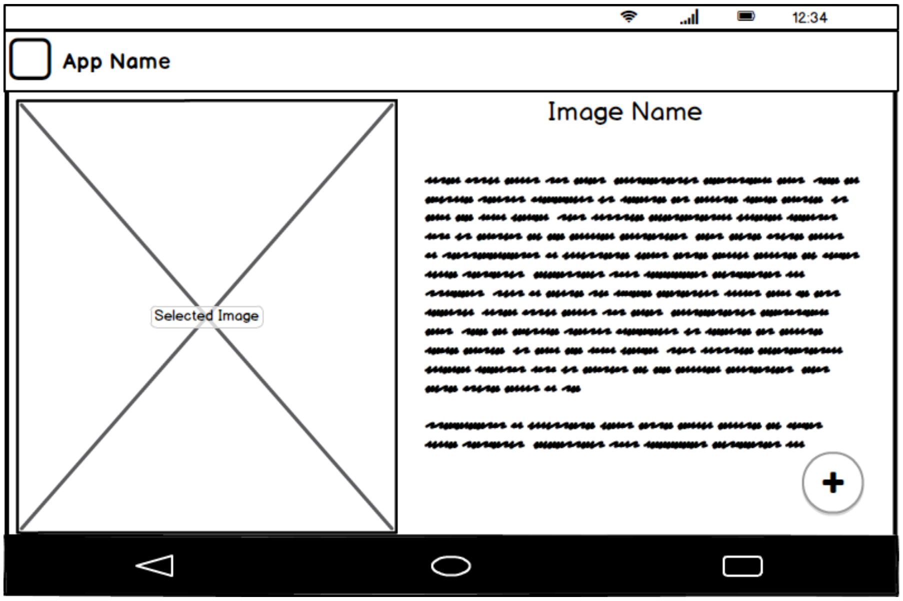
Selected picture details and explanation etc. A Floating action button which on pressing pops different fabs each with different function.

Screen 4



Tablet View of Main Activity

Screen 5



Tablet View of selectedimg fragment

Other screens might be added as the build process continues.

Key Considerations-

How will your app handle data persistence?

The Image data will come from Nasa’s api.
Some data will be saved internally using content providers and sqlite.

Describe any corner cases in the UX.

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

->Picasso-For Image caching
->Retrofit-Getting data from the API
->Design Support Library

Next Steps: Required Tasks

Task 1: Project Setup

->Configure base project
->Add Library Dependencies
->Put the required colors in colors.xml
->Create different packages for sorting java classes accordingly.

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

->**Build the UI for Main Activity**
->Build UI for List Activity
->Build UI for Detail Fragment

Task 3: **Backend Part**

Describe the next task. For example, “Implement Google Play Services,” or “Handle Error Cases,” or “Create Build Variant.”
->**Implement Retrofit to get the data from API.**
->Write AsynctaskLoaders to get the required data for ListFragment.
->Write Sync classes and create object classes for the data.

Task 4: **Write Adapters**

->Write Adapter for List Activity

Task 5: **Detail Fragment**

->Write the classes for the Detail Fragment
->Write the classes required for the floating action button press sub functions press.

Task 6:**Tablet Layout**

->Build Tablet UI for respective Layouts

Task 7: **Saved Instance and res folder mgmt**

->Write savedInstancestate snippet for all the classes
->Put all the strings and colors in strings.xml and colors.xml

Task 8: **Implement Transition effects and animations throught the app**