

Space App

# Spaceopedia

The app name "Spaceopedia" is a combination of two words, "Space" and "Encyclopedia". The word "Space" refers to the vast expanse beyond our planet Earth that includes all celestial bodies, such as stars, planets, galaxies, and more. The word "Encyclopedia" refers to a comprehensive reference work that contains information on various subjects.

Therefore, the name "Spaceopedia" suggests that the app is a comprehensive reference work on space-related topics. The app aims to provide users with daily updates on astronomy and space exploration, including news about space, images of space, and other related information. The app's name emphasizes its role as an informative and educational tool for anyone interested in learning more about space and the universe.

# History

Applications related to space exploration and astronomy have been popular among space enthusiasts for decades. With the advent of smartphones and mobile applications, developers have created many such applications that provide users with news, images, and other information related to space and astronomy. The popularity of such apps suggests that there is a significant interest in space exploration and astronomy among the general public.

My app "Spaceopedia" appears to be one such application that provides users with daily updates on space-related news and information. It specifically features NASA's Astronomy Picture of the Day (APOD) which showcases stunning images and information about the cosmos.

Spaceopedia would provide a way for space enthusiasts to stay up-to-date with the latest discoveries and events in space and to learn more about the universe.

After completing the APP2x course, where we developed an application using the NASA API, I gained inspiration to create my own application. I realized that I could expand upon the knowledge and skills gained from the course to build a more advanced and personalized app.

# Audience

## Audience

The audience for the app are individuals who are interested in space exploration, astronomy, and related topics. This can include space enthusiasts, students, educators, scientists, and anyone else who wants to learn more about space and the universe.

The app's content, such as the daily NASA Astronomy Picture of the Day (APOD), news about space, and images of space, suggest that the target audience for this app is individuals who are interested in staying up-to-date with the latest developments in space and astronomy. Additionally, the app may appeal to individuals who are looking for an educational resource on space-related topics.

Overall, the app Spaceopedia is targeted towards anyone who wants to learn more about space and the universe in an engaging and interactive way.

## Not an Audience

The app "Spaceopedia" is primarily designed for individuals who have an interest in space exploration, astronomy, and related topics. Therefore, individuals who do not have an interest in these subjects may not be the target audience for this app.

For example, if someone is not interested in astronomy, space exploration, or related scientific topics, they may not find the app's content engaging or informative. Additionally, the app may not be suitable for very young children who may not yet have the ability to understand complex scientific concepts.

However, it is important to note that interest in space and astronomy can be broad, and people of different ages and backgrounds may find the app useful or interesting. Therefore, it is up to the individual to determine whether the app's content aligns with their interests and needs.

# Competitors

## DailyApod

- This app also shows the astronomical picture of the day from the NASA API. Which is my app's MVP.
- Shows the most liked APODS by the users of the app.

## Cosmic Pic

- This app also shows the astronomical picture of the day from the NASA API. Which is my app's MVP.
- This app shows space news as an additional feature.

## NASA

- This is the official app of NASA.
- It shows a lot of information about space, including it's own APOD, and many more.
- It consists of space news but it only consists of news related to NASA.
- User Interface could be better.

There are many more apps out there that do the same thing. Show that NASA APOD using it's API.

My app Spaceopedia will go beyond that and show much more than just the NASA APOD. It consists of more modules related to space, and astronomy.

# Functionalities

Spaceopedia is an application helps space enthusiasts learn and explore more about space in an interactive manner. This app has multiple modules/ functionalities each functionality is unique and different. Those functionalities are listed below...

## **NASA APOD(Astronomical picture of the day)**

- Shows NASA APOD(Astronomical picture of the day) using NASAS' API.
- Will play videos from the APOD too.

## **Space News**

- Shows latest news related to astronomy and outer space.

## **Space Def**

- Users can enter a word and they will get definition of that word.
- Give definitions of space terminologies.

## **Space Image / Videos**

- Users can enter a word/keyword and the app will show images / videos related to the topic.

## **Space Facts**

- Some Random interesting facts about space.

As this app focuses on the vast realm of space and astronomy, which is a domain of limitless exploration, we have the potential to incorporate additional features as we continue to expand.

# Design

## Number of screens : 12

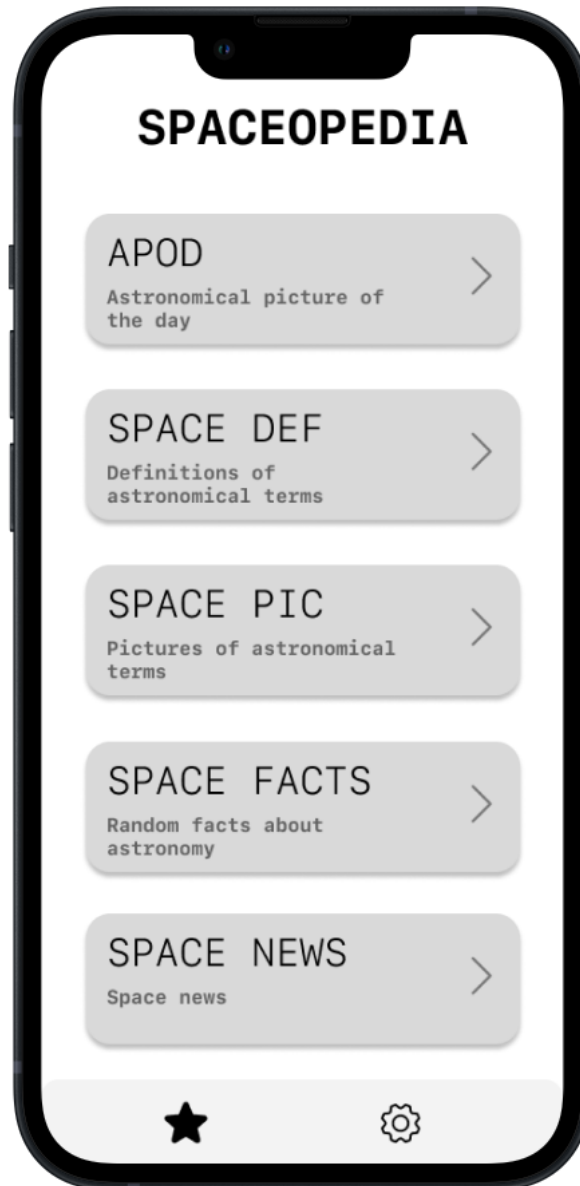
I have shown the screens separately in the following slides.

I have designed the UI in Figma. I used **Figma** as I am quite familiar with it and it's UI.

This is the Link to that file in Figma check it out. [Spaceopedia](#)

This is Prototype of the app UI. This shows what I want the users to experience while navigating through the app. Try it by navigating through the app and going through the functionalities. [Spaceopedia Prototype](#)

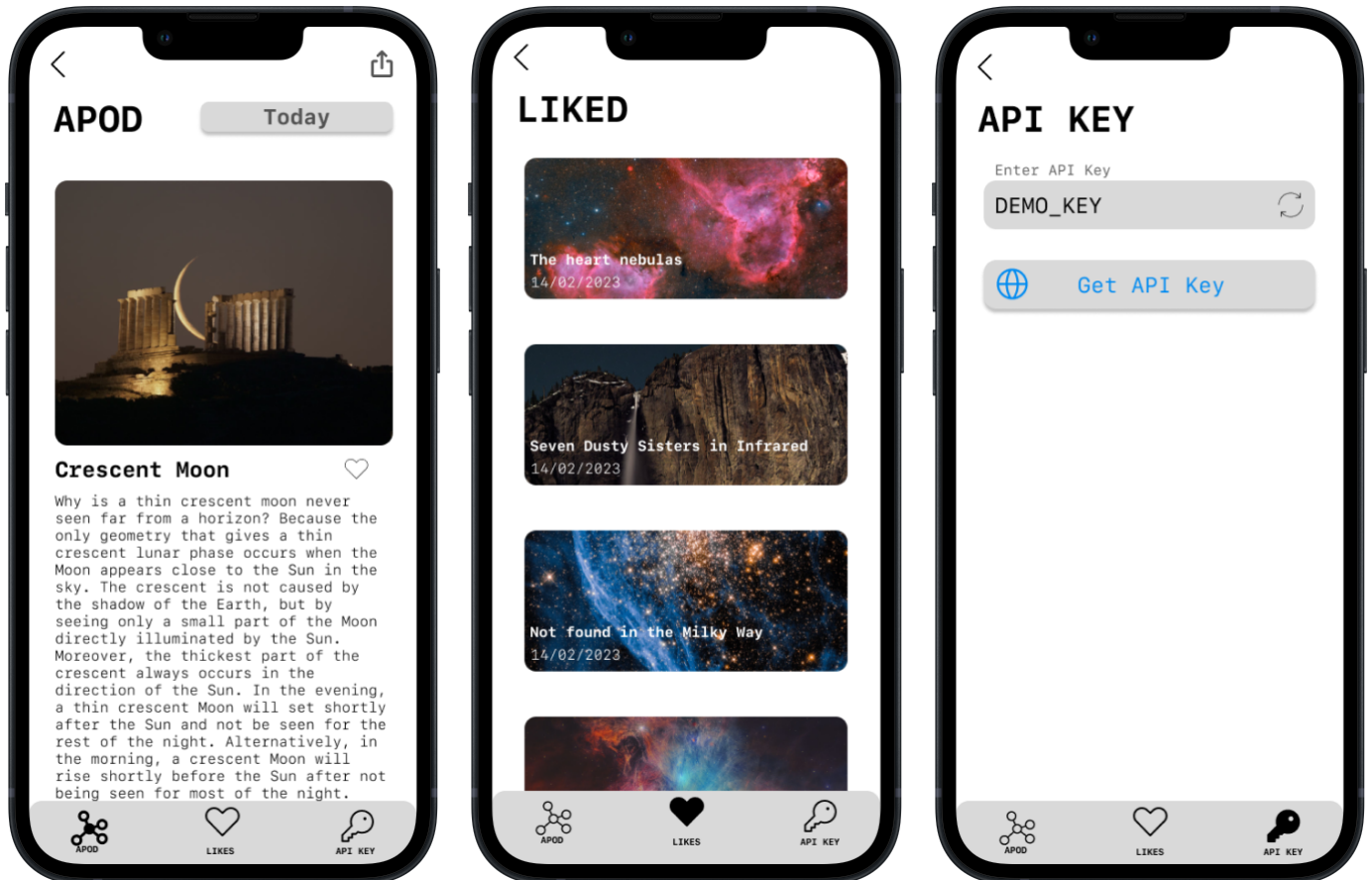
## Home Page



This is the home page of the application. This contains all the functionalities / modules of the application. Each button goes to their own functionality.

Each functionality has been shown below with the navigation.

## APOD Functionality

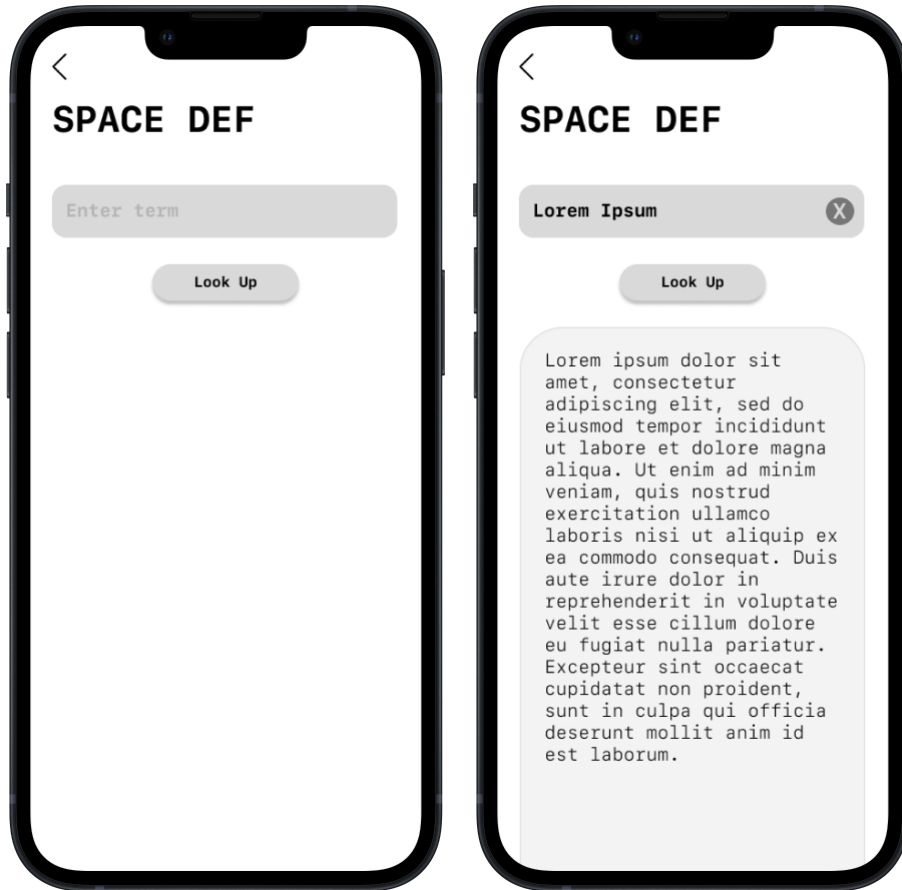


This is the APOD functionality of the application.

This implements an **tab bar** navigation.

- The **first view** shows the APOD and the description of it.
- The **second view** shows the APODs liked by the user.
- The **third view** is where the user can change their API key and get better access to the APODs from NASA.

## Space Def Functionality

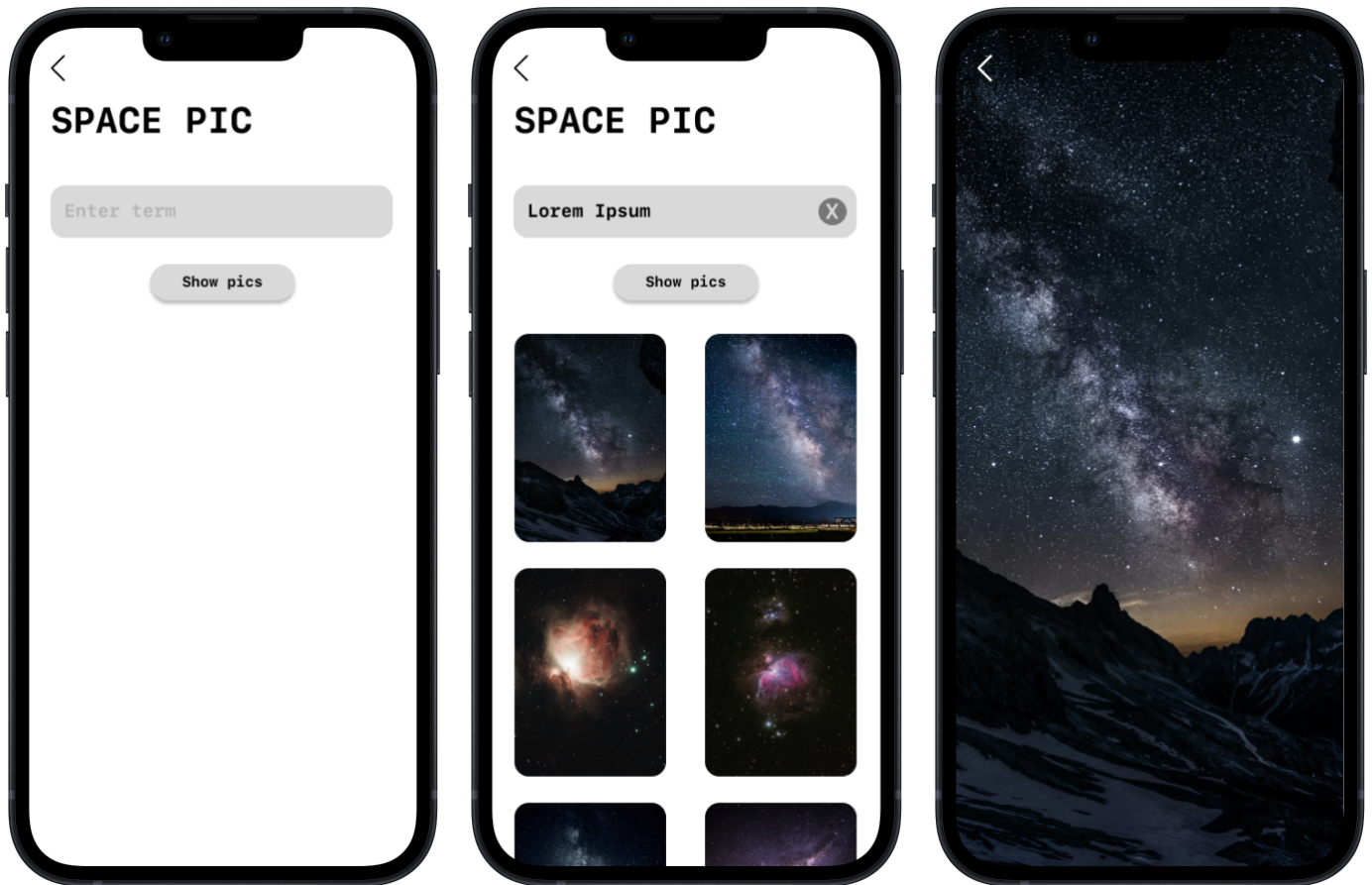


This is the Space Def functionality of the application.

This let's the user enter a word or term, the app will give an definition for the given term.

- After entering the term the user clicks the Look Up button to get the definition.

## Space Pic Functionality

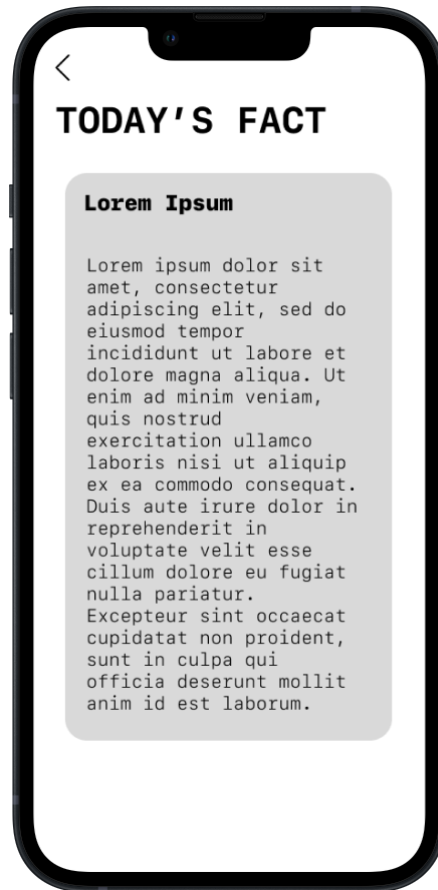


This is the Space Pic functionality of the application.

Here the user can enter a term or a sentence, the app will show images related to the terms entered by the user.

- After entering the term the user clicks the show pics button to get the pictures.
- Clicking on a picture will give you a better presentation of the picture.
- This is a flat navigation flow.

## Space Facts Functionality



This is the Space Fact functionality of the application.

- Each day the app shows a single new fact about astronomy and space.
- These facts change each day.

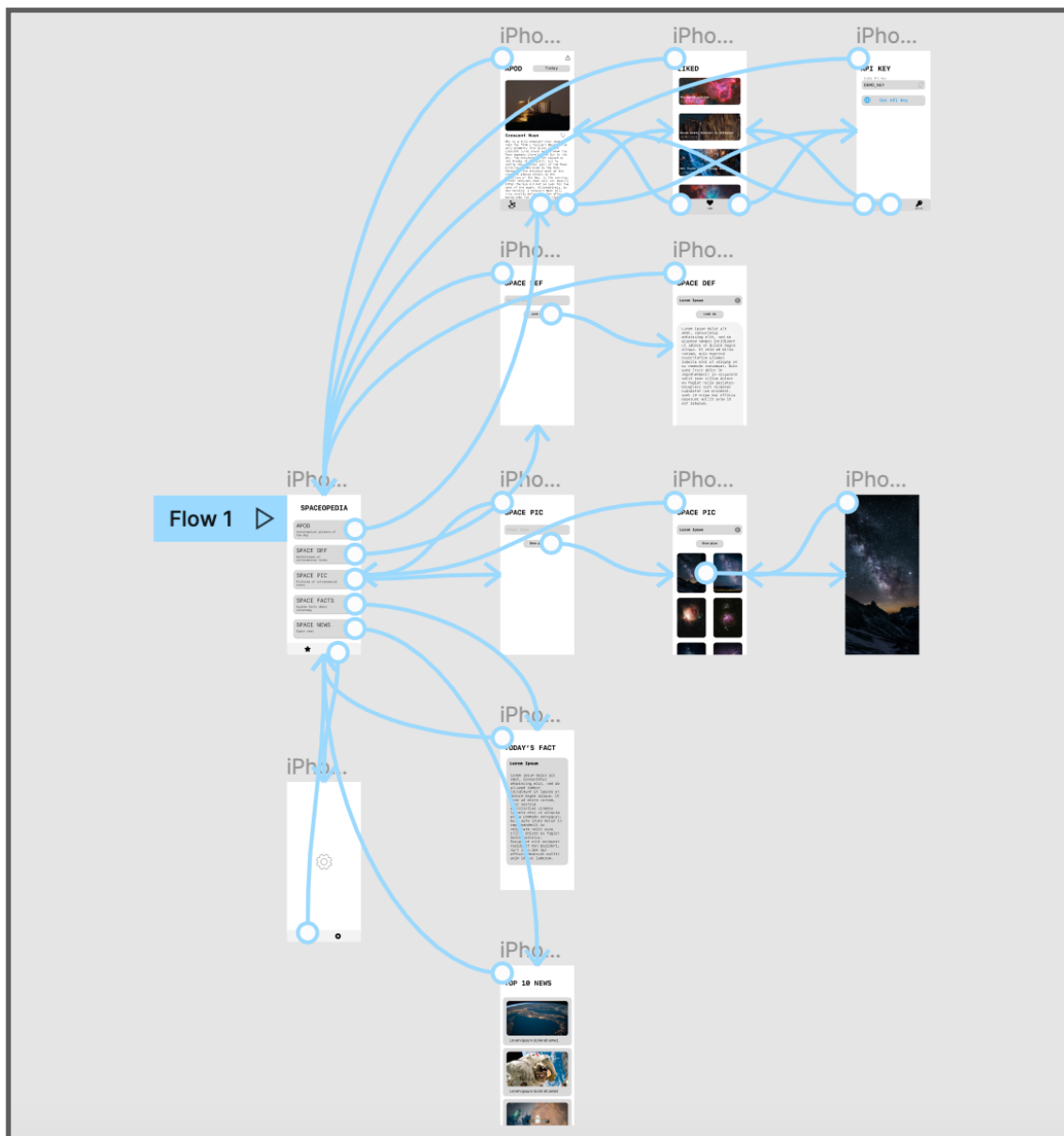
## Space News Functionality



This is the Space News functionality of the application.

- Here the app shows the latest and trending top 10 news articles related to astronomy and outer space.

## Flow between screens



This is the overall flow between the screens of this app.

I know it's not very clear at the first glance especially from his pov.

[Click here](#) to checkout the flow between the screens yourself. I have created this in Figma as I am familiar with that. This will give you an experience of using the real app, to an extent.

## App Icon



The icon represents a human looking at Saturn in the sky. The icon symbolises a boy admiring the beauty of astronomy and outer space.

An Saturn was used instead of moon or any other celestial object as It would be unique and different. It's also something that you can't normally do in real life. It creates a sense of wit and originality.

# Fonts used

**SF Mono [Bold]**

SF Mono [Light]

# Graphics and Images

I have used monochromatic colours as the accent colours of the app.



There will be images used in the app. The images that are retrieved from the API's will be shown in the app.