

iOS POC DOCUMENTATION

NASA-APOD

OBJECTIVE

The Objective of this project is to fetch data from NASA's APOD API, which have a picture for each day and to display the fetched data on the iOS devices.

WHY THIS PROJECT?

This project has the use of basic understanding of the iOS app development. Hence, by doing this project we can apply our knowledge of iOS development and be able to brush up ourselves and improve after getting feedback.

WORKING OF THE PROJECT

- Choose a date from the Date Picker.
- Fetch the image and description of that date from NASA's APOD API.
- Display those data in Image View and Text View.
- Add the date in the list of favourite dates.
- Display all the favourite dates added by the user.
- On clicking on any date from the favourite dates, display image and description of that day.

TECHNICAL DETAILS

API CALL:-

Data in this project has been used from NASA's APOD API.

Link: https://api.nasa.gov/planetary/apod?api_key=q3h8iW3ySud8adUyDG963Qj2Mp7BKISzSPSyYXiu

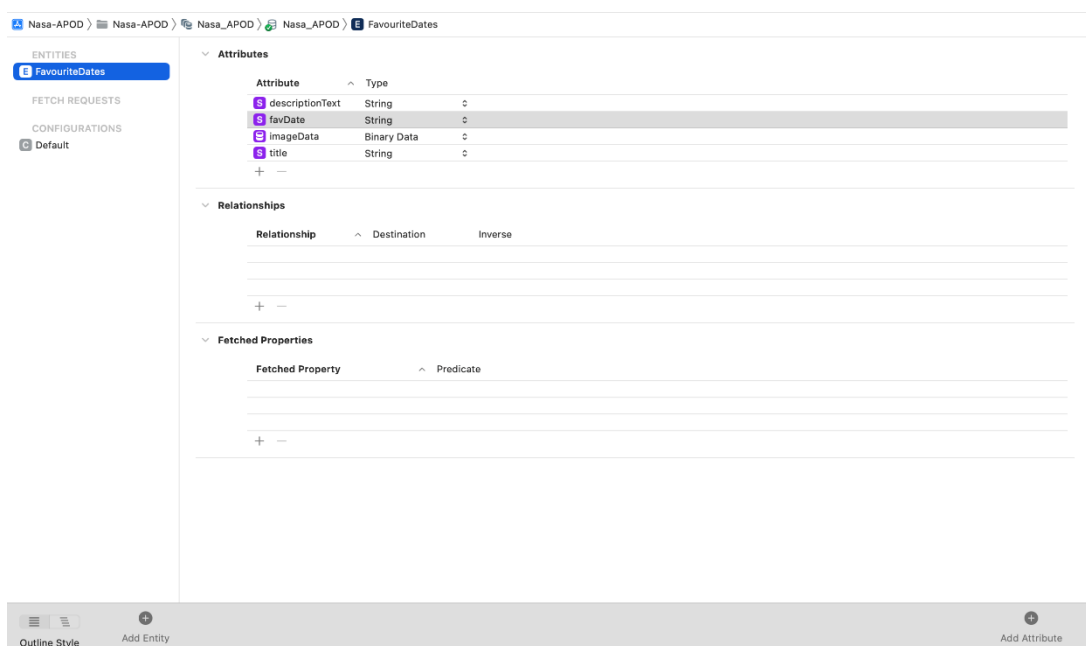
DATA BEING STORED:-

Real Time Data:-

Here, I am fetching Title, Description and Image of the selected date from the API and displaying it on my homepage.

Data Using CoreData:-

For displaying Description and Image on the "DisplayFavouriteViewController", I am using CoreData to store and fetch these information.



Attributes :-

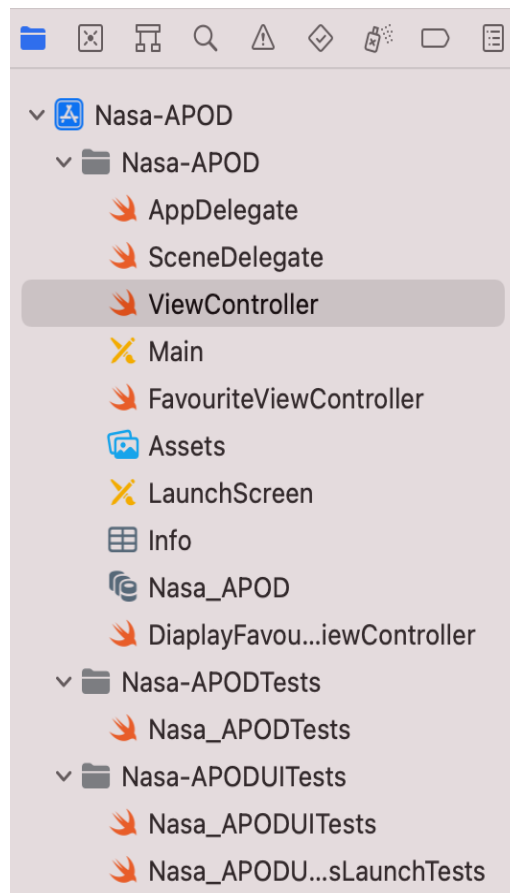
descriptionText - String

favDate - String

imageData – Binary Data

title - String

PROJECT STRUCTURE



VIEW CONTROLLERS

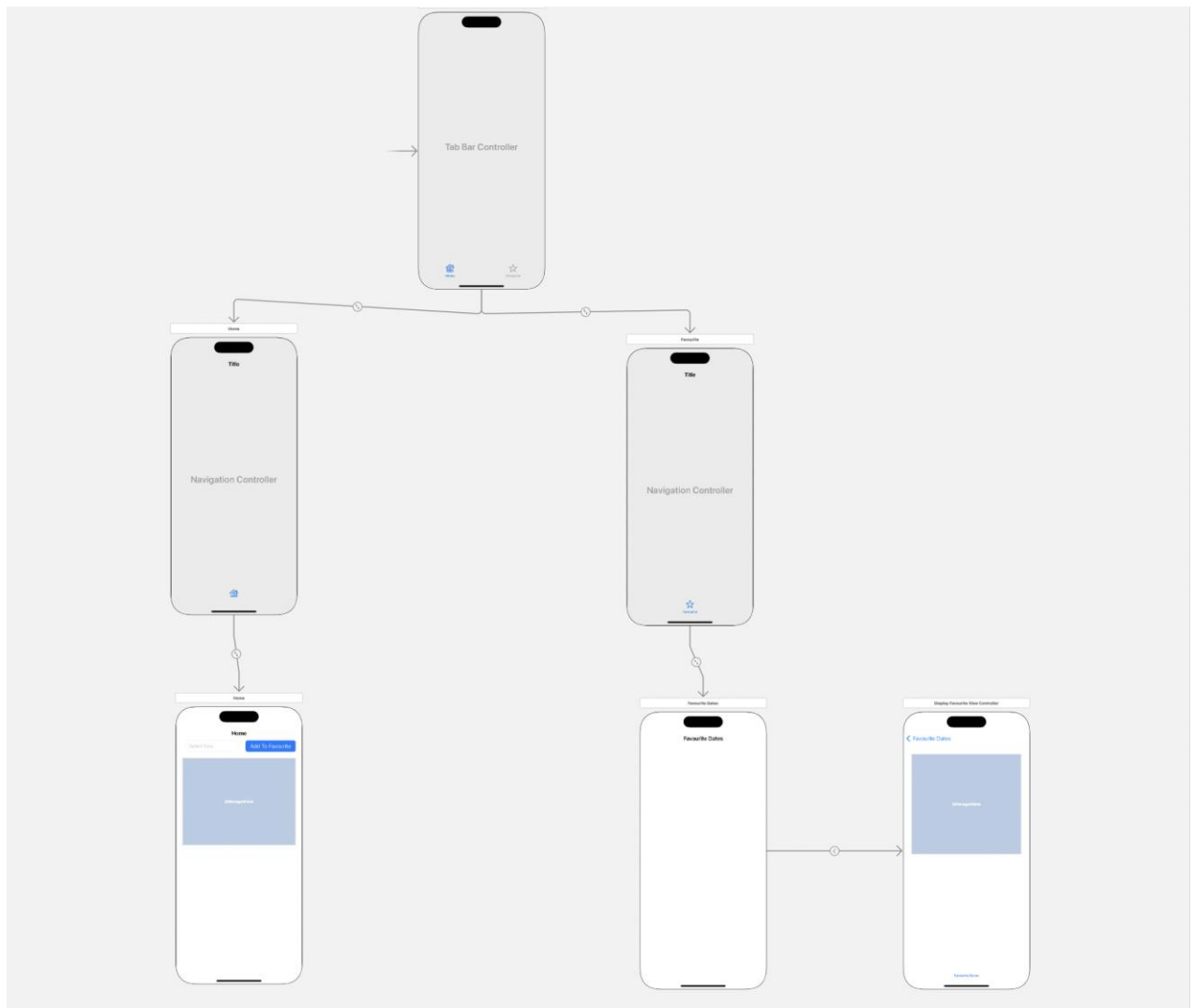
The project has three view controllers.

- ViewController
- FavouriteViewController
- DisplayFavouriteViewController

CORE DATA

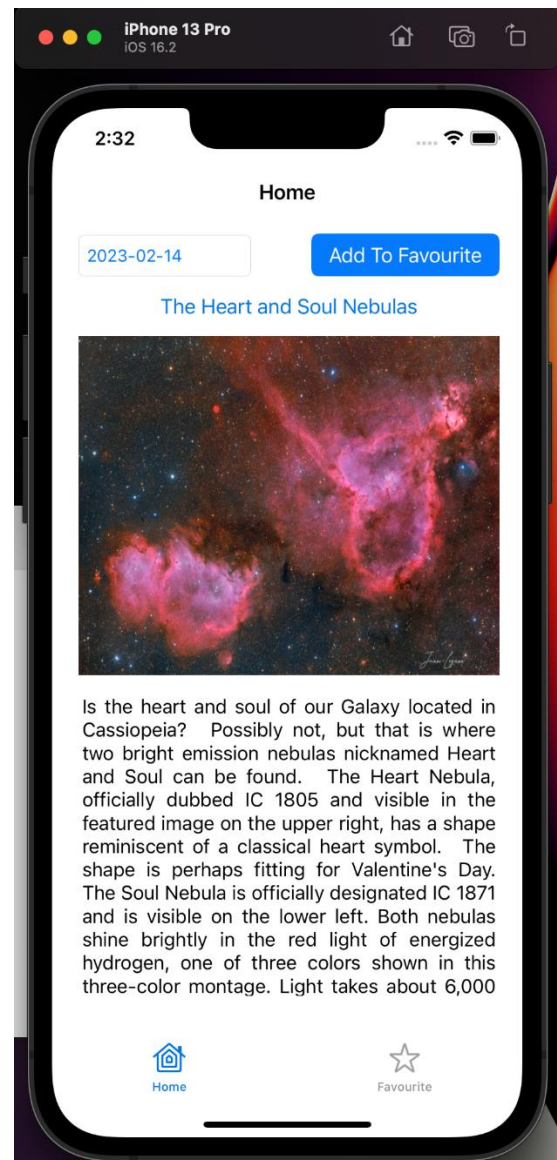
I have used Core Data to store the dates which was added to favourites. For this, I have created an entity with name “favouriteDates” that has attribute named “favDate” which is of type String.

STORYBOARD



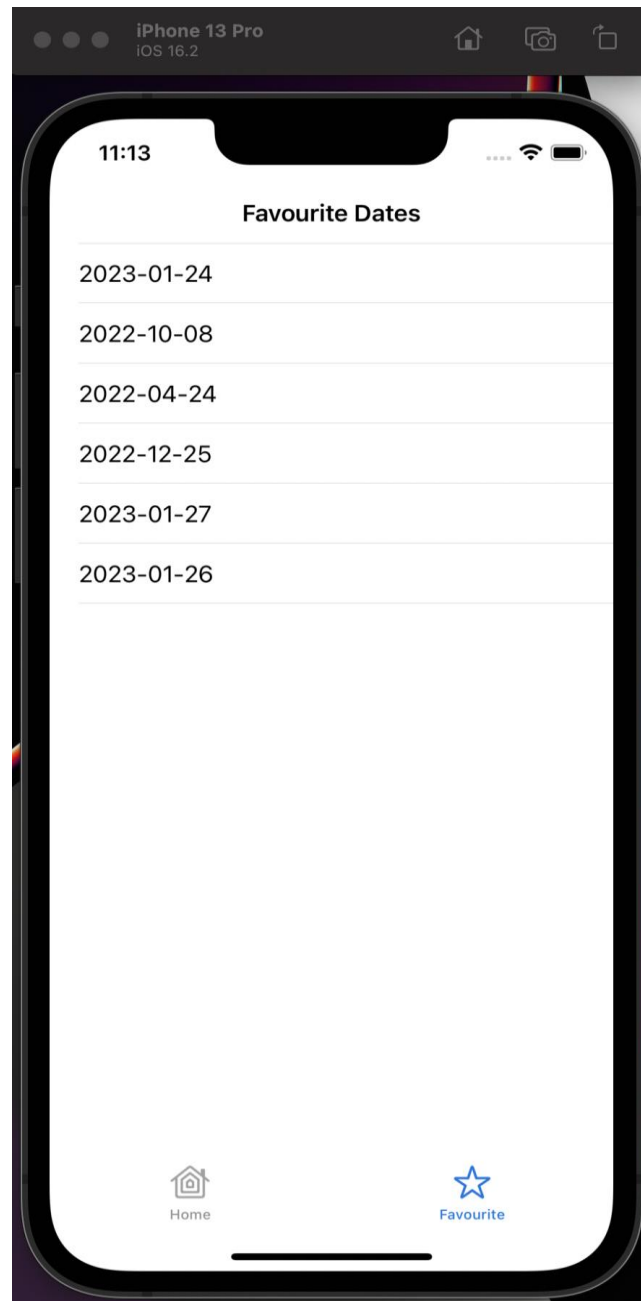
ViewController

The ViewController in my project is responsible for the below screen.



FavouriteViewController

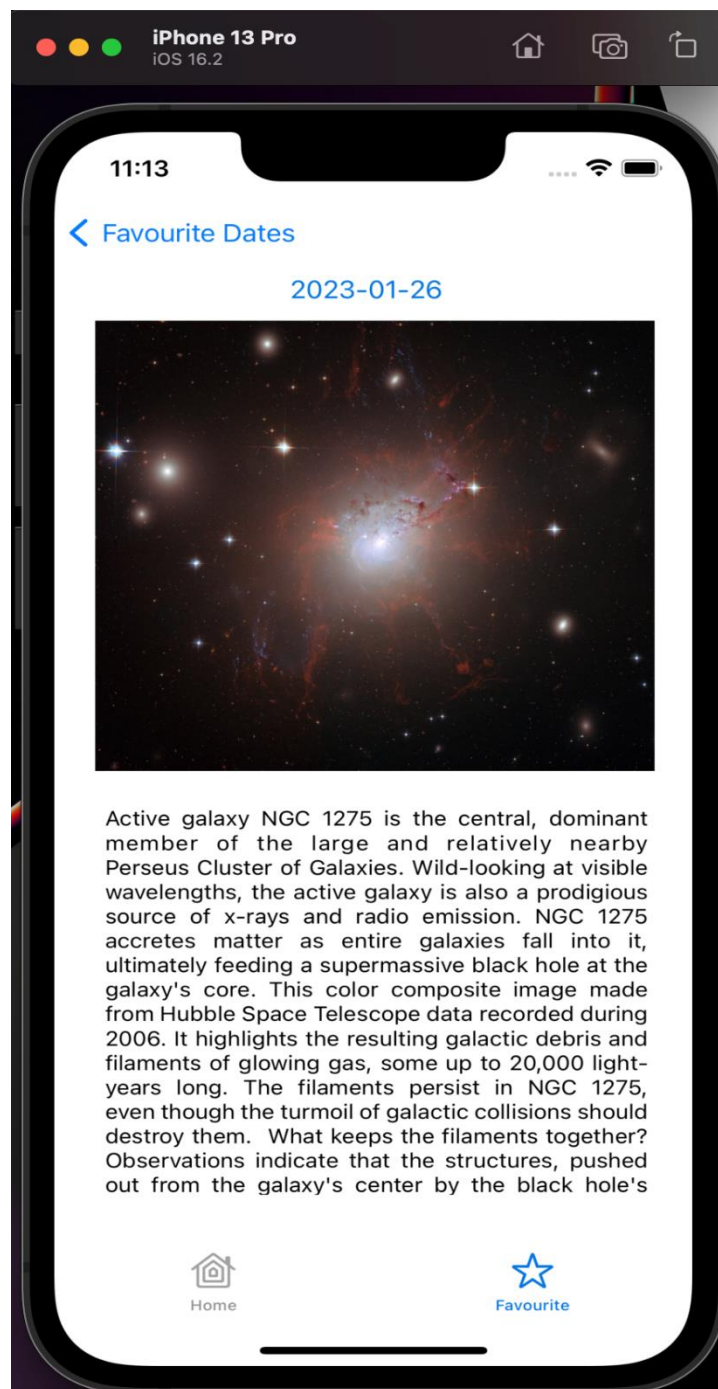
This controller is responsible for below screen. It displays all the favourite dates selected by the users.



DisplayFavouriteViewController

On selecting any date from the list of favourite dates, this controller comes into picture. It displays the date, image and description of the selected date.

It's responsible for the below screen.



Thank you