

Explore Space

A Backend implementation of a system which allows user to interact with space related information which is consistent of a user management system, Astronomy Picture Of the Day feature and the Mars Rover Picture Displayer. This development was done for the Assignment 2 of the Application Frameworks module of the 3rd Year 2nd Semester Software Engineering specialization.

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Includes API's for:

- User Management
- APOD API
- Mars Rover API

User API Collection

This folder includes all the API regarding the user management of the Explore Space. One can register (sign up) users, login users, view all users, update users, delete users and view specific users using the API functions in this folder.

POST User Signup

`http://localhost:8070/auth/add`

Users can register themselves within the system using their information and credentials using this API function.

Body raw (json)

icon

json

```
{  
  "fullName": "Vini Jr.",  
  "email": "vini@gmail.com",  
  "userName": "vinijr",  
  "password": "vi123"  
}
```

POST User Login

http://localhost:8070/auth/login

This API function allows the users to login to the system using their credentials and a separate JSON web token will be generated for each logged in user.

Body raw (json)

json

```
{  
  "email": "tj@gmail.com",  
  "password": "tj123"  
}
```

GET Get All Users

http://localhost:8070/user/

Using this API users can view all the users within the system with available authentication.

AUTHORIZATION Bearer Token

Token

<token>

PUT Update User By Id

http://localhost:8070/user/update/66234080d1efeaa1852fd7eb

Users can update their user accounts via this API by using the their specific user id with an active authentication token.

Body raw (json)

json

```
{
  "fullName": "Vini Jr",
  "email": "vini@gmail.com",
  "userName": "vinijr",
  "password": "vi123"
}
```

GET View User By Id

http://localhost:8070/user/get/66234080d1efeaa1852fd7eb

Users can view their user accounts via this API by using the user Id with an active authentication token.

DELETE Delete User By Id

http://localhost:8070/user/delete/662545a70405dbc88f97c28a

Users can delete their user accounts via this API by using the user Id with an active authentication token.

Token	<token>
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Mars Rover API

This folder includes the API request which is responding with a collection of pictures of the planet Mars' surface. The user can visit the Mars Rover page and look at the pictures clicked by the official NASA rovers on Mars. This API belongs to NASA.

GET Mars Rover Get API

https://api.nasa.gov/mars-photos/api/v1/rovers/curiosity/photos?sol=1000&api_key=wC8n5rUiWbcaajhkJRO3GNz14zEGkXWqXfH8E7E0

This API is used to return a collection of pictures of the surface of the planet Mars. The photos are clicked by the Curiosity, Opportunity and the Spirit Rovers.

PARAMS

sol	1000
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api_key	wC8n5rUiWbcaajhkJRO3GNz14zEGkXWqXfH8E7E0
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APOD

This folder includes the API request which is responding with the Astronomy Picture Of the Day which is decided by NASA along with a description of the picture provided by the API. The user can visit the Astronomy Picture Of the Day page and look at the daily picture offerec by NASA along with a brief description. This API belongs to NASA.

`https://api.nasa.gov/planetary/apod?api_key=wC8n5rUiWbcaajhxJRO3GNz14zEGkXWqXfH8E7E0`

This API is used to return the Astronomy Picture Of the Day which is provided by NASA. It returns the space related picture along with the description regarding it.

PARAMS

<code>api_key</code>	<code>wC8n5rUiWbcaajhxJRO3GNz14zEGkXWqXfH8E7E0</code>
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