API Specification Doc

(*UF Nestmate*)

Version	Date	Author	Description
1.0	28-Feb-2025	Rohit Bogulla	Initial draft
1.1	03-March-2025	Jatin Shivaprakash	Adding comment apis specification

1. User login

Authenticate the user with the system with username and password. The authentication will be changed to OAuth in next version.

Request

Method	URL
POST	api/user/login

Type	Params	Values
POST	username	string
POST	password	string

Response

Status	Response
200	{response: "login successful"}
400	{"error":"Please provide username."}
400	{"error":"Please provide password."}
401	{"error":"Incorrect username or password."}
500	{"error":"Something went wrong. Please try again later."}

2. User registration

Adds a new user to the system

Request

Method	URL
POST	/api/user/register

Type	Params	Values
POST	FirstName LastName UserName Password Email	String String String String Email

UserName
Unique across the system.

Basic user details required.

Response

Status	Response
200	{"response": "user registration successful"}
400	{"error":"username already exists"}
500	{"error":"Something went wrong. Please try again later."}

3. Apartment Registration

Adds a new apartment or property to the application.

Request

Method	URL
POST	/api/housing/add

Type	Params	Values	Required (DefaultValue)
POST	ID Name Address Vacancy Rating Description	String String String Integer Float String	Optional (current timestamp) Required Required Optional (0) Optional (0) Optional

ID
Unique ID across all the properties. If not given current timestamp will be used for ID.

Name, Address, Vacancy, Rating
Basic details of the property. If not provided will be using default values mentioned above.

Description
Optional. In future will be populated based on comments and reviews on the apartment.

Response

Status	Response
200	{"response": "property added successful"}
400	{"error":"property ID already exists"}
400	{"error":"invalid vacancy count"}
400	{"error":"Error unmarshalling Json"}
500	{"error":"Something went wrong. Please try again later."}

4. Update Apartment details

Update apartment details. Mostly will be used to change description, vacancy or ratings.

Request

Method	URL

POST	/api/housing/update

Type	Params	Values	Required
POST	ID Name Address Vacancy Rating Description	String String String Integer Float String	Required Optional Optional Optional Optional Optional

Details of the property that needs to be updated.

ID:
Required, to update the appropriate entry.

Response

Status	Response
200	{"response": "property updated successful"}
400	{"error":"property Id doesn't exists"}
500	{"error":"Something went wrong. Please try again later."}

5. Comments on Apartment

Add comments on apartments.

Request

Method	URL
POST	/api/comments/add

Type	Params	Values	Required
POST	ID HousingID Comment Rating	String String String Float	Required Required Required Optional

ID
Unique ID for comments.

HousingID
ID of the apartment for which the comment is intended.

Comment, Rating
Specifics of the comments.

Response

Status	Response
200	{"response": "comment successfully added"}
400	{"error":"the apartment doesn't exist"}
500	{"error":"Something went wrong. Please try again later."}

6. Getter for comments

Getter apis for comments

Request

Method	URL
GET	/api/comments/get

Type	Params	Values	Required
GET	ID HousingID	String String	Optional Optional

HousingID
ID of the apartment for which the comments are to be fetched. If provided, other fields will be ignored and all comments specific to this apartment will be fetched.

ID
ID for the comment to be fetched. Will be read only when HousingId not provided. Only the specific comment will be fetched.

Response

Status	Response
200	{"commentId" : ["commentId", "housingId", "comment", "rating"]}
400	{"error":"the apartment doesn't exist"}
500	{"error":"Something went wrong. Please try again later."}

7. Getters for Users, Apartments

Getter apis for users and apartments

Request

Method	URL
GET	/api/users /api/housing/get

Type	Params	Values	Required
GET user getter	Username	String	Required
GET housing getter	HousingID	String	Optional

UserName
Retrieve specific user information from database.

HousingID
Retrieve specific housing information from database

Response

Status	Response
200	{""username":["username", "first name", "last name", "email"]} {"housingID":["name", "address", "housingID", "vacancy", "rating"]}
400	{"error":"username doesn't exist"} {"error":"housing doesn't exist"}
500	{"error":"Something went wrong. Please try again later."}