Roomie Backend API

Roomie Backend API enables users to manage user authentication, group interactions, and expense tracking effectively.

**Endpoints:**

**1. User Authentication:**

***a- Login***

Description: This endpoint is used to log in. It takes in the user's username and password, validates them against the database, and returns an authentication token if successful.

Address: <http://localhost:8080/roomies/auth/login>

Method: POST

Accepts: JSON Object:

{

"name": "Osman Sah Yilmaz",

"password" : "adminpass01"

}

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-25T19:30:24.2680015",

"data": {

"token": "662a8520a51af2184dfb452f",

"timeOut": "2024-08-03T19:30:24.2589857"

}

}

***b- Register***

Description: Registers a new user in the system. This endpoint accepts the user's username, password, and email, validates the input, and creates a new user record in the database if the registration is successful.

Address: <http://localhost:8080/roomies/auth/register>

Method: POST

Accepts: JSON Object:

{

"name": "Osman Sah Yilmaz",

"username" : "osmansah01",

"email" : "osmansahyilmaz@gmail.com",

"password" : "adminpass01"

}

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-25T19:27:38.3682797",

"data": "User registered."

}

***c- Logout***

Description: Logs out the currently authenticated user by invalidating their authentication token.

Address: <http://localhost:8080/roomies/auth/logout>

Method: GET

Accepts: token as a @RequestHeader

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-25T19:38:10.0747803",

"data": "Token destroyed."

}

**2. Group Management:**

***a- Checking User Has Group***

Description: Checks if the logged-in user is part of any group by its ID.

Address: <http://localhost:8080/roomies/groups/>{userId}

Method: GET

Returns: JSON Object:

{

"status": "ERROR",

"time": "2024-04-25T19:43:56.6106334",

"data": "User has no group!"

}

***b- Creating New Group***

Description: Creates a new group.

Address: <http://localhost:8080/roomies/groups/create-group>

Method: POST

Accepts: JSON Object:

{

“name”: "a3 210 agalar",

“username”: “osmansah01”

}

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-25T23:28:50.1995526",

"data": "Group Created Succesfully."

}

***c- Joining to the group***

Description: Adds an user to an existing group by Group Code.

Address: [http://localhost:8080/roomies/groups](http://localhost:8080/roomies/groups/create-group)/{groupCode}/join

Method: PUT

Accepts: userId as a @RequestParam

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-25T23:36:17.4074024",

"data": "Joined Group Successfully"

}

***d- Leaving Group***

Description: Allows a user to leave a group by Group Code.

Address: [http://localhost:8080/roomies/groups](http://localhost:8080/roomies/groups/create-group)/{groupCode}/leave

Method: DELETE

Accepts: userId as a @RequestParam

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-25T23:45:43.162286",

"data": "Left Group Successfully"

}

**3. Expense Management:**

***a- Adding new expense***

Description: Adds a new expense.

Address: <http://localhost:8080/roomies/expenses/>

Method: POST

Accepts: JSON Object:

{

"username" : "osmansah01",

"description" : "bread",

"amount" : "7.5",

"categoryName" : "Market"

}

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-25T23:50:11.5221373",

"data": "Expense Added Successfully!"

}

***b- Retrieving monthly expenses for the group***

Description: Details of current months’ expenses by its groupID. Amount, category, description, date and name are returned.

Address: <http://localhost:8080/roomies/expenses/>{groupID}

Method: GET

Returns: JSON Object:

{

"status": "OK",

"time": "2024-04-26T00:02:20.9513713",

"data": [

{

"amount": 7.5,

"category": {

"id": "01",

"name": "Market"

},

"description": "bread",

"date": "2024-04-26",

"name": "Osman Sah Yilmaz"

},

{

"amount": 100.0,

"category": {

"id": "01",

"name": "Market"

},

"description": "weekly egg for breakfast",

"date": "2024-04-26",

"name": "Osman Sah Yilmaz"

},

{

"amount": 800.0,

"category": {

"id": "01",

"name": "Market"

},

"description": "meat, chicken, milk for this week",

"date": "2024-04-26",

"name": "Osman Sah Yilmaz"

}

]

}

***c- Deleting an expense***

Description: Deletes an expense, if necessary.

Address: <http://localhost:8080/roomies/expenses/>{expenseID}

Method: DELETE

Accepts: groupId as a @RequestParam

Returns: JSON Object:  
{

"status": "OK",

"time": "2024-04-26T00:08:55.4633998",

"data": "Expense Removed Successfully!"

}

**Team Members:**

Osman Şah Yılmaz 31316

Derin Özkalkan 30658

Selin İmren 31194