 ***IBA Karachi***

**Web Based Application Dev (CSE- 308)**

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API Document

Project Idea: **Recipe Sharing Platform**

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## **Endpoints**

### 1. ****Sign Up****

**Endpoint:**

**POST /signup**

**Description: Create a new user account.**

**Request:**

{ "username": "john\_doe", "email": "john.doe@example.com", "password": "password123" }

**Response:**

Status: 201 Created { "message": "User created successfully", "user": { "\_id": "5f81d6ef43be5800171f16fe", "username": "john\_doe", "email": "john.doe@example.com", "role": "regular" } }

**Possible Errors:**

* **400 Bad Request: Invalid request body format or missing required fields.**
* **409 Conflict: User with the provided email or username already exists.**
* **500 Internal Server Error: An error occurred on the server.**

### 2. ****Log In****

**Endpoint:**

**POST /login**

**Description: Authenticate and log in a user.**

**Request:**

**{ "email": "john.doe@example.com", "password": "password123" }**

**Response:**

**Status: 200 OK { "message": "Logged in successfully", "user": { "\_id": "5f81d6ef43be5800171f16fe", "username": "john\_doe", "email": "john.doe@example.com", "role": "regular", "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..." } }**

**Possible Errors:**

* **400 Bad Request: Invalid request body format or missing required fields.**
* **401 Unauthorized: Invalid email or password.**
* **500 Internal Server Error: An error occurred on the server.**

### 3. ****Log Out****

**Endpoint:**

**POST /logout**

**Description: Log out the currently authenticated user.**

**Request:**

* **Authentication token in the request headers.**

**Response:**

**Status: 200 OK { "message": "Logged out successfully" }**

**Possible Errors:**

* **401 Unauthorized: User is not authenticated.**
* **500 Internal Server Error: An error occurred on the server.**

### 4. ****Create Recipe****

**Endpoint:**

**POST /recipes**

**Description: Create a new recipe.**

**Request:**

**{ "title": "Spaghetti Bolognese", "ingredients": ["spaghetti", "ground beef", "tomato sauce"], "steps": ["Cook spaghetti", "Brown ground beef", "Mix with tomato sauce"], "cuisineType": "Italian", "difficultyLevel": "Medium" }**

**Response:**

**Status: 201 Created { "message": "Recipe created successfully", "recipe": { "\_id": "5f81d9ef43be5800171f16ff", "title": "Spaghetti Bolognese", "ingredients": ["spaghetti", "ground beef", "tomato sauce"], "steps": ["Cook spaghetti", "Brown ground beef", "Mix with tomato sauce"], "cuisineType": "Italian", "difficultyLevel": "Medium" } }**

**Possible Errors:**

* **400 Bad Request: Invalid request body format or missing required fields.**
* **500 Internal Server Error: An error occurred on the server.**

### 5. ****Get Recipe by ID****

**Endpoint:**

**GET /recipes/:id**

**Description: Retrieve a specific recipe by its ID.**

**Request:**

* **URL Parameters:**
  + **id: The ID of the recipe to retrieve.**

**Response:**

**Status: 200 OK { "\_id": "5f81d9ef43be5800171f16ff", "title": "Spaghetti Bolognese", "ingredients": ["spaghetti", "ground beef", "tomato sauce"], "steps": ["Cook spaghetti", "Brown ground beef", "Mix with tomato sauce"], "cuisineType": "Italian", "difficultyLevel": "Medium" }**

**Possible Errors:**

* **400 Bad Request: Invalid ID format.**
* **404 Not Found: Recipe with the provided ID does not exist.**
* **500 Internal Server Error: An error occurred on the server.**

### 6. ****Get All Recipes****

**Endpoint:**

**GET /recipes**

**Description: Retrieve a list of all recipes.**

**Request:**

* **None**

**Response:**

**Status: 200 OK [ { "\_id": "5f81d9ef43be5800171f16ff", "title": "Spaghetti Bolognese", "ingredients": ["spaghetti", "ground beef", "tomato sauce"], "steps": ["Cook spaghetti", "Brown ground beef", "Mix with tomato sauce"], "cuisineType": "Italian", "difficultyLevel": "Medium" }, // More recipes... ]**

**Possible Errors:**

* **500 Internal Server Error: An error occurred on the server.**

### 7. ****Update Recipe****

**Endpoint:**

**PUT /recipes/:id**

**Description: Update an existing recipe.**

**Request:**

* **URL Parameters:**
  + **id: The ID of the recipe to update.**
* **Request Body:**

**{ "title": "Updated Spaghetti Bolognese", "ingredients": ["updated spaghetti", "ground beef", "tomato sauce"], "steps": ["Cook updated spaghetti", "Brown ground beef", "Mix with tomato sauce"], "cuisineType": "Italian", "difficultyLevel": "Hard" }**

**Response:**

**Status: 200 OK { "\_id": "5f81d9ef43be5800171f16ff", "title": "Updated Spaghetti Bolognese", "ingredients": ["updated spaghetti", "ground beef", "tomato sauce"], "steps": ["Cook updated spaghetti", "Brown ground beef", "Mix with tomato sauce"], "cuisineType": "Italian", "difficultyLevel": "Hard" }**

**Possible Errors:**

* **400 Bad Request: Invalid ID format or request body format.**
* **404 Not Found: Recipe with the provided ID does not exist.**
* **500 Internal Server Error: An error occurred on the server.**

### 8. ****Delete Recipe****

**Endpoint:**

**DELETE /recipes/:id**

**Description: Delete a recipe.**

**Request:**

* **URL Parameters:**
  + **id: The ID of the recipe to delete.**

**Response:**

**Status: 204 No Content**

**Possible Errors:**

* **400 Bad Request: Invalid ID format.**
* **404 Not Found: Recipe with the provided ID does not exist.**
* **500 Internal Server Error: An error occurred on the server.**

### 9. ****Create Review****

**Endpoint:**

**POST /reviews**

**Description: Create a new review.**

**Request:**

**{ "rating": 4, "comment": "Delicious!", "user": "5f81d6ef43be5800171f16fe", "recipe": "5f81d9ef43be5800171f16ff" }**

**Response:**

**Status: 201 Created { "message": "Review created successfully", "review": { "\_id": "5f81db2843be5800171f1700", "rating": 4, "comment": "Delicious!", "user": "5f81d6ef43be5800171f16fe", "recipe": "5f81d9ef43be5800171f16ff" } }**

**Possible Errors:**

* **400 Bad Request: Invalid request body format or missing required fields.**
* **500 Internal Server Error: An error occurred on the server.**

### 10. ****Get Reviews for a Recipe****

**Endpoint:**

**GET /reviews/recipe/:recipeId**

**Description: Retrieve all reviews for a specific recipe.**

**Request:**

* **URL Parameters:**
  + **recipeId: The ID of the recipe to retrieve reviews for.**

**Response:**

**Status: 200 OK [ { "\_id": "5f81db2843be5800171f1700", "rating": 4, "comment": "Delicious!", "user": { "\_id": "5f81d6ef43be5800171f16fe", "username": "john\_doe", "email": "john.doe@example.com" } }, // More reviews... ]**

**Possible Errors:**

* **400 Bad Request: Invalid recipe ID format.**
* **404 Not Found: Recipe with the provided ID does not exist.**
* **500 Internal Server Error: An error occurred on the server.**

### 11. ****Get Reviews by User****

**Endpoint:**

**sql**

**GET /reviews/user/:userId**

**Description: Retrieve all reviews written by a specific user.**

**Request:**

* **URL Parameters:**
  + **userId: The ID of the user to retrieve reviews for.**

**Response:**

**Status: 200 OK [ { "\_id": "5f81db2843be5800171f1700", "rating": 4, "comment": "Delicious!", "recipe": { "\_id": "5f81d9ef43be5800171f16ff", "title": "Spaghetti Bolognese", "cuisineType": "Italian" } }, // More reviews... ]**

**Possible Errors:**

* **400 Bad Request: Invalid user ID format.**
* **404 Not Found: User with the provided ID does not exist.**
* **500 Internal Server Error: An error occurred on the server.**