API Endpoint: Forgot Password

Endpoint Details

- **URL:** `http://localhost:5000/api/user/forgotpassword`
- **Method:** POST
- **Description:** This endpoint initiates a password reset process by sending an email with a reset token and link to the provided email address. The reset token and link are valid for the next 30 minutes. Authentication is not required.

Request Parameters

Parameter	Type	Required	Description
email	string	Yes	User's email address

Test Cases

1. Successful Password Reset Request

- **Description:** Verify that the API sends a reset email when a valid email address is provided.
- **Input:**
  - email: valid@example.com
- **Expected Response:**
  - **Status Code:** 200 OK
  - **Body:** JSON object containing a success message (e.g., `{ "message": "Reset link sent successfully" }`)

2. Missing Email

- **Description:** Verify that the API returns an error when the email address is missing.
- **Input:**
  - None
- **Expected Response:**
  - **Status Code:** 400 Bad Request
  - **Body:** JSON object containing an error message about the missing email

3. Invalid Email Format

- **Description:** Verify that the API returns an error when the email address format is invalid.
- **Input:**
  - email: invalidemail
- **Expected Response:**
  - **Status Code:** 400 Bad Request
  - **Body:** JSON object containing an error message about the invalid email format

4. Nonexistent Email

- **Description:** Verify that the API handles the case where the email address is not associated with any account.
- **Input:**
  - email: nonexistent@example.com
- **Expected Response:**
  - **Status Code:** 404 Not found
  - **Body:** JSON object containing a message that user does not exist

Test Results

Test Case	Status	Response Code	Response Body	Remarks
Successful Password Reset Request	Pass	200	{ "message": "Reset link sent successfully" }	Reset email sent successfully
Missing Email	Pass	400	{ "message": "User does not exist}	Appropriate error message shown
Invalid Email Format	Pass	400	{ "message": "User does not exist }	Appropriate error message shown
Nonexistent Email	Pass	404	{ "message": "User does not exist" }	Appropriate handling shown