

Bug Report

Introduction

This bug report outlines the findings from testing the login and registration functionality of the provided REST API using Postman. The primary focus of this testing was to validate the system's adherence to the specified requirements: ensuring that the email field accepts only valid email formats, the password field enforces a minimum length of 8 characters, and that all required fields are properly validated for completeness.

The report identifies bugs related to input validation, error handling, and expected behavior based on various test cases. Each bug is documented with detailed descriptions, steps to reproduce, expected and actual outcomes, severity levels, and suggested fixes. Screenshots from Postman have been included to provide visual evidence and enhance the clarity of the findings.

This report aims to assist developers in addressing these issues and improving the overall quality and robustness of the application.

Positive Test Cases

Test Case	Input	Output	Screenshot
Successful Login	Valid email and password: { "email": "eve.holt@reqres.in", "password": "cityslicka" }.	Returns 200 OK with a token: { "token": "QpwL5tke4Pnpja7X4" }.	Screenshot 1
Successful Registration	Valid email and password for registration: { "email": "eve.holt@reqres.in", "password": "cityslicka" }.	Returns 200 OK with ID and token: { "id": "4", "token": "QpwL5tke4Pnpja7X4" }.	Screenshot 2

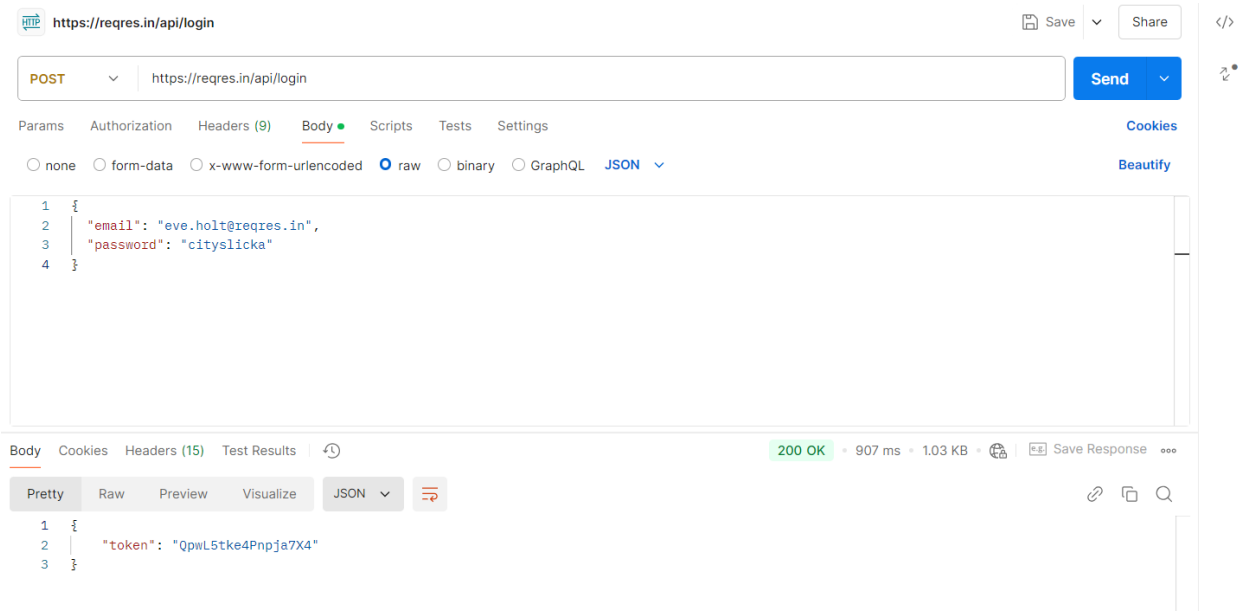
Negative Test Cases

Bug Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity	Suggested Fix	Screenshot
Invalid Password Length Not Handled Properly	1. Open Postman. 2. Set endpoint: https://reqres.in/api/login. 3. Use payload: { "email": "invalid@email.com", "password": "ci" }. 4. Send request.	API should return an error like "Password must be at least 8 characters."	API returns "user not found" , which is misleading	Major	Add validation to check password length and return specific errors.	Screenshot 3
Missing Password	1. Open Postman. 2. Set endpoint: https://reqres.in/api/login. 3. Use payload: { "email": "invalid@email.com " }. 4. Send request.	API should return "Password field is required."	API returns "missing password" , which is less user-friendly.	Minor	Update error message to be more user-friendly.	Screenshot 4
Invalid Email Format	1. Open Postman. 2. Set endpoint: https://reqres.in/api/login. 3. Use payload: { "email": "invalidemail.com", "password": "cityslicka" }. 4. Send request.	API should return an error like "Invalid email format."	API returns "user not found" , which is misleading.	Critical	Add email format validation and return specific error messages.	Screenshot 5
Missing Email	1. Open Postman. 2. Set endpoint: https://reqres.in/api/login. 3. Use payload: { "password": "cityslicka" }. 4. Send request.	API should return "Email field is required."	API returns "missing email or username" , which is less clear	Minor	Update error message to improve clarity.	Screenshot 6

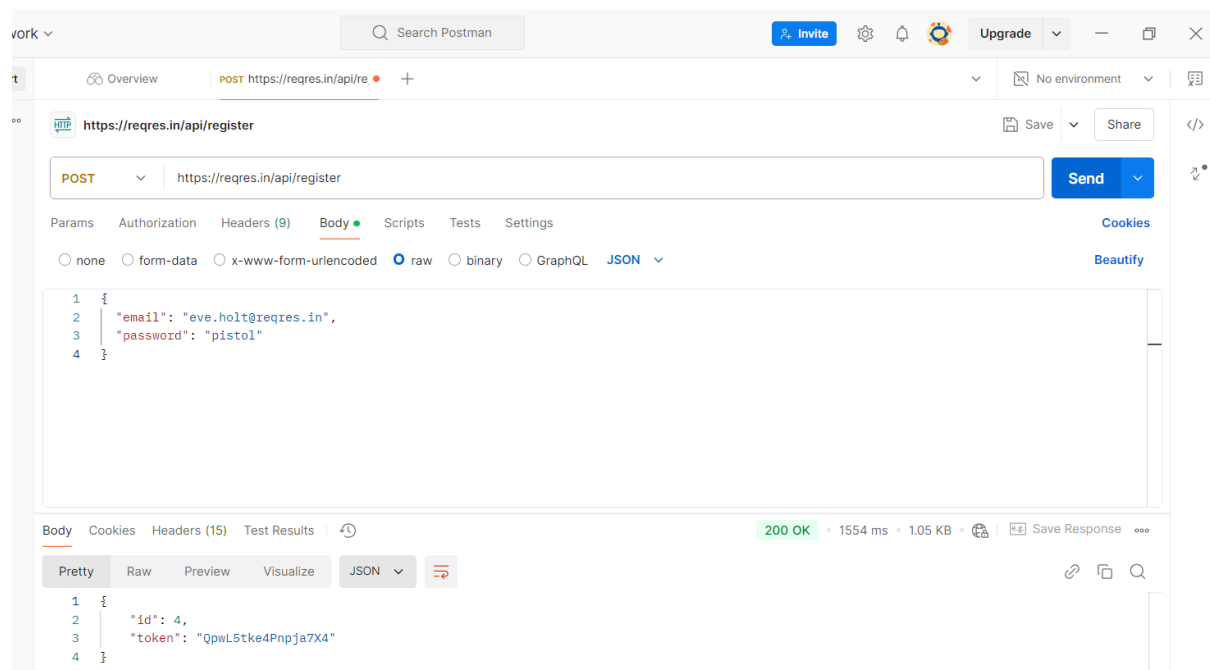
Screenshots

Positive Test Cases

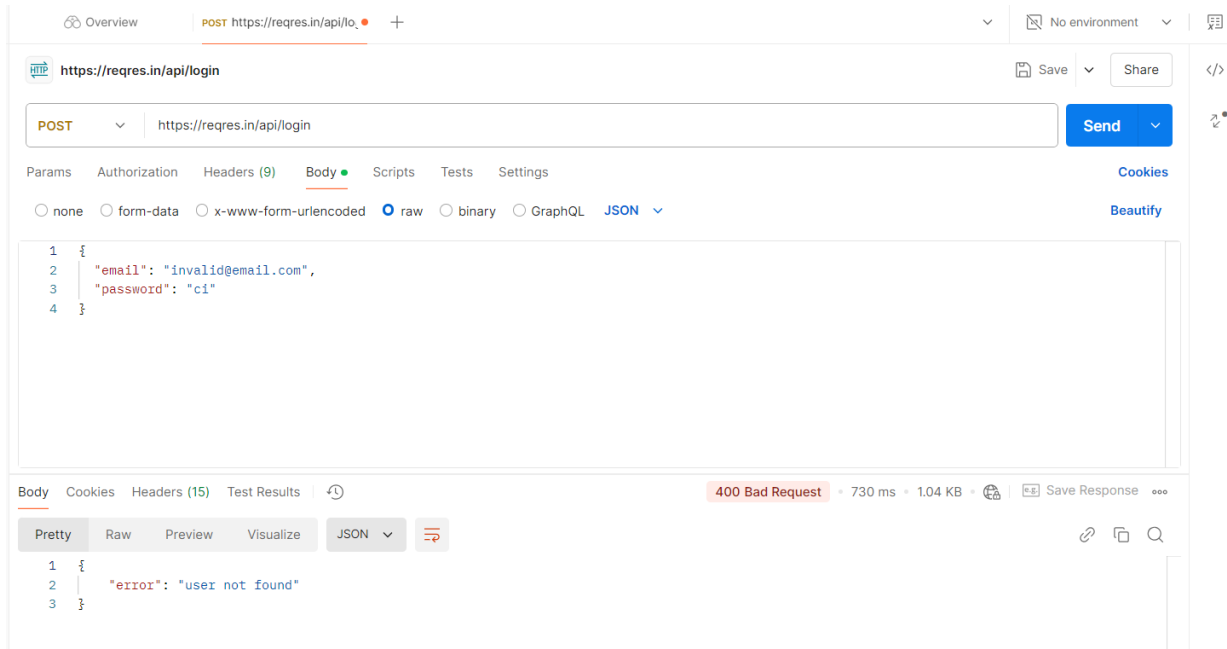
Screenshot 1



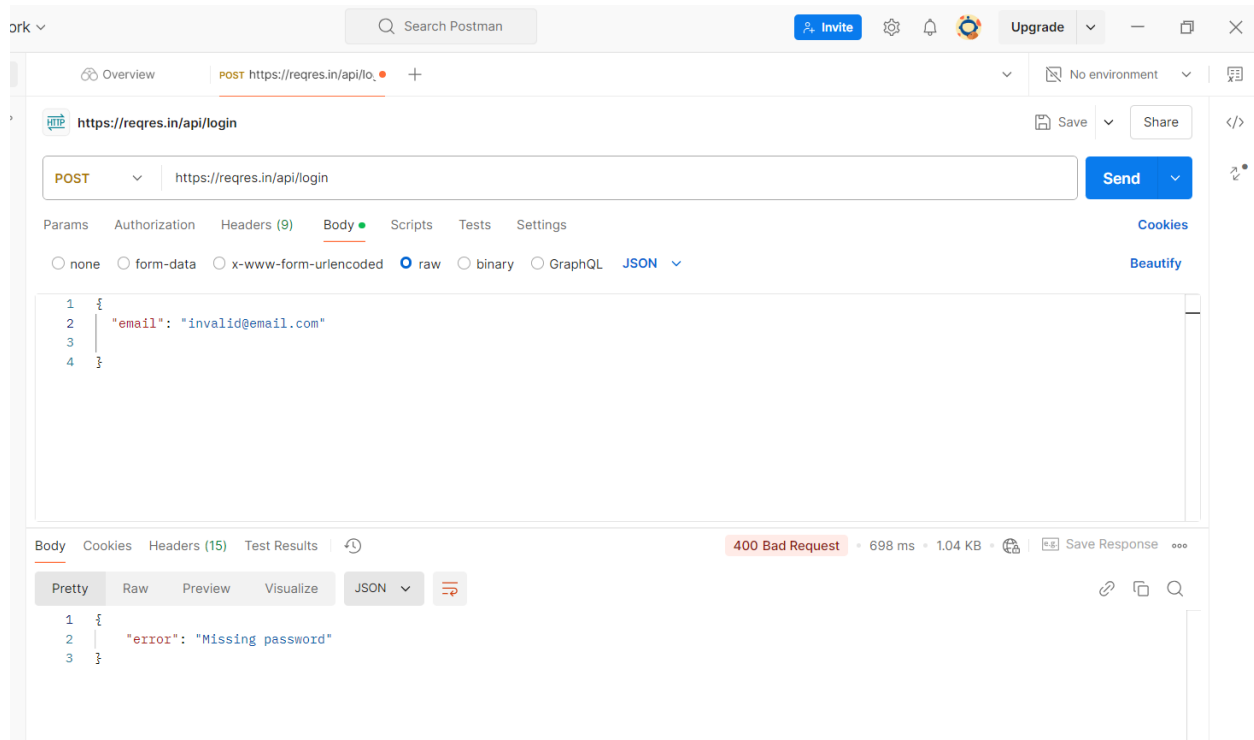
Screenshot 2



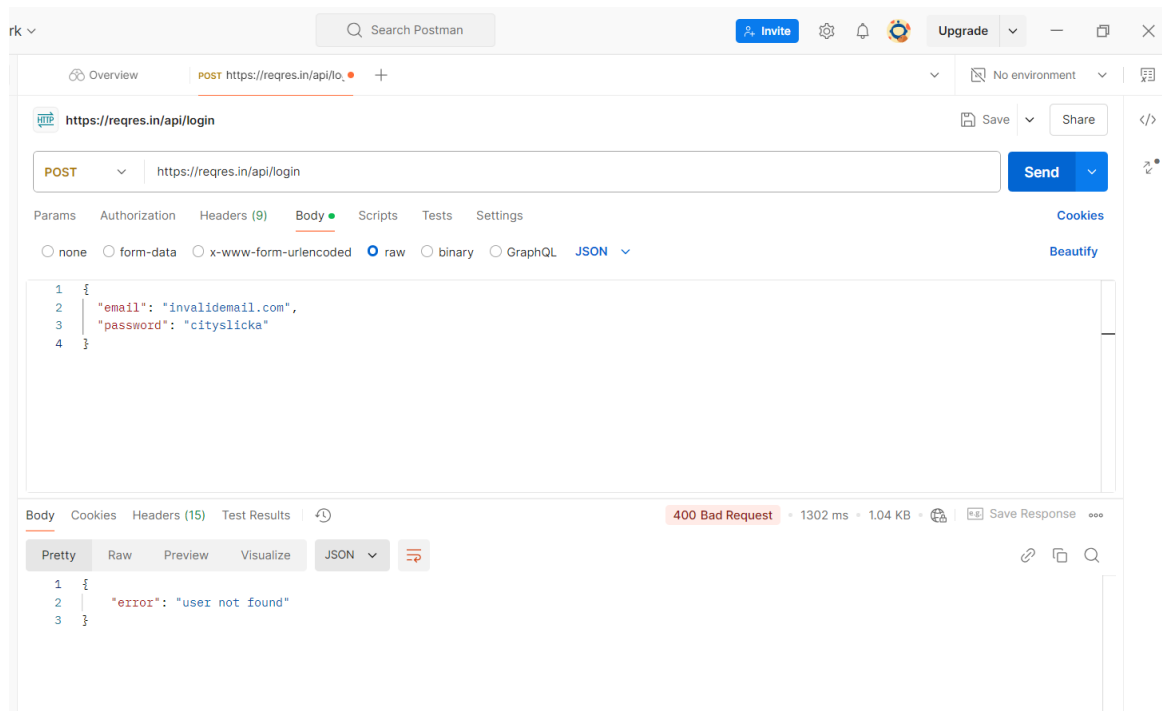
Screenshot 3



Screenshot 4



Screenshot 5



Screenshot 6

