

Black Box Testing

For Reservation:

Test Case	Input	Expected Outcome	Actual Result
Valid Reservation Submission	Valid data for all fields	Reservation should be made successfully, an email should be sent, and data should be saved to the Excel file.	As Expected
Reservation Unavailability	Attempting to reserve when no slots available	Server should respond with an error status (400 Bad Request) indicating no availability for the specified date and time.	As Expected
Invalid Email Format	Invalid email format	Server should respond with an error status (400 Bad Request) indicating that the email format is invalid.	As Expected
Invalid Date Format	Invalid date format	Server should respond with an error status (400 Bad Request) indicating that the date format is invalid.	As Expected
Invalid Time Format	Invalid time format	Server should respond with an error status (400 Bad Request) indicating that the time format is invalid.	As Expected
No Connection to Gmail SMTP	Submitting reservation without SMTP connection	Server should respond with an error status (500 Internal Server Error) indicating SMTP connection issue.	As Expected

No Connection to Excel File	Submitting reservation without Excel file connection	Server should respond with an error status (500 Internal Server Error) indicating Excel file connection issue.	As Expected
SQL Injection Attempt	Malicious SQL input	Server should sanitize inputs and prevent SQL injection, responding with an error status (400 Bad Request).	As Expected
Cross-site Scripting (XSS) Attempt	Malicious XSS input	Server should sanitize inputs and prevent XSS, responding with an error status (400 Bad Request).	As Expected

For Careers:

Test Case	Input	Expected Outcome	Actual Result
Valid Submission	Valid data for all fields	Application should be successfully submitted, and a confirmation email should be sent.	As Expected
Incomplete Submission	Missing some required fields	Server should respond with an error status (400 Bad Request or 422 Unprocessable Entity).	As Expected
Invalid Email Format	Invalid email format	Server should respond with an error status (400 Bad Request) indicating that the email format is invalid.	As Expected
Invalid Gender	Invalid gender value	Server should respond with an error status (400 Bad Request) indicating that the gender value is invalid.	As Expected

Invalid Contact Format	Invalid contact format	Server should respond with an error status (400 Bad Request) indicating that the contact format is invalid.	As Expected
No Connection to MongoDB	Submitting form without DB connection	Server should respond with an error status (500 Internal Server Error) indicating DB connection issue.	As Expected
No Connection to Gmail SMTP	Submitting form without SMTP connection	Server should respond with an error status (500 Internal Server Error) indicating SMTP connection issue.	As Expected
Duplicate Email Submission	Email already exists in the database	Server should respond with an error status (422 Unprocessable Entity) indicating duplicate submission.	As Expected
SQL Injection Attempt	Malicious SQL input	Server should sanitize inputs and prevent SQL injection, responding with an error status (400 Bad Request).	As Expected
Cross-site Scripting (XSS) Attempt	Malicious XSS input	Server should sanitize inputs and prevent XSS, responding with an error status (400 Bad Request).	As Expected

For Feedback:

Test Case	Input	Expected Outcome	Actual Result
Valid Feedback Submission	Valid data for all fields	Feedback should be saved successfully in the database.	As Expected

Missing Name	Missing name field	Server should respond with an error status (400 Bad Request) indicating that the name is required.	As Expected
Invalid Email Format	Invalid email format	Server should respond with an error status (400 Bad Request) indicating that the email format is invalid.	As Expected
Paragraph Exceeds Maximum Length	Paragraph longer than 50 characters	Server should respond with an error status (400 Bad Request) indicating that the paragraph length exceeds the limit.	As Expected
No Connection to MongoDB	Submitting feedback when MongoDB is not running or accessible	Server should respond with an error status (500 Internal Server Error) indicating MongoDB connection issue.	As Expected
SQL Injection Attempt	Malicious SQL input	Server should sanitize inputs and prevent SQL injection, responding with an error status (400 Bad Request).	As Expected
Cross-site Scripting (XSS) Attempt	Malicious XSS input	Server should sanitize inputs and prevent XSS, responding with an error status (400 Bad Request).	As Expected

For Recipes By Chef:

Test Case	Input	Expected Outcome	Actual Result
Valid Recipe Submission	Valid data for all fields	Recipe should be saved successfully in the database.	As Expected

Fetch All Recipes	Sending GET request to '/recipes'	Server should respond with a JSON array containing all recipes in the database.	As Expected
Fetch Specific Recipe	Sending GET request to '/recipes/:id'	Server should respond with the recipe corresponding to the provided ID.	As Expected
Non-existent Recipe ID	Sending GET request to '/recipes/:id' with an ID that doesn't exist in the database	Server should respond with an error status (404 Not Found) indicating that the recipe was not found.	As Expected
No Connection to MongoDB	Submitting or fetching recipes when MongoDB is not running or accessible	Server should respond with an error status (500 Internal Server Error) indicating MongoDB connection issue.	As Expected
SQL Injection Attempt	Malicious SQL input	Server should sanitize inputs and prevent SQL injection, responding with an error status (400 Bad Request).	As Expected
Cross-site Scripting (XSS) Attempt	Malicious XSS input	Server should sanitize inputs and prevent XSS, responding with an error status (400 Bad Request).	As Expected

For Offers:

Test Case	Input	Expected Outcome	Actual Result
Valid Offer Submission	Valid data for all fields	Offer should be saved successfully in the database.	As Expected
Fetch All Offers	Sending GET request to '/offers'	Server should respond with a JSON array containing all offers in the database.	As Expected

Fetch Specific Offer	Sending GET request to '/offers/:id'	Server should respond with the offer corresponding to the provided ID.	As Expected
Non-existent Offer ID	Sending GET request to '/offers/:id' with an ID that doesn't exist in the database	Server should respond with an error status (404 Not Found) indicating that the offer was not found.	As Expected
No Connection to MongoDB	Submitting or fetching offers when MongoDB is not running or accessible	Server should respond with an error status (500 Internal Server Error) indicating MongoDB connection issue.	As Expected
SQL Injection Attempt	Malicious SQL input	Server should sanitize inputs and prevent SQL injection, responding with an error status (400 Bad Request).	As Expected
Cross-site Scripting (XSS) Attempt	Malicious XSS input	Server should sanitize inputs and prevent XSS, responding with an error status (400 Bad Request).	As Expected