# Test Plan: Room Reservation Page & Backend Testing

Description: Test cases to verify UI and backend functionality of the room reservation page and reservation handling code.

Date: 09/08/2025

Course: CSD-460

Module: 7

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## Test 1 – Access Reservation Page via Navigation Link

Objective: Ensure functionality of 'Access Reservation Page via Navigation Link'.

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| --- | --- |
| **Developer** |  |
| **Date tested** |  |
| **Peer tester** | Christopher Reaney |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Navigate to the website and click 'Reserve a Room' link from navigation bar. | Reservation page loads correctly with form fields (name, email, check-in, check-out, room type). |  | Pass | Seems to work |
| 2 | Verify page title and heading. | Title displays 'Room Reservation'. |  | Fail | Title is MoffatBayLodge, but that may be OK. |

## Test 2 – Submit Reservation with Valid Data

Objective: Ensure functionality of 'Submit Reservation with Valid Data'.

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| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Fill in all required fields with valid data (dates, room type, name, email). | Data is accepted. |  |  |  |
| 2 | Click 'Submit Reservation'. | User is redirected to confirmation page with reservation details. |  |  |  |
| 3 | Check confirmation email (if applicable). | Email with reservation details is sent. |  |  |  |

## Test 3 – Submit Reservation with Missing/Invalid Data

Objective: Ensure functionality of 'Submit Reservation with Missing/Invalid Data'.

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| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Leave required fields blank (e.g., email). | Validation error message displayed. |  |  |  |
| 2 | Enter invalid data (e.g., check-out before check-in). | Validation error shown preventing submission. |  |  |  |
| 3 | Enter invalid email format. | System rejects invalid email format with error. |  |  |  |

## Test 4 – Check Reservation Conflicts (Overlapping Dates)

Objective: Ensure functionality of 'Check Reservation Conflicts (Overlapping Dates)'.

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| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Reserve Room A from 10/01/2025 to 10/05/2025. | Reservation successful. |  |  |  |
| 2 | Try to reserve Room A again for overlapping dates (10/03/2025 to 10/04/2025). | System rejects with conflict error message. |  |  |  |

## Test 5 – Verify Database Entry for Reservation

Objective: Ensure functionality of 'Verify Database Entry for Reservation'.

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| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Submit a valid reservation. | Reservation is saved in database. |  |  |  |
| 2 | Query the reservations table for the new entry. | Reservation record exists and matches submitted data. |  |  |  |

## Test 6 – Cancel Reservation

Objective: Ensure functionality of 'Cancel Reservation'.

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| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Log in and go to reservation history. | Reservations are listed. |  |  |  |
| 2 | Click 'Cancel' on an active reservation. | Reservation is removed from active list and marked canceled in database. |  |  |  |

## Test 7 – View Reservation Confirmation Page/Details

Objective: Ensure functionality of 'View Reservation Confirmation Page/Details'.

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| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Complete a valid reservation submission. | Redirected to confirmation page. |  |  |  |
| 2 | Check confirmation page details. | Page shows correct guest name, room type, and stay dates. |  |  |  |

## Test 8 – Reservation Page Responsiveness

Objective: Ensure functionality of 'Reservation Page Responsiveness'.

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| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Resize browser to desktop, tablet, and mobile widths. | Layout adjusts without breaking form or buttons. |  |  |  |
| 2 | Test form fields and submission on mobile view. | Form works correctly in responsive mode. |  |  |  |

## Test 9 – Reservation Backend Error Handling

Objective: Ensure functionality of 'Reservation Backend Error Handling'.

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| --- | --- |
| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** |  |
| **Date tested** | 09/14/2025 |

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| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Simulate backend error (e.g., database unavailable). | Error page shown with friendly message. |  |  |  |
| 2 | Submit duplicate request quickly. | System prevents duplicate reservations with proper error handling. |  |  |  |

## Test 10 – Security: Prevent Unauthorized Reservations

Objective: Ensure functionality of 'Security: Prevent Unauthorized Reservations'.

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| --- | --- |
| **Developer** |  |
| **Date tested** | 09/14/2025 |
| **Peer tester** | Christopher Reaney |
| **Date tested** | 09/14/2025 |

A screenshot of a computer

AI-generated content may be incorrect.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Developer Pass/Fail | Tester Pass/Fail | Comments |
| 1 | Try to submit reservation while not logged in (if login required). | Redirected to login page. |  | Pass | Doesn’t go back to index page, but instead suggests that we login. I like that better. |
| 2 | Attempt to alter reservation ID in URL to another user's reservation. | System denies access with error/redirect. |  | PASS | Doesn’t appear to be accessible at all without being logged in, so that seems good |