TEST AND STRATEGY PLAN

Template adapted based on ISO-29119-3.

**1. Epic and test effort estimation**

Creation of users and reservations

Effort: High

**2. User Stories and test effort estimation**

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| --- | --- | --- |
| **Code** | **Description** | **Effort** |
| JIRA-1001 | Make reservations | High |
| JIRA-1002 | Cancel reservations | High |
| JIRA-1003 | List my reservations | Medium |
| JIRA-1004 | Manage users | High |
| JIRA-1005 | Manage reservations | High |

**3. Test conditions and layers**

**JIRA-1001: Make reservations**

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| **ID** | **Test condition** | **Expected result** | **Layer** | **Priority** |
| 1 | Common user **logged in** selects **morning** on a day with **< 2 reservations** in morning and make a new reservation | Reservation is created successfully. A succeed (green) toast is displayed. The UI for the slot shows the name of the user in the list of users with reservations | Web | High |
| 2 | Common user **logged in** selects **afternoon** on a day with **2 reservations already created and try to make a new reservation** | Reservation cannot be created, the UI shows the message “Slot is full” and does not offer the link to create the reservation | Web | High |
| 3 | Common user **logged in** attempts **two reservations in the same slot/day** | Second reservation is not possible, the option to cancel the current reservation will be displayed for the user in the UI | Web | High |
|  | Common user **logged in** reserves **two different slots on the same day** | Both reservations are created successfully if the slots have still capacity. Success toast message shown. | Web | High |
| 4 | Admin **logged in** creates a reservation for himself in a slot with **< 2 reservations** | Reservation is successfully created in the selected slot. A green toast/message is shown. The UI updates to reflect the list of users with reservations. | Web | High |
| 5 | Admin **logged in** attempts to create a reservation for himself in a slot with **2 reservations already created** | Reservation cannot be created, the UI shows the message “Slot is full” and does not offer the link to create the reservation | Web | High |
| 6 | Common user **logged in reserves 3 different slots on same day** | Reservations are created if the slots have capacity | Web | Medium |
| 7 | Admin **logged in** attempts to create a reservation for another user in a slot without **reservations** | The admin has not the ability to create reservations for other users | Web | Medium |

**JIRA-1002: Cancel reservations**

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| **ID** | **Test Condition** | **Expected result** | **Layer** | **Priority** |
| 1 | Common user logged in cancels **own reservation** (morning slot) | Reservation is deleted a success toast message is shown. UI reflects the change in the list of users with reservations. | Web | High |
| 2 | An admin user logged in cancel its own reservation | Reservation deleted and a success toast message is shown. UI reflects the change in the list of users with reservations. | Web | High |
| 3 | An admin user logged in cancels another user’s reservation | Reservation deleted and a success toast message is shown. UI reflects the change in the list of users with reservations. | Web | High |

**JIRA-1003: List my reservations**

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| **ID** | **Test condition** | **Expected result** | **Layer** | **Priority** |
| 1 | Common user logged in with reservations | On “My Reservations” page, all upcoming reservations for the date selected are listed.  The date and the slot time is displayed along with a link to cancel the reservation. | Web | Medium |
| 2 | Admin user logged in with a reservation | On “My Reservations” page, all upcoming reservations for the date selected are listed.  The date and the slot time is displayed along with a link to cancel the reservation. | Web | Medium |
| 3 | Common user logged in, without reservations. | The reservations page should display the message “No reservations found for this date” | Web | Low |
| 4 | Common user logged in with 3 reservations for a specific date | The 3 reservations should be listed on the specific date selected on “My Reservations” page | Web | Medium |

**JIRA-1004: Management of users**

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| **ID** | **Test condition** | **Expected result** | **Layer** | **Priority** |
| 1 | Admin logged in creates a new common user | User is created with role “user”, and a success toast message is shown. The new user appears in the “User Management” table | Web | High |
| 2 | Admin logged in can creates a new “admin” user | User is created with role “admin” success toast message is shown. The new user appears in the “User Management” table | Web | High |
| 3 | Admin logged in edits existent user | Changes (email/display name/role) saved successfully. Confirmation message shown. Changes persist after reloading. | Web | Medium |
| 4 | Admin logged in deletes user | User is removed from DB. All their reservations are also removed. Slot capacities update accordingly. UI list of users reflects the removal of the user | Web | High |
| 5 | Common user logged in tries to access management page | The common user should not have access to the management of user’s page. User should be redirected to home page | Web | Medium |

**JIRA-1005: Manage reservations**

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| **ID** | **Test condition** | **Expected result** | **Layer** | **Priority** |
| 1 | Admin user logged in edits a reservation to another slot with capacity | The reservation should be updated a success toast message is shown. The UI list of reservations reflect the changes. | Web | High |
| 2 | Admin user logged in deletes any reservation | Reservation deleted and a success toast message is shown message displayed. The UI list of reservations reflects the removal of the reservation. The UI calendar page reflects the removal of the reservation | Web | High |
| 3 | Common user tries to edit a reservation | Edition of reservations are in Admin panel, the page is not accessible by the common users /Admin. They should be redirected to home | Web | Medium |

**4. Exploratory testing - Missions**

**Charter #1 - Create reservations (Happy path)**. *Explore the reservation creation flow as a common user applying the heuristic “Testing wisdom - One test is an experiment designed to reveal information.” Cover available time slots (morning, afternoon, evening) and error handling when slots are unavailable.*

**Charter #2 - Manage users (admin)***Explore* user creation, edition, and deletion as an admin using heuristics “CRUD” and “Strings.” Try long names, special characters, blank fields, duplicate emails, and invalid inputs. Verify role assignment (user/admin) and confirm common users cannot access user management*.*

**Charter #3 - Cancel reservations (common user and admin)** *Explore cancelation of reservations applying the heuristic “Risk Testing – imagine a problem and then look for it.” Include common user canceling their own reservations, and admin canceling both their own and other users’ reservations.*

**Charter #4 - View reservations (common user and admin)** *Explore the navigation and display of reservations applying the heuristic “Navigation.” Verify that a common user only sees their own reservations (or a message if none exist), and that an admin can list and manage reservations for all users.*

**Charter #5 – Manage reservations (admin)***Explore editing and deleting reservations as an admin using heuristics “CRUD” and “Error Guessing.” Verify successful updates, consistent deletion behavior, and correct feedback messages on the interface.*

**5. Non-functional tests**

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| **Type** | **Test** | **Expected result** |
| Security testing | Attempt SQL Injection, XSS, and other common exploits on BookingMate. | BookingMate is secure: no unauthorized access, data leakage, or exploitation possible. |
| Cross-browser testing | Run BookingMate on Chrome, Firefox, Safari, Edge (latest versions) | BookingMate displays correctly and functions consistently across all tested browsers. |
| Accessibility testing | Evaluate BookingMate pages with screen readers, keyboard-only navigation, and color contrast tools. | BookingMate meets at least WCAG 2.1 AA compliance for accessibility. |
| Performance testing | Validate the login with 100 users concurrently. | System handles it without lag and meets (p95 <=100 ms). |

**6. Automated tests**

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| **ID** | **Condition** | **Expected result** | **Layer** |
| 1 | Common user logged in selects morning on a day with < 2 reservations in morning | Reservation is created successfully. A green toast is displayed. UI updates showing user's name in the reservation list. | Web |
| 2 | Common user attempts to create a reservation in a full afternoon slot (2 already created) | Reservation is not created. UI shows “Slot is full” and does not offer the link to reserve. | Web |
| 3 | Admin user cancels another user’s reservation | Reservation is deleted. A success toast is shown. UI updates removing the reservation from the list. | Web |
| 4 | Admin edits a reservation to another slot with capacity | Reservation updated. A success toast is shown. UI list reflects the updated slot and time. | Web |

**7. Test data mapping**

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| **Test Data** | **Type** | **Responsible** | **Status** |
| Common user with no reservations | Database Record | Jorge Mercado | To do |
| Common user with 3 reservations on a date | Database Record | Jorge Mercado | To do |
| Admin user | Database Record | Jorge Mercado | To do |
| Day with full slot in the afternoon | Database Record | Jorge Mercado | To do |

**8. Known defects**

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| **ID** | **Defect** | **Severity** | **Layer** | **Defect ID** |
| 1 | Slot availability does not update immediately after deleting a reservation | High | Web | BUG-1005 |
| 2 | Deleted users' reservations still appear in slot UI and "My Reservations" page | High | Web | BUG-1006 |
| 3 | Toast success messages sometimes display even when operation failed | Low | Web | BUG-1007 |
| 4 | The count of the reservations on the calendar slots is wrong | Medium | Web | BUG-1008 |
| 5 | The tooltip on calendar page for the reservation’s summary is displayed only in Chrome browser | Low | Web | BUG-1009 |