
Group 20

**Booking Hotel
<Iteration/ Master> Test Plan**

Version 1.0

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Revision History

Date	Version	Description	Author
04/Jan/23	1.0	First version of the Test plan.	Nguyễn Thị Ánh Tuyết

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1. Introduction

The purpose of this Test Plan is to gather all the necessary information to plan for testing the “Booking Hotel” website, and to control the test effort of the project. This document describes the approach to test the software. It is the highest-level plan created and used by the managers to control the test effort. This document supports:

1. Visualize the test plan of the project
2. Identify the required software, hardware requirements for the process of testing, and allocate appropriate human resources
3. Identify the project information and software components that should be tested
4. List the recommended high-level test requirements
5. Describe and recommend the testing strategies to be used
6. Identify resources required for the testing process and time estimation for the test efforts
7. List the deliverables of the testing activities

Scope defines the features and requirements (functional or non-functional) of the software that will be tested. This assumes that unit testing has already been performed thoroughly beforehand with extensive coverage of the source code, and testing of all module interfaces is already performed.

2. Target Test Items

2.1 Software items for testing

- Authentication:
 - o Users can sign up using valid personal information
 - o Users can sign into their account using the correct credentials
- Hotel rooms management:
 - o Hotel owners can add their rooms into the system with detailed information (name, address, images, description, facilities, etc.)
 - o Hotel owner can update their rooms details when needed
- Customer booking management:
 - o Customer can book rooms if they are available, and be able to pay for the bookings
 - o Customer can cancel a booking that they have not completed (not used)
 - o Customer can leave a review for each booking that they finished
- Valid form for search:
 - o Customer can search for rooms with valid search details
- System and rendering:
 - o The web interface is rendered and displayed correctly on the desktop per the design specifications
 - o Users can use the web interface in full, without any missing/covered parts
- User profile:
 - o Users can have their own profile with an avatar and other personal information
 - o Users can edit their avatar and personal information through the web interface

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2.2 Testing techniques and strategies

2.2.1 Functional testing

Test objectives

Make sure the website functions as expected, including proper navigation throughout the website, data retrieval, processing and update performs as the specification.

Technique

Execute the use cases with valid or invalid data, to verify that expected results occur when valid data is used, and appropriate error messages are shown when invalid data is used.

Completion criteria

All planned tests are executed, and all identified defects are addressed and documented in appropriate documents.

2.2.2 Usability testing

Test objectives

Ensure the website is good-looking, easy to use and user-friendly, users can easily navigate and interact with the website without any difficulty.

Technique

Use various window (web browser) sizes to test, perform manual usage and navigation tests.

Completion criteria

The interface remains consistent throughout the different sizes, and website content is shown in full without any missing parts.

2.2.3 Configuration testing

Test objectives

Verify website expected behavior across different software and hardware configurations.

Technique

Use different browsers (Chrome, Firefox, Edge, etc.) and machines to conduct the tests.

Completion criteria

For each combination of the software and hardware, website functionalities remain consistent and the website responds as expected.

3. Environmental Needs

This section presents the non-human resources required for the Test Plan.

3.1 Hardware Requirements

Operating system: Windows 10, Windows 11 (recommended)

RAM: 4GB or more

The hardware should be able to run the operating system and web browser without any problem.

3.2 Software in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

Software Name	Purpose	Version	Type and Other Notes
Firefox	Run web application	108.0.1	Internet Browser

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Software Name	Purpose	Version	Type and Other Notes
Google Chrome	Run web application	105.0.5195.127	Internet Browser
Microsoft Edge	Run web application	106.0.1370.34	Internet Browser
Windows 10, 64bit	Run the browser and check for application compatibility	21H2	Operating System
Windows 11, 64bit	Run the browser and check for application compatibility	21H2	Operating System

3.3 Productivity and Support Tools

The following tools will be employed to support the test process for this *Test Plan*.

Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Defect Tracking	MS Excel 365	MS	2211
Test Plan preparation	MS Docs 365	MS	2211
Automation Testing	Katalon Studio	Katalon LLC	8.5 or later

4. Responsibilities, Staffing, and Training Needs

4.1 People and Roles

This table shows the staffing assumptions for the test effort.

Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test Manager	1 Nguyễn Thị Ánh Tuyết	Provides management oversight. Responsibilities include: <ul style="list-style-type: none"> planning and logistics agree mission identify motivators acquire appropriate resources present management reporting advocate the interests of test evaluate effectiveness of test effort

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Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Tester	5 (All members) Nguyễn Thị Ánh Tuyết Nguyễn Long Vũ Ngô Thanh Lực Lê Công Hữu Lê Tấn Kiệt	Implements and executes the tests. Responsibilities include: <ul style="list-style-type: none"> • implement tests and test suites • execute test suites • log results • analyze and recover from test failures • document incidents
Test System Administrator	2 Nguyễn Thị Ánh Tuyết Ngô Thanh Lực	Ensures test environment and assets are managed and maintained. Responsibilities include: <ul style="list-style-type: none"> • administer test management system • install and support access to, and recovery of, test environment configurations and test labs