

Software Requirements Specification **(SRS)**

ADACTIN Application

Author(s): Suresh

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1.Introduction

This Software Requirements Specification (SRS) describes requirements for Adactin Operations. This SRS document describes the software functional and non-functional requirements of the Adactin System. This document is intended to be used by the members of the project team that will implement and verify the correct functioning of the system. Unless otherwise noted, all requirements specified here are high priorities and committed for release.

Reference Documents

Document Title	Version No.

2.PURPOSE OF THE SYSTEM

To search a required hotel across different location. User is able to book a hotel and if required booking can be canceled by providing proper reason.

Scope of the System

1. New user Registration
2. Login into application
3. Search a Hotel
4. Select a hotel
5. Booking a hotel
6. Order Id generation
7. Cancel order
8. Logout

3.NUMBER OF MODULES

The system after careful analysis has been identified to be presented with the following modules:

The Modules involved are

1. New User Registration
2. Login
3. Search Hotel

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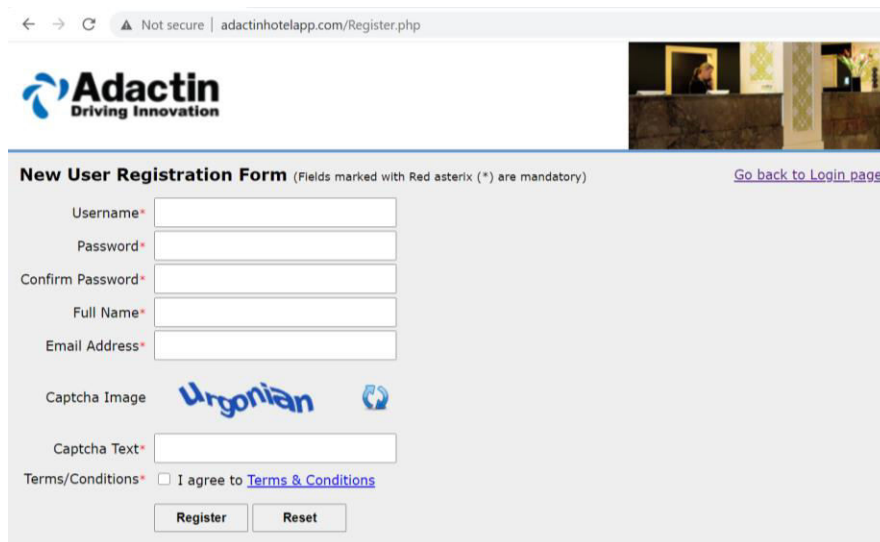
4. Select Hotel
5. Book Hotel
6. Order Generation
7. Booked Itinerary

3.1 New User Registration:

New user Registration is used to get login detail for the application. To start using this application first we need to complete new user registration by using below form.

Navigation :

Launch Browser → Enter url → click on **New user Register Here** link



Enter all the required fields and click on Register button. After some time we need to receive an email from admin team with login detail.

3.2 Login :

This module is used to login into application by using valid login details. In case of user entered invalid login details, proper error message needs to be displayed.

Navigation : Launch Browser → Enter url :

1. Login page should be open.
2. In Login Page Username and password Textboxes should be displayed along with the login button.
4. Enter valid username and password.
5. Press Log in Button.
6. Search Hotel page needs to be displayed

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→ Login Page should be displayed with required fields as below:

Fields information:

Company Logo, images, Welcome text, Login fields , links ,Header and footer .

Adactin Launches The Adactin Hotel App!

Adactin HOTEL APP
Explore the world of mobile software testing.

GET IT ON Google Play | Get it now for iOS

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Existing User Login - Build 1

Username
Password
[Forgot Password?](#)

[New User Register Here](#)

Important Note:
Hotel Application has 2 builds:

- **Build 1** ♦ Has been developed with known defects. Thus, functional test cases and automation scripts will fail on this build.
- **Build 2** ♦ Known defects have been fixed. Thus, functional test cases and automation test scripts should pass when executed on this build. [Go to Build 2](#)

For any queries/issues please email: info@adactin.com

3.3 Search Hotel :

This module is used to search a required hotel by providing all the required inputs.

Navigation : Login into application → Search a Hotel

- 1.Login into application
- 2.Select all the required fields
- 3.Click on Search button
- 4.Select Hotel Page need to be displayed.

Welcome to Adactin Group of Hotels | Hello sureshbabu1! | [Search Hotel](#) | [Booked Itinerary](#) | [Change Password](#) | [Logout](#)

Search Hotel (Fields marked with Red asterix (*) are mandatory)

Location*
Hotels
Room Type
Number of Rooms*
Check In Date* (dd/mm/yyyy)
Check Out Date* (dd/mm/yyyy)
Adults per Room*
Children per Room

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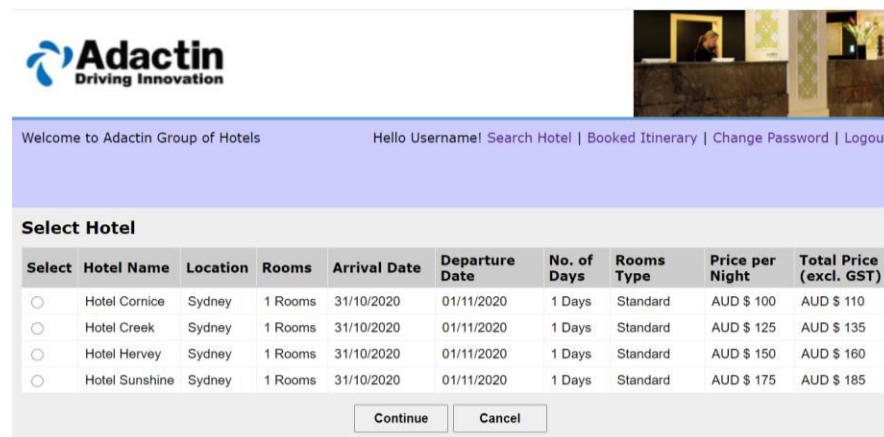
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3.4 Select Hotel :

This module is used to select a required hotel by proving all the required inputs.

Navigation : Login into application → Search a Hotel → Select a Hotel

- 1.Login into application
- 2.Select all the required fields
- 3.Click on Search button
- 4.Select a required Hotel



Select	Hotel Name	Location	Rooms	Arrival Date	Departure Date	No. of Days	Rooms Type	Price per Night	Total Price (excl. GST)
<input type="radio"/>	Hotel Cornice	Sydney	1 Rooms	31/10/2020	01/11/2020	1 Days	Standard	AUD \$ 100	AUD \$ 110
<input type="radio"/>	Hotel Creek	Sydney	1 Rooms	31/10/2020	01/11/2020	1 Days	Standard	AUD \$ 125	AUD \$ 135
<input type="radio"/>	Hotel Hervey	Sydney	1 Rooms	31/10/2020	01/11/2020	1 Days	Standard	AUD \$ 150	AUD \$ 160
<input type="radio"/>	Hotel Sunshine	Sydney	1 Rooms	31/10/2020	01/11/2020	1 Days	Standard	AUD \$ 175	AUD \$ 185



3.5 Book a Hotel :

This module is used to book a hotel by proving all the required inputs.

Navigation : Login into application → Search a Hotel → Select a Hotel → Book a hotel

- 1.Login into application
- 2.Select all the required fields
- 3.Click on Search button
- 4.Select a required Hotel
- 5.Provide all the required details
- 6.click on Book now button
- 7.Order number should be generated

← → ↻ Not secure | adactinhotelapp.com/BookHotel.php



Welcome to Adactin Group of Hotels Hello sureshbabu1! Search Hotel | Booked Itinerary | Change Password | Logout

[Back](#)

Book A Hotel

Hotel Name	<input type="text" value="Hotel Cornice"/>
Location	<input type="text" value="Sydney"/>
Room Type	<input type="text" value="Standard"/>
Number of Rooms	<input type="text" value="1 Room(s)"/>
Total Days	<input type="text" value="1 Day(s)"/>
Price per Night	<input type="text" value="AUD \$ 100"/>
Total Price	<input type="text" value="AUD \$ 110"/>
GST	<input type="text" value="AUD \$ 11"/>
Final Billed Price	<input type="text" value="AUD \$ 121"/>
First Name*	<input type="text"/>
Last Name*	<input type="text"/>
Billing Address*	<input type="text"/>
Credit Card No.*	<input type="text"/> Use 16 digit Dummy Data
Credit Card Type*	- Select Credit Card Type -
Expiry Date*	- Select Month - - Select Year -
CVV Number*	<input type="text"/>

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3.6 Order Generation:

This module is used to refer order number had been generated.



Navigation : Login into application → Search a Hotel → Select a Hotel → Book a hotel → Order number should be auto-generated.

- 1.Login into application
- 2.Select all the required fields
- 3.Click on Search button
- 4.Select a required Hotel
- 5.Provide all the required details
- 6.click on Book now button
- 7.Order number should be auto-generated

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← → ↻ Not secure | adactinhotelapp.com/BookingConfirm.php

Welcome to Adactin Group of Hotels Hello sureshbabu! Search Hotel | Booked Itinerary | Change Password | Logout

Booking Confirmation

Hotel Name	Hotel Cornice
Location	Sydney
Room Type	Deluxe
Arrival Date	31/10/2020
Departure Date	01/11/2020
Total Rooms	1 Room(s)
Adults Per Room	1 Adult(s)
Children per Room	0 Children
Price per Night	AUD \$ 100
Total Price	AUD \$ 110
GST	AUD \$ 11
Final Billed Price	AUD \$ 121

Final Billed Price	AUD \$ 121
First Name	suresh
Last Name	
Billing Address	Hyderabad
Order No.	9DX8LV5R35

Search Hotel My Itinerary Logout

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3.7 Booked Itinerary:

This module is used to confirm booking details by providing valid order number.

Navigation: Login into application → Click on Booked Itinerary link → Enter valid Order number.

1. Login into application
2. Click on Booked Itinerary link
3. Enter valid Order number

← → ↻ Not secure | adactinhotelapp.com/BookedItinerary.php

Welcome to Adactin Group of Hotels Hello sureshbabu! Search Hotel | Booked Itinerary | Change Password | Logout

Booked Itinerary

Search Order Id Go

<input type="checkbox"/>	Order Id	Cancel	Hotel Name	Location	Rooms	First Name	Last Name	Arrival Date	Departure Date	No. of Days	Rooms Type	Price per Night	Total Price (incl. GST)
<input type="checkbox"/>	99I9Y75575	Cancel 99I9Y75575	Hotel Sunshine	Brisbane	1 Rooms	sai	kiran	1/2/2020	5/3/2020	33 Days	Double	AUD \$ 275	AUD \$ 999
<input type="checkbox"/>	RTP34Z2I88	Cancel RTP34Z2I88	Hotel Creek	Melbourne	2 Rooms	890**gh	ghh((05/01/2020	06/01/2020	1 Days	Standard	AUD \$ 125	AUD \$ 149

4. Functional components of the project

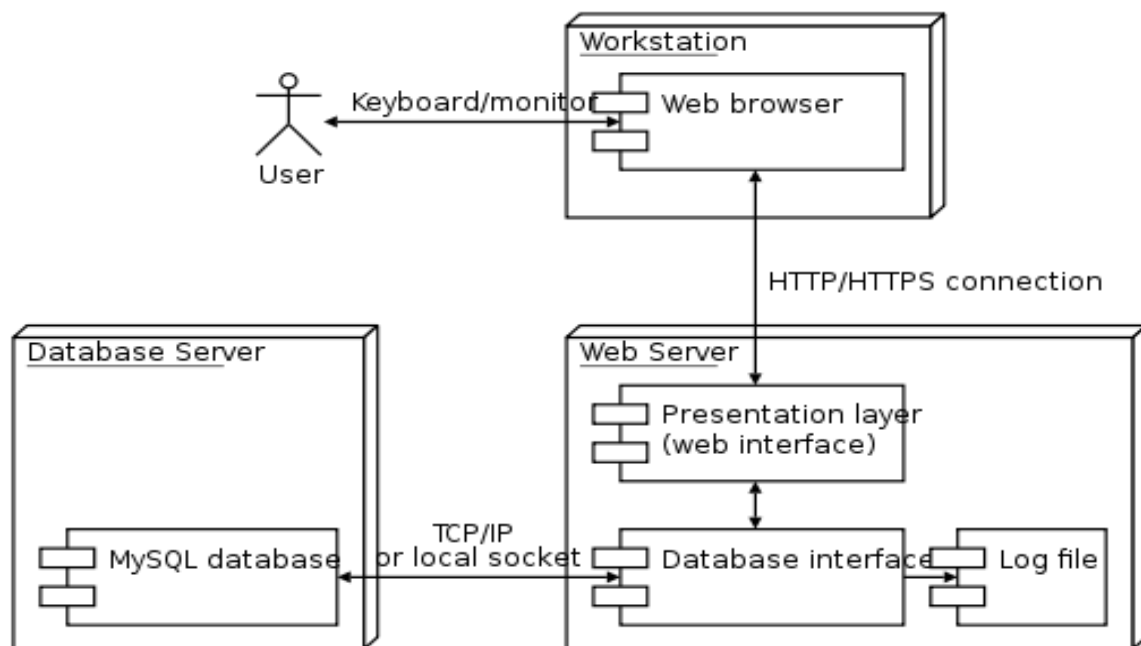
Following are the functional needs of the system. More functionality can be added to enhance the application.

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1. user must have a valid User Id and password to login to the system
2. If a wrong password is given thrice in succession, that account will be locked and the customer will not be able to use it. When an invalid password is entered a warning is given to the user that his account is going to get locked.
3. After the valid user logs then search hotel page need to be displayed
4. User need be able to provide all the required fields
5. On clicking Search button Select Hotel page need to displayed
6. User should be able to select required hotel and On clicking on Continue button
7. User had to enter all the personal detail including payment details and On clicking book now button Order Id need to be generated
8. With the order number need to able to book confirmation details and if required need to able to cancel the booking.

5. Deployment Diagrams



6. APPLICATION DEVELOPMENT:

N-Tier Applications:

N-Tier Applications can easily implement the concepts of Distributed Application Design and Architecture. The N-Tier Applications provide strategic benefits to Enterprise Solutions. While 2-tier, client-server can help us create quick and easy solutions and may be used for Rapid Prototyping, they can easily become a maintenance and security night mare

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The N-tier Applications provide specific advantages that are vital to the business continuity of the enterprise. Typical features of a real life n-tier may include the following:

- Security
- Availability and Scalability
- Manageability
- Easy Maintenance
- Data Abstraction

The above mentioned points are some of the key design goals of a successful n-tier application that intends to provide a good Business Solution.

Definition:

Simply stated, an n-tier application helps us distribute the overall functionality into various tiers or layers:

- Presentation Layer
- Business Rules Layer
- Data Access Layer
- Database/Data Store

Each layer can be developed independently of the other provided that it adheres to the standards and communicates with the other layers as per the specifications.

This is the one of the biggest advantages of the n-tier application. Each layer can potentially treat the other layer as a 'Block-Box'.

In other words, each layer does not care how other layer processes the data as long as it sends the right data in a correct format.

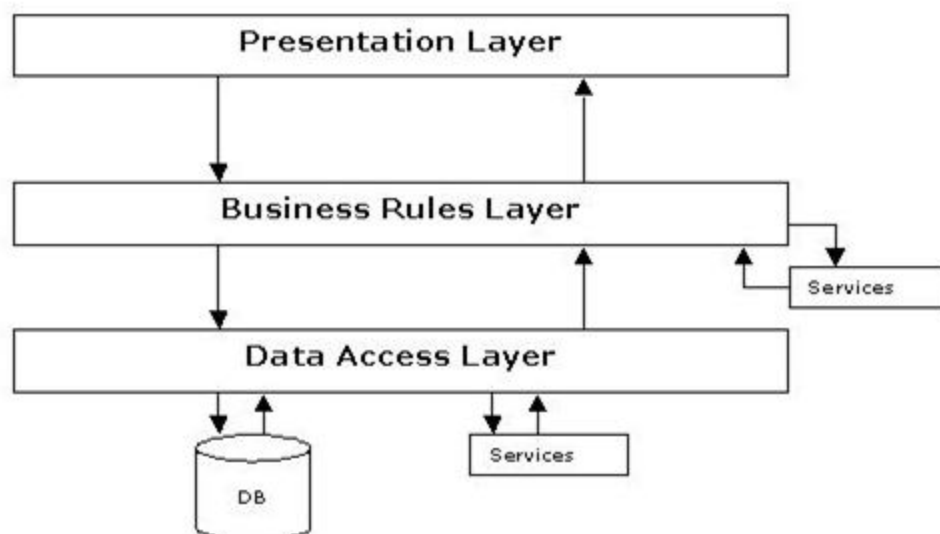


Fig 1.1-N-Tier Architecture

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1. The Presentation Layer:

Also called as the client layer comprises of components that are dedicated to presenting the data to the user. For example: Windows/Web Forms and buttons, edit boxes, Text boxes, labels, grids, etc.

2. The Business Rules Layer:

This layer encapsulates the Business rules or the business logic of the encapsulations. To have a separate layer for business logic is of a great advantage. This is because any changes in Business Rules can be easily handled in this layer. As long as the interface between the layers remains the same, any changes to the functionality/processing logic in this layer can be made without impacting the others. A lot of client-server apps failed to implement successfully as changing the business logic was a painful process.

3. The Data Access Layer:

This layer comprises of components that help in accessing the Database. If used in the right way, this layer provides a level of abstraction for the database structures. Simply put changes made to the database, tables, etc do not affect the rest of the application because of the Data Access layer. The different application layers send the data requests to this layer and receive the response from this layer.

4. The Database Layer:

This layer comprises of the Database Components such as DB Files, Tables, Views, etc. The Actual database could be created using Mysql, Oracle etc.

In an n-tier application, the entire application can be implemented in such a way that it is independent of the actual Database. For instance, you could change the Database Location with minimal changes to Data Access Layer. The rest of the Application should remain unaffected

7. PERFORMANCE REQUIREMENTS:

Performance is measured in terms of the output provided by the application. Requirement specification plays an important part in the analysis of a system. Only when the requirement specifications are properly given, it is possible to design a system, which will fit into required environment. It rests largely in the part of the users of the existing system to give the requirement specifications because they are the people who finally use the system. This is

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because the requirements have to be known during the initial stages so that the system can be designed according to those requirements. It is very difficult to change the system once it has been designed and on the other hand designing a system, which does not cater to the requirements of the user, is of no use.

The requirement specification for any system can be broadly stated as given below:

- The system should be able to interface with the existing system
- The system should be accurate
- The system should be better than the existing system

The existing system is completely dependent on the user to perform all the duties.

8. Specifications:

Software Specifications

- **Operating System** : Windows
- **Database Server** : MySQL
- **Client** : Java Script
- **Tools** : Xampp
- **User Interface** : HTML with Ajax
- **Code Behind** : PHP
- **Web server** : Apache

Hardware Specification:

- **Processor** : Dual Core
- **RAM** : 1GB Ram
- **Hard Disk** : PC with 20GB

Approvals:

Name	Signature	Date

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