**CHAPTER 2**

**REQUIREMENT SPECIFICATION**

**2.1 Functional Requirements**

Functional requirement defines a function of a [system](https://en.wikipedia.org/wiki/System) or its component, where a function is described as a specification of behavior between outputs and inputs. Functional requirements may involve calculations, technical details, data manipulation and processing, and other specific functionality that define what a system is supposed to accomplish.

The functional requirements of the given project include admin login, user login. If the user have not yet registered, then they have to register in the database. The user after registration books a room in their desired hotel.

**2.2 Non-Functional Requirements**

The website should load faster and should be responsive. If any problem is found, then it should show informative error messages. The user interface should be simple and easy to understand.

**Usability**

This section includes all of those requirements that effect usability.

* We get the response within seconds.
* The software must have a simple, user-friendly interface so customers and admin can save time and confusion.
* As the project is made using php, it has fast loading time then the website made using any other language.

**Reliability**

* The system is more reliable because of the qualities that are inherited from the chosen platform php. The code built by using php is more reliable.

**Supportability**

* The system is supported on a wide range of hardware and any software platform. This application is being developed using xamp, hence it is extremely portable.

**Implementation**

* The system is implemented in web environment. The apache tomcat is used as the web server and windows 10 is used as the platform.

**Interface**

* The user interface is based on the web browser. The application is developed using HTML.
* The Interface design is aimed at a flexible front-end communication to provide the user with clear information in navigating a user-friendly interface is planned.

**2.3 Hardware Requirements**

* 1.5 GHz Intel Pentium Processor (or equivalent).
* 2GB of system memory (4GB recommended).
* At least 4 GB free disk space for xampp server installation.
* PC or mobile devices with browser support (Google chrome Recommended).
* A high-speed connection to the Internet.

**2.4 Software Requirements**

* MySQL.
* Chrome, Firefox, Edge or any other supported browsers.
* Xampp server.