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**Course:** Software Architecture

**Section:** BM

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## Online Hotel Room Booking System

### 1. Function Requirement

#### a. Checking Availability:

<b>Req id:</b>	R1.1.
<b>Details:</b>	The page should have a field for arrival and departure dates selection.
<b>Prioritization:</b>	High

<b>Req id:</b>	R1.2.
<b>Details:</b>	The page should have an option for selecting room type.
<b>Prioritization:</b>	High

<b>Req id:</b>	R1.3.
<b>Details:</b>	The page should have an option for selecting number of rooms.
<b>Prioritization:</b>	High

#### b. Customer Details:

<b>Req id:</b>	R1.1.
<b>Details:</b>	Page should display text field for First name, Last name, Telephone number, E-mail address.
<b>Prioritization:</b>	High

<b>Req id:</b>	R1.2.
<b>Details:</b>	Page should display button to previous page with previous page name on the button.
<b>Prioritization:</b>	High

<b>Req id:</b>	R1.3.
<b>Details:</b>	Page should display cancel button which will redirect the customer to hotel home page.
<b>Prioritization:</b>	High

#### c. Payment Details:

<b>Req id:</b>	R1.1.
<b>Details:</b>	Page should display Total price of selected room for selected number of nights.
<b>Prioritization:</b>	High

## 2. Non Function Requirement

### a. Performance:

<b>Req id:</b>	R1.1.
<b>Details:</b>	Every booking submission & modification should be updated in Hotel's common database within 10 seconds after each submission & modification activity.
<b>Prioritization:</b>	High

<b>Req id:</b>	R1.2.
<b>Details:</b>	Results for cross checking of availability of rooms in internal database and customer's choice shall be in 5 seconds.
<b>Prioritization:</b>	High

<b>Req id:</b>	R1.3.
<b>Details:</b>	Webpage UI load time should be within 2 secs.
<b>Prioritization:</b>	High

### b. Security:

<b>Req id:</b>	R1.1.
<b>Details:</b>	Customer's personal details shall be encrypted.
<b>Prioritization:</b>	High

<b>Req id:</b>	R1.2.
<b>Details:</b>	Customer's credit card details shall be deleted from database after checkout date.
<b>Prioritization:</b>	High

### c. Portability:

<b>Req id:</b>	R1.1.
<b>Details:</b>	System shall be accessible on Google Chrome, Firefox, Safari, Opera and Internet explorer.
<b>Prioritization:</b>	High

### d. Maintainability:

<b>Req id:</b>	R1.1.
<b>Details:</b>	System failure recovery shall be within 40 mins.
<b>Prioritization:</b>	High



### 3. Business Rules:

#### a. Room Type:

- 1 single room can accommodate either 1 adult or 1 child.
- 1 double room can accommodate 2 adults, 2 children or 1 adult and 1 child.