

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	03 October 2022
Team ID	PNT2022TMID48423
Project Name	Smart Solutions For Railways
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Unique accounts	<ul style="list-style-type: none"><li>• Every online booking needs to be associated with an account</li><li>• One account cannot be associated with multiple users</li></ul>
FR-2	Booking options	<ul style="list-style-type: none"><li>• Search results should enable users to find the most recent and relevant booking options</li></ul>
FR-3	Mandatory fields	<ul style="list-style-type: none"><li>• System should only allow users to move to payment only when mandatory fields such as date, time, location has been mentioned</li></ul>
FR-4	Synchronization	<ul style="list-style-type: none"><li>• System should consider timezone synchronisation when accepting bookings from different timezones</li></ul>
FR-5	Authentication	<ul style="list-style-type: none"><li>• Booking confirmation should be sent to user to the specified contact details</li></ul>

### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	<ul style="list-style-type: none"><li>• Search results should populate within acceptable time limits</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>• System should visually confirm as well as send booking confirmation to the user's contact</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>• System should accept payments via different payment methods, like PayPal, wallets, cards, vouchers, etc</li></ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"><li>• Search results should populate within acceptable time limits</li></ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"><li>• User should be helped appropriately to fill in the mandatory fields, incase of invalid input</li></ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"><li>• Use of captcha and encryption to avoid bots from booking tickets</li></ul>