

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

Date	15 October 2022
Team ID	PNT2022TMID04514
Project Name	Analytics For Hospital's Health-Care Data
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	Appointments	<ul style="list-style-type: none"><li>• Recurrent appointments and scheduling available time slots on a regular basis.</li><li>• Displaying the number of appointments on a given day</li><li>• After the patient is signed in asking for a mobile number and ID to avoid any issues.</li><li>• Generating the appointment.</li><li>• Generate the bill automatically for completed appointments</li><li>• Appointment Status:<ol style="list-style-type: none"><li>1.Confirmed</li><li>2.Pending</li><li>3.Cancelled and No Reschedule</li><li>4.Cancelled and Reschedule</li><li>5.No Show</li><li>f.Completed</li></ol></li></ul>
FR-2	Clinical Care	<ul style="list-style-type: none"><li>• The admission for the patient must be examined thoroughly and patients who comes in a critical condition should be given treatment immediately.</li><li>• Enhanced and improved reliability on reporting the data.</li><li>• Access medication history from external sources and analyze the drugs(medicines) to be given.</li><li>• Predicting the length of stay of inpatients.</li></ul>
FR-3	Patient Records	<ul style="list-style-type: none"><li>• A Proper record or documentations need to be maintained regarding the patients who are all consulted and detailed analysis of their health details.</li><li>• The records must be easily accessible when required</li><li>• Digital records are more efficient and time saving.</li></ul>
FR-4	Bed Requirements	<ul style="list-style-type: none"><li>• Analyzing and monitoring of beds which are required are the most important task.</li></ul>

		<ul style="list-style-type: none"> <li>Using flawless systems for accurately tracking the availability of beds.</li> </ul>
FR-5	Providing insights of dataset	<ul style="list-style-type: none"> <li>Raw data collection and sharing of data systems are essential factors in hospital management.</li> <li>Provide dataset without human error.</li> </ul>
FR-6	Discharge Summary	<ul style="list-style-type: none"> <li>Unrestricted patients have complete discharge or deferred discharge.</li> <li>Restricted patients have Conditional discharge or absolute discharge</li> <li>They have to be mentioned in the discharge summary.</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>	Usable systems are straightforward to use by as many people as possible, both in case of either end users or administrators to view the hospital records when needed.
NFR-2	<b>Security</b>	Patient Verification: To verify the Patient by using mobile number and patient ID.
NFR-3	<b>Reliability</b>	A high reliable system has a lower risk of errors and process failures that can cause patients harm.  Analyze the current trend and work accordingly to solve the problem in an efficient manner.  Being software as a service, HMS is highly resilient to any technology disruptions, downtime, or crashes experienced by other technology systems.
NFR-4	<b>Performance</b>	Quick Response time: Providing acknowledgement in minimal time about the patient information. To ensure that the guidelines and accessibilities are followed.
NFR-5	<b>Availability</b>	Hospital management should Provide all the available facilities to the patients when it is needed.  All the prescribed medicines should be easily available to the patients.
NFR-6	<b>Scalability</b>	An integrated system can be customized and are developed to control all hospital operations like patient details, appointment booking, billing, drug management, discharge.