

**Solution Requirements (Functional & Non-functional)**

Date	16 October 2022
Team ID	PNT2022TMID28169
Project Name	ANALYTICS FOR HOSPITAL HEALTH CARE
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 the available time slots in a regular basis.</li><li>➤ Showing the number of appointments on given day.</li><li>➤ After sign in asking for a ID and phone number to avoid any issues.</li><li>➤ Generating appointment.</li><li>➤ Supporting group appointments and automatically creating a billing charge for completed appointments.</li><li>➤ Appointment Status:<ul style="list-style-type: none"><li>a. Pending</li><li>b. Confirmed</li><li>c. Cancelled; No Reschedule</li><li>d. Cancelled; Reschedule</li><li>e. No Show</li><li>f. Completed</li></ul></li></ul>
FR-2	Clinical Care	<ul style="list-style-type: none"><li>➤ The admission of the patient must be examined properly and patients who comes in a critical position should be given immediate treatment.</li><li>➤ Enhanced and improved reliability on reporting the data.</li><li>➤ Access medication history from external sources (ex. Surescripts).</li><li>➤ Predict 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 all consulted and detailed analysis of their health details.</li> <li>➤ It should be easily accessible when required.</li> <li>➤ Accessible as Standalone function, as well as easily accessible from Progress Note and Evaluation activities.</li> <li>➤ Digital records will be 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> <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 and systems are essential factors in hospital management.</li> <li>➤ According to these data in appropriate measures can be taken.</li> <li>➤ Providing data set without human error.</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>➤ 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.</li></ul>
NFR-2	<b>Security</b>	<b>Patient identification :</b> <ul style="list-style-type: none"><li>➤ To recognize and analyze the patient perfectly.</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>➤ Understanding the current trend and working on to it to solve the problem in an efficient manner.</li><li>➤ Being software as a service, HMS is highly resilient to any technology disruptions, downtime, or crashes experienced by other technology systems.</li></ul>
NFR-4	<b>Performance</b>	<b>Response time:</b> <ul style="list-style-type: none"><li>➤ Providing acknowledgment in minimal time about the patient information.</li></ul> <b>Comfortability:</b> <ul style="list-style-type: none"><li>➤ To ensure that the guidelines and accessibilities are followed.</li></ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"><li>➤ Better coordination with the hospital management to provide all its resources accessible when needed.</li><li>➤ Accessibility of all medical facilities.</li></ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"><li>➤ Make sure that the work is done in more efficient way with the appropriate resources.</li><li>➤ Make complex decisions understandable with proper data.</li></ul>