# 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 | • Recurrent appointments and scheduling available time slots on a regular basis.<br>• Displaying the number of appointments on a given day<br>• After the patient is signed in asking for a mobile number and ID to avoid any issues.<br>• Generating the appointment.<br>• Generate the bill automatically for completed appointments<br>• Appointment Status:<br>  1.Confirmed<br>  2.Pending<br>  3.Cancelled and No Reschedule<br>  4.Cancelled and Reschedule<br>  5.No Show<br>  6.Completed |
| FR-2 | Clinical Care | • The admission for the patient must be examined thoroughly and patients who comes in a critical condition should be given treatment immediately.<br>• Enhanced and improved reliability on reporting the data.<br>• Access medication history from external sources and analyze the drugs(medicines) to be given.<br>• Predicting the length of stay of inpatients. |
| FR-3 | Patient Records | • A Proper record or documentations need to be maintained regarding the patients who are all consulted and detailed analysis of their health details.<br>• The records must be easily accessible when required |
| FR-4 | Bed Requirements | • Analyzing and monitoring of beds which are required are the most important task. |

| | | • Using flawless systems for accurately tracking the availability of beds. |
|---|---|---|
| FR-5 | Providing insights of dataset | • Raw data collection and sharing of data systems are essential factors in hospital management.<br>• Provide dataset without human error. |
| FR-6 | Discharge Summary | • Unrestriced patients have complete discharge or deferred discharge.<br>• Restricted patients have Conditional discharge or absolute discharge<br>• They have to be mentioned in the discharge summary. |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | 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 | **Security** | Patient Verification:<br>  To verify the Patient by using mobile number and patient ID. |
| NFR-3 | **Reliability** | A high reliable system has a lower risk of errors and process failures that can cause patients harm.<br><br>Analyze the current trend and work accordingly to solve the problem in an efficient manner.<br><br>Being software as a service, HMS is highly resilient to any technology disruptions, downtime,or crashes experienced by other technology systems. |
| NFR-4 | **Performance** | Quick Response time:<br>  Providing acknowledgement in minimal time about the patient information.<br>  To ensure that the guidelines and accessibilities are followed. |
| NFR-5 | **Availability** |  Hospital management should Provide all the available facilities to the patients when it is needed.<br><br>  All the prescribed medicines should be easily available to the patients. |
| NFR-6 | **Scalability** | An integrated system can be customized and are developed to control all hospital operations like patient details,appointment booking,billing,drug management,discharge. |