# Solution Requirements (Functional & Non- functional)

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID40633 |
| Project Name | ANALYTICS FOR HOSPITAL HEALTH CARE |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Appointments | * Recurrent appointments and scheduling the available time slots in a regular basis. * Showing the number of appointments on given day. * After sign in asking for a ID and phone number to avoid any issues. * Generating appointment. * Supporting group appointments and automatically creating a billing charge for completed appointments. * Appointment Status:   1. Pending   2. Confirmed   3. Cancelled; No Reschedule   4. Cancelled; Reschedule   5. No Show   6. Completed |
| FR-2 | Clinical Care | * The admission of the patient must be examined properly and patients who comes in a critical position should be given immediate treatment. * Enhanced and improved reliability on reporting the data. * Access medication history from external sources (ex. Surescripts). * Predict the length of stay of inpatients. |

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| FR-3 | Patient Records | * A Proper record or documentations need to be maintained regarding the patients who all consulted and detailed analysis of their health details. * It should be easily accessible when required. * Accessible as Standalone function, as well as easily accessible from Progress Note and Evaluation activities. * Digital records will be more efficient and time saving. |
| 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 and systems are essential factors in hospital management. * According to these data in appropriate measures can be taken. * Providing data set without human error. |

# Non-functional Requirements:

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

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| **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 identification** :   * To recognize and analyze the patient perfectly. |
| NFR-3 | **Reliability** | * Understanding the current trend and working on to it 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 | **Performance** | **Response time:**   * Providing acknowledgment in minimal time about the patient information.   **Comfortability:**   * To ensure that the guidelines and accessibilities are followed. |
| NFR-5 | **Availability** | * Better coordination with the hospital management to provide all its resources accessible when needed. * Accessibility of all medical facilities. |
| NFR-6 | **Scalability** | * Make sure that the work is done in more efficient way with the appropriate resources. * Make complex decisions understandable with proper data. |