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Hospital System

Functional Requirements:

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| Id | Requirement | MOSCOW | Justification |
| 1 | Patients’ personal information (name , date of birth , number) | Must have | It is necessary to identify patients and contact them |
| 2 | Patient’s medical history | Must have | For further treatment and decisions |
| 3 | Doctor’s profile and speciality | Must have | To assign doctors to patients |
| 4 | Schedule appointments | Must have | To manage and organize patient visits |
| 5 | Store assigned prescriptions | Must have | To track the patient treatment |
| 6 | Record test results | Must have | To diagnosis the patient’s health |
| 7 | Billing and payment management | Must have | For financial transactions and keeping records |
| 8 | Room availability tracker | Should have | Optimize the hospital’s resources allocation |
| 9 | Insurance details | Should have | We use it for billing |
| 10 | Record procedures and its outcomes | Should have | For comprehensive medical records |
| 11 | Staff work schedule | Should have | To have smooth operation and staff management |
| 12 | Reports on patient statistics and hospital usage | Could have | Useful in administrative decisions |
| 13 | Emergency contact info for patients | Must have | For urgent and critical scenarios |
| 14 | Data backup and recovery | Must have | Protects against data loss |
| 15 | Support concurrent access in the system | Must have | For multiple staff members to use the system at the same time |
| 16 | Role based access | Must have | To ensure privacy and security |
| 17 | Support integration with other labs | Could have | For data exchange and efficiency |
| 18 | Patient discharge and follow-up plans | Must have | Ensures proper documentation and care after the patient is discharged |
| 19 | Emergency cases prioritization | Must have | For managing patient treatment order in emergencies |
| 20 | Patient consent for data sharing | Could have | For legal compliance and patient privacy |

Non-Functional Requirements:

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| Id | Requirement | MOSCOW | Justification |
| 1 | Data security and patient confidentiality | Must have | To follow health regulations and protect patient data |
| 2 | High availability | Must have | The system must be accessible all the time for continuous patient care |
| 3 | Scalability | Should have | It should handle increasing data as the hospital grows |
| 4 | Performance and fast response | Must have | Timely access for patient info during treatment |
| 5 | Data integrity | Must have | Ensures reliable medical records without errors |