**E-channeling System**

**Requirements**

1. **Functional Requirements**

### Doctor

1. Registration

* Doctors should be able to register on the system by providing:

UserID,

Name,

Password,

Phone,

Specialization.

1. Login and Profile Management

* Doctors should be able to login with valid credentials (UserID, Password).
* Doctors should be able to update their personal data (Phone, Specialization).

1. Schedule Management

* Doctors can view all their schedules.
* Doctors can add, update, or delete channeling schedules.

Each schedule must include:

Doctor’s ID, Channeling Date, Time, Number of patients per schedule

Patient

1. Registration

* Patients should be able to register on the system by providing:

NIC,

Name,

Phone,

Password.

1. Login and Profile Management

* Patients should be able to log in with valid credentials (NIC, Password).
* Patients should be able to update their personal information.

1. Appointment Booking

* Patients should be able to view available channeling schedules.
* Patients should be able to make an appointment.
* Each appointment should not exceed the patient count per the channeling schedule.

## **2. Non-Functional Requirements**

1. Data Persistence

* All data should be persistent and saved in a database.

1. User Interface

* User interfaces should be created using Java Servlets or Java Server Pages (JSP).