

## 1. LibBook

### Business Rules:

#### 1. Membership Introduction:

- LibBook will introduce a membership system that allows members to access their services.
- There are three initial types of memberships: Corporate, Student, and Individual.
- New membership types may be introduced in the future.

#### 2. Membership Fees:

- Corporate and Individual memberships require a membership fee.
- Student memberships are free of charge.
- Members with Corporate and Individual memberships are entitled to specific privileges.

#### 3. Membership Type Changes:

- Members can request to change their membership type.
- Changes to membership type are only allowed if sufficient justification is provided.

### Constraints:

#### 1. Membership Fees:

- Fees are mandatory for Corporate and Individual memberships.
- No fees are associated with Student memberships.

#### 2. Membership Privileges:

- Corporate and Individual members receive certain privileges not available to Student members.
- Privileges must be clearly defined and consistently applied.

#### 3. Membership Type Change:

- Membership type can be changed only upon providing a valid justification.
- The process for reviewing and approving membership changes must be clearly defined.

#### 4. Introduction of New Membership Types:

- New membership types can be added as the business evolves, but they must be integrated into the existing system without disrupting current operations.

## 2. Star Care Hospital

### Business Rules:

#### 1. Doctor Registration:

- Every doctor registered with Star Care Hospital must be assigned a unique ID.
- The unique ID for doctors starts with the letters "DC".

#### 2. Doctor Experience Requirement:

- All doctors associated with Star Care Hospital must have a minimum of seven years of working experience.

**3. Patient Registration:**

- Every patient is required to register with the hospital on their first visit.
- Upon registration, each patient is assigned a unique patient number starting with the letters "PT".

**Constraints:**

**1. Doctor ID Format:**

- The ID for doctors must begin with "DC" followed by a unique identifier (e.g., numbers or a combination of letters and numbers).

**2. Doctor Experience:**

- Doctors must have a minimum of seven years of working experience to be eligible for registration with the hospital.
- This experience requirement must be verified before registration.

**3. Patient ID Format:**

- The ID for patients must start with "PT" followed by a unique identifier.
- Each patient's ID must be unique to avoid duplication in records.

**4. Mandatory Registration:**

- Registration is mandatory for all patients on their first visit.
- The registration process must ensure that all necessary patient information is captured and stored securely.