**Hospital Management System**

***Proper CareHospitals***  is a chain of Hospitals present across the cities of India, which provide health services in different cities in India. Recently this concern decides to introduce web based Hospital booking system.

***The purpose of the System***

**The** followings are the important Service & modules of the system

1. Ward Service
2. Ward addition & fare fixation (modification of fare & capacity of ward) .
3. Doctor Service
4. Doctor addition & fees fixation (modification of fees).
5. Patient Service
6. Patient Admission.
7. Patient Medical & Medicine Expenses calculation
8. Patient Bill generation.

***Scope of the System***

The details of each modules are as follows:

1. **Ward Addition**:- Ward is maintained as follows:-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ward\_ID** | **Ward\_Name** | **Beds** | **Available** | **Fare/Day** |
| W101 | ICU | 50 | 10 | 2500 |
| W102 | Plastic Surgery | 30 | 15 | 1500 |
| W103 | Maternity | 45 | 5 | 1250 |

1. **Doctor Addition:-** Doctor information is maintained as follows:-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Doctor\_ID** | **Doctor\_Name** | **Specialization** | **Fee** | **Patients** |
| D1001 | Michael Edwards | Heart | 2000 | 10 |
| D1002 | Robert Bruce | ENT | 1000 | 15 |
| D1003 | Rogers Moore | General | 750 | 18 |
| D1004 | Clara Richards | Gynaecology | 1500 | 3 |

Doctor id is auto generated during new Doctor addition. A Doctor can attend up to 20 patients.

1. **Patient’s Admission:-** Patient Information is as follows:-

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Patient\_Number | Name | Address | Contact No | Gender | Ward\_ID | AdmissionDate | ReleaseDate | Doctor\_Id | MedicalExp |
| 124568921 | Bobb Haward | Raheja Nagar, Hyderabad | 7843567810 | Male | W101 | 03-09-2018 |  | D1001 | 5000 |
| 178461116 | Daisy Miller | Anna Nagar,Chennai | 0443245186 | Female | W303 | 06-06-2018 | 16-06-2018 | D1004 | 15000 |
| 178461115 | Tom Hawk | WhiteField, Bangalore | 849452123 | Male | W101 | 11-06-2018 | 19-06-2018 | D1002 | 10000 |
| 124566921 | John Brown | Andheri,Mumbai | 0226741245 | Male | W202 | 31-07-2018 |  | D1001 | 6500 |

|  |  |  |
| --- | --- | --- |
| DoctorVisits | Doctor Fees | Case |
| 3 | 6000 | Heart |
| 8 | 12000 | Maternity |
| 10 | 10000 | Ear Problem |
| 5 | 10000 | Heart |

This module begins with case , checking of availability of beds in ward if bed is available then allocated to the patient, availability number of bed will be reduced. A doctor of that specialization is allocated . A doctor can take care of 20 patients at a time. So patients in Doctor will also added. Release Date will be zero, Medical Expense ,Medicine expense , Doctor Visits will be zero. Patient Id will be auto generated. Admission Date will be system generated.

1. **Patient Medical & Medicine Expenses calculation:-** Both Ordinary & Super user can perform this task. The module begins with what kind of expense to enter, asks PNR as input, displays patients details, asks for input & confirmation **.** These will be reflected in final bill.
2. **Final Bill Generation : -**  This module begins with asking PNR as input, displays patients details, asks for confirmation **.** All expenses for that patient will be auto calculated which includes Bed rents, Doctor’s fees, Total Medical & Medicine expenses. Release date will be the system date. After bill generation, availability of bed will be increased and Doctor Patient’s list will be reduced.

***System Presentation & User Interface :-***

The System will be developed based on Spring Boot application.

The User interfaces will be WebPages like Jsp pages/Angular

At Back end, MySQL database will be present.