**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
3. Doctor Service
4. Doctor addition.
5. Patient Service
6. Patient Admission.
7. Patient Bill generation.

***Scope of the System***

The details of each modules are as follows:

1. **Ward** :- 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 :-** 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:-** 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 , Doctor Visits will be zero. Patient Id will be auto generated. Admission Date will be system generated.

1. **Patient Medical & Medicine Expenses calculation:-**  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 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.