**Services and Operations**

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| **Service** | **Operations** |
| Admin | Signup, Login,  add/update/delete/view all departments, register/view/approve/reject/update/delete doctors, admit/view/approve/reject/update/delete/discharge patients,  generate/download invoice pdf, view/book/approve appointments, |
| Doctor | Apply For Job, login,  view their patient details,  view their discharged patient list,  view/delete/update their appointments. |
| Patient | Create account(register), login,  view assigned doctor’s details,  view their booked appointment status (pending or approved),  book appointments,  view/download invoice pdf. |

**Domain Objects**

1. **departments**

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| **Column Name** | **Type, constraints** |
| department\_id | BigInt, auto increment, primary key |
| department\_name | Varchar, not null |
| created\_at | Timestamp, not null |
| updated\_at | Timestamp, not null |

**2. users**

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| --- | --- |
| **Column Name** | **Type, constraints** |
| user\_id | BigInt, auto increment, primary key |
| username | Varchar, not null |
| mobile | Varchar, not null |
| address | Varchar, not null |
| dp | Varchar |
| password | Varchar, not null |
| role | Varchar, not null |
| status | Varchar, not null |
| department\_id | BigInt, foreign key (ManyToOne with departments table) |
| created\_at | Timestamp, not null |
| updated\_at | Timestamp, not null |

1. **appointments**

|  |  |
| --- | --- |
| **Column Name** | **Type, constraints** |
| appointment\_id | BigInt, auto increment, primary key |
| is\_admitted | boolean, not null, default false |
| appointment\_status | Varchar |
| days\_spent | Int |
| room\_charge | BigInt |
| doctor\_fee | BigInt, not null |
| medicine\_cost | BigInt, not null |
| other\_charges | BigInt, not null |
| patient\_id | BigInt, foreign key (ManyToOne with users table) |
| doctor\_id | BigInt, foreign key (ManyToOne with users table) |
| created\_at | Timestamp, not null |
| updated\_at | Timestamp, not null |

1. **diseases\_and\_symptoms**

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| --- | --- |
| **Column Name** | **Type, constraints** |
| appointment\_id | BigInt, foreign key(ManyToOne with appointments table) |
| disease\_or\_symptom | Varchar |
| created\_at | Timestamp, not null |
| updated\_at | Timestamp, not null |