REWORK ACADEMY PROJECT

HOSPITAL MANAGEMENT SYSTEM (HMS)

**Jeffkinson** Hospital is a world renounced hospital operative in the United State, and has won rounds of awards due to its cutting-edge surgeries, medicals lab facilities and its inherently advanced management system. **Telemedika** a Startup with the dream of uniting various hospital and patient across the globe carried out extensive research on Jeffkinson hospital and is quite impressed with its computerized system design that handles day to day operation and management of the hospital. From its research, has then concluded that the app(**orbis**) should be able to perform the following:

1. Manage information of new and existing patience
2. View historical health illness and diagnostics of patient
3. Pharmaceutical billing and laboratory features.
4. Various level staff creation: **doctor**, **nurses**, **cashiers**
5. Ward management
6. Instant Patient Reporting after consultation
7. **Import / upload information of existing hospital record on its platform.**

**Actors**

* Patient
* Doctors
* Receptionist
* Nurse
* Account
* Pharmacy
* Laboratories: Pathology, Hematology, Parasitology, Virology, Taxicology, Surgical pathology, Radiology, Operation Theater.
* Admin

Technical Requirement

**Frontend**

HTML

CSS

React.JS

**Backend and API**

Node.JS

**Database**

Mongodb

Receptionist Features

**Registration**

* Information for account creation should include:
  + **first name**, **last name**, **email, password**, **date of joining**, **unique id, hospital id**
* Welcome mail should be sent to the user on account creation

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Features**

* Professional design with responsiveness
* Receptionist are responsible for creating patient
* Ensure that each patient information are unique

Patient Features

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Dashboard**

* A simple well design dashboard for patient.

**Profile**

* User should be able to view and update certain information on their profile, but **email** and **user id** should be updated
* Should contain information about **genotype** and patient **blood group**, and any other relevant information that might be needed by the hospital like **BMI** and so on

NB: very sensitive information like genotype, blood group and BMI should not be updated by user.

**Historical Report**

* User should be able to view historical report and diagnostics of doctor reports and it should be paginated
* Download of report should be available
* Report view should be responsible on mobile screen

**Appointment**

* User should be able to view appointment scheduled by a doctor and other previous appointment

**Doctor List**

* Information and image of doctors that as attended to patient

**Features**

* Professional design with responsiveness
* Each patient should have a unique id to identify them across the system
* History record of patient should be made available and downloadable
* User should be able to logout of the system

Doctor Features

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Dashboard**

* A simple well design dashboard for doctor information

**Appointment**

* Create and manage appointment for various patient

**Historical Report**

* Doctor should be able to view historical report patient and should be paginated
* Download of report should be available
* Report view should be responsible on mobile screen

**Medication**

* Create medication and prescription for patient
* View medication and prescription for patient
* View medication and prescription history of patient

**Profile**

* Doctor should be able to update profile information similarly, certain information should not be updated

**Features**

* User should be able to use patient id to search patient record

Nurse Features

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Allotment**

* Create allotment of bed, ward, cabin for patient
* View Allotment and available wards and cabins

**Profile**

* Nurse should be able to manage own profile

Pharmacist Admin Features

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Medicine**

* Manage Medicine
* Keep records of hospital stock medicines and status
* Provide medication to prescriptions
* Assign prescription to patient

**Profile**

* User should be able to manage own profile

**Features**

* User should be able to find patient by id
* Inventory system should be created for the medicine in the hospital

Pharmacist Features

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Medicine**

* Provide medication to prescriptions
* Assign prescription to patient

**Profile**

* User should be able to manage own profile

**Features**

* User should be able to find patient by id

Account Features

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Profile**

* User should be able to manage own profile

**Features**

* User should be able to find patient by id
* Connect to payment gateway to process patient payment
* Create invoice for payment
* Order invoice for patient
* Watch payment history of patients

Admin Features

**Login**

* Log in using a valid email and password
* Recover the username / password using forgot password strategy

**Dashboard**

* A simple well design dashboard for admin information

**Profile**

* User should be able to manage own profile

**Department / Laboratory**

* Manage department such as
  + Cardiology, Ward, Pathology, Hematology, Parasitology, Virology, Taxicology etc.
  + The field should include the **name**, **description** and any other field

**Employee**

* Manage employee such as doctor, nurse, accountant and other employee
* Include employee to department

**Medicine**

* Manage Medicine
* Keep records of hospital stock medicines and status
* Provide medication to prescriptions
* Assign prescription to patient

**Patient**

* View patient
* View patient payment detail
* Delete user information
* Find patient by patient id
* Filter patient information by gender, blood group, genotype
* View patient diagnostics

**Bed Allotment / Theatre**

* Create and manage bed allotment

**Appointment**

* View doctor appointment
* View patient appointment
* Cancel appointment