

**COURSE TITLE: WEB DESIGN AND TECHNOLOGIES**

**COURSE CODE: ICT 233**

**LECTURER: DR MAXWELL DORGBEFU JNR**

|  |  |
| --- | --- |
| **NAME** | **INDEX NUMBER** |
| JOSEPH SANSAH | 5230100161 |
| FRANCIS NYANTAKYI | 5230100162 |
| EMMANUEL MARTEY LAWEH | 5230100163 |
| ROSELYN ASANTE TWENEBOAH | 5230100164 |
| HICKMAH MOHAMMED | 5230100165 |
| LAWRENCE ABOAGYE | 5230100166 |
| ROSE DORSUNTEY | 5230100167 |
| MANASSEH ABAIDOO | 5230100168 |
| AUGUSTINE MARFO | 5230100169 |
| VERA ASARE KONADU | 5230100170 |

**DOTORS BOOKING APPOINTMENT WEB APP (DOCUMENTATION)**

A responsive and user-focused web application that connects users with healthcare professionals and provides an integrated medical appointment booking system through a central dashboard.

**LOADING SCREEN**

* On first launch, the website displays a loading screen for **3 seconds** before rendering the authentication homepage.
* This improves perceived performance and enhances the user experience during initial resource loading.

**AUTHENTICATION**

* **Create Account**
* **Login** (required to get access the dashboard and booking features)
* User session and account information are stored securely in **localStorage**

After creating an account, users must log in from the homepage to gain access to the dashboard, doctor search, and appointment booking.

**HOMEPAGE FEATURES**

* **Navigation bar**( keyboard navigator and scroll)
* **Search Bar:** Enables users to search for specific medical fields (e.g., Cardiologist, Dentist) to verify the availability of specialists on the platform.
* **Field Section:** Displays all available medical specialties. Linked directly to the search feature.
* **About Page:** Provides information about the app’s mission, purpose, and functionality.
* **Testimonials Section:** Integrated with **Swiper.js** to display user reviews in an interactive carousel format.
* **Footer Section:**
  + Lists organizations that support the foundation
  + Provides contact numbers for users who wish to donate.

**DASHBOARD FEATURES**

Accessible only after login, the dashboard includes the following:

* Book medical appointments
* View recent appointments
* Access medicinal prescriptions
* Submit feedback to the development team (via **EmailJS**)
* Calender
* Health Overview
* Edit user profile
* Change password
* Theme toggle (light/dark mode)
* View data visualizations and charts (via **Chart.js**)
* Secure logout

**DOCTOR SEARCH & BOOKING**

Doctor cards display:

* Doctor image
* Name
* Specialization
* Affiliated hospital
* Star rating
* Availability (dot indicator)
* Book Now button

Users can filter doctors by specialty through the homepage search.

**Usability Features**

* Fully responsive design for all screen sizes (mobile, tablet, desktop)
* Smooth navigation and transitions
* Persistent login state via **localStorage**

**Security Functionalities**

* Route protection for authenticated pages
* Secure logout function clears sensitive user data
* Validation on all user input forms (sign-up, login, feedback)
* Limited access to dashboard and booking features unless logged in

**Feedback System**

A feedback form is available in the dashboard, allowing users to send comments or report issues using **EmailJS**.

**Data Visualization**

Charts and statistical graphs are included in the dashboard using **Chart.js** to display:

* Appointment statistics
* Cancellations of appointments
* Reschedule of appointments

**MANAGEMENT DASHBOARD DOCUMENTATION**

The **Management Dashboard** in DOC's POINT is a centralized web-based interface tailored for only administrators to efficiently handle healthcare operations.

### **Key Functionalities**

#### 1. **Authentication**

* **Login & Signup:** Users must create an account and log in to access the dashboard.
* **LocalStorage Usage:** Account and session data are temporarily stored in the browser’s localStorage for seamless access.
* **Logout:** Ends the session and clears stored credentials securely.

#### 2. **Dashboard Overview**

* Displays essential metrics using **Chart.js** for a visual summary of appointments, doctors, and patients.

#### 3. **Doctor Management**

* Add, update, or delete doctor profiles.
* Assign specializations, hospitals, and availability.

#### 4. **Profile & Security Settings**

* **Profile Editing:** Update administrator details.
* **Change Password:** Secure password update functionality.
* **Theme Toggle:** Switch between light and dark themes.

## Tech Stack

The Health Consultant Web App was built using the following technologies:

### **Frontend**

* **HTML** – Semantic and structured markup
* **CSS**– Custom styling with media queries for responsiveness
* **JavaScript** – Core logic and interactivity
* **Chart.js** – For rendering data visualizations in the dashboard
* **Swiper.js** – For interactive testimonial sliders
* **Boxicons** – For UI icons and indicators
* **SVG Illustration**

### **UI/UX Design**

* **Google Fonts** – For modern and readable typography
* **Pinterest** – Source of design inspiration and images
* **CSS Animations** – For smoother transitions and effects
* **Responsive Design** – Optimized layout for mobile, tablet, and desktop

### **Authentication & Storage**

* **localStorage** – To securely store user login state and account info

### **Email & Feedback**

* **EmailJS** allows the application to send emails **directly from the client side** without setting up a server or backend.

**Free Plan :**  
Typically allows you to send up to **200 emails per month**.