ONLINE APPOINTMENT FOR HEALTHCARE CLINIC

Business Requirements Document (BRD)

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| --- | --- | --- | --- |
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1. **System Architecture Overview**

The system is structured as a traditional MVC (Model-View-Controller) web application. It is organized as follows:

* 1. **Frontend:** Server-rendered web pages using HTML/CSS/JavaScript using Razor syntax.
  2. **Backend:** A monolithic backend using a web framework that adheres to MVC architecture (e.g. ASP.NET Core MVC).
  3. **Database:** Microsoft SQL Server used for data persistence.
  4. **APIs:** Currently, no RESTful APIs are exposed externally.

1. **Component Breakdown**

|  |  |
| --- | --- |
| Module | Responsibility |
| Register | Allows new users (patients, doctors, staff) to create accounts. |
| Login | Authenticates users and provides role-based access to the system. |
| Appointment Booking | Allows users (patients) to view available slots and book appointments. |
| Appointment History | Enables logged-in users to view past and upcoming appointments. |
| Profile | Displays and allows editing of user information (available only after login). |
| Schedule Availability | Enables doctors to set their available times for appointments. |
| Create Schedule | Enables staff to define time slots and manage availability calendars for doctors. |
| Reports | Allows admin/staff to generate reports (e.g., total appointments, no-shows, etc.). |

1. **Data Design**

Define key data models or entities

Relationships (ERD if you want to get visual)

1. **Technology Stack**

|  |  |
| --- | --- |
| ****Layer**** | ****Technology**** |
| Frontend | HTML, CSS, JavaScript (or Razor if ASP.NET) |
| Backend | ASP.NET Core MVC (or similar MVC Framework) |
| Database | Microsoft SQL Server |
| ORM (if any) | Entity Framework or ADO.NET |
| Reporting Tools | In-app export features |
| Authentication | Form-based login with role-based access |

1. **Assumptions & Constraints**

Anything you’re intentionally simplifying or excluding

**Appendix ‘A’**

**HEADING OF APPENDIX A**