**Functional Requirements**

**3.1 Functional Requirements:**

* Patients will be able to search for dentists based on location, availability, and other criteria such as specialization
* Patients will be able to view detailed information about each dentist, including their qualifications, ratings, and reviews
* Patients will be able to schedule appointments with dentists directly through the system
* Patients will be able to manage their appointments and personal information
* Patients will be able to create child accounts for their children/minors
* Patients will be able to manage the kids account details and appointments
* Dentists will be able to update their availability and view their schedules
* Dentists will be able to manage their appointments and patients information
* Assistant will be able to manage the billing process
* Assistant will be able to manage appointments and the dentists schedule
* System should handle multiple practices and dental clinics
* Admin can manage the system users and also have access to analytics and reporting

**3.2 Non-Functional Requirements:**

* The system should be easy to use and navigate
* The system should have a high degree of security to protect patient information
* The system should be highly responsive and should have minimal load times
* The system should be accessible via multiple devices and platforms (e.g. desktop, mobile)
* The system should be able to handle a high volume of requests and users
* The system should be built using modern web technologies and follow accessibility standards
* The system should be scalable and easily maintainable for future updates and enhancements

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| --- | --- | --- | --- |
| Req# | Requirement | Comments | Reviewed and approved by |
|  | User Registration | User ID, password, phone number and other data retrieved from Government Database should be provided | Alban Hysaj  Alket Sula  Alba Gjini |
|  | User Login | Access is strict, User ID and password must be provided | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Login Failure | Assisiting user to reset their account login credentials | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Editing Information | Each user can manage/edit their personal information | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Displaying/Downloading information | Specific type of users can download information found within the account | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Role Management | Only Admins can assign roles to other users. Admin can create other Admin usersc | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Adding a ReCaptcha verification to avoid suspicious trafficking | Security | Alban Hysaj  Alket Sula  Alba Gjini |
|  | The software should have a hierarchal system with 4 levels of users:   * Admin * Dentist * Assistant * Patient | Maintaining/regulating data access | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Limited data access for each specific user, respective to their permissions | Maintaining/regulating data access | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Software sends notification before each appointment | Server Connectivity to ensure proper functionality | Alban Hysaj  Alket Sula  Alba Gjini |
|  | The software should be able to retrieve PII(Personally Identifiable Information) for each user from the older system it will be working with | Data handling/Databases | Alban Hysaj  Alket Sula  Alba Gjini |
|  | The software should not allow minor accounts to be created without an exisiting adult account | Security | Alban Hysaj  Alket Sula  Alba Gjini |
|  | Dentists, Assistants and Patients can cancel appointments at any time | Functionality | Alban Hysaj  Alket Sula  Alba Gjini |