SOFTWARE REQUIREMENTS AND SPECIFICATIONS

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PROJECT SUMMARY

This project involves the development of a license and tender management mobile application for a company specializing in healthcare technologies. The company offers a range of medical equipment, including imaging systems like MRI, X-ray machines, diagnostic tools like stethoscope etc., for healthcare facilities. The objective of the application is to manage various types of licenses such as test licenses, product licenses, manufacturing licenses, import licenses, etc., for different equipment managed by the company and to manage different tender related documents.

PURPOSE

The purpose of this application is to simplify the management of a vast number of licenses required for healthcare equipment and manage tender details. It aims to centralize license information, track expiration dates, and facilitate easy access to license documents and tender tracking. The application ensures secure storage, sharing, and accessibility of digital copies of various licenses, eliminating the need for physical documents.

SCOPE

The scope of the License Management System includes the management and organization of all license-related activities within the healthcare technology company. It covers various user roles and functionalities, ensuring secure, efficient, and accessible license management for both internal and external stakeholders.

MODULE DESCRIPTION

1. Admin:

* Login
* Add users
* Remove users
* View users
* Assign user role
* Add license and tender details
* Delete license and tender details
* Update license and tender details
* View license and tender details
* Save/Download license details
* Search or filter license and details
* Send notification
* Receive feedbacks
* System settings
* Performance monitoring

1. License Manager:

* Login
* Add license
* Remove license
* Update license
* Track expiration of license
* Send notification
* Receive notification
* View license
* Save/Download license
* Search or filter license and details

1. Internal User:

* Login
* View license details
* Save/Download license details
* Search or filter License details
* Receive notification
* Send feedback and queries

1. External User:

* Login
* View license details
* Search or filter license details
* Receive notification
* Send feedback and queries

1. Tender Manager:

* Login
* Upload tender details
* Download tender details
* Update tender details
* Delete tender details
* Send notification
* Receive notification
* View tender details
* Search or filter tender details

1. Tender Viewer:

* Login
* Search or filter tender details
* View tender details
* Send feedback and queries

1. PC & PNDT Certification Manager:

* Login
* Upload PC & PNDT certification
* Download PC & PNDT certification
* Update PC & PNDT details
* View device approval status
* Delete PC & PNDT certification details
* Send notification
* Receive notification
* View PC & PNDT details and certification
* Search or filter PC & PNDT certification details

1. PC & PNDT Viewer:

* Login
* Search or filter PC & PNDT certification details
* View PC & PNDT details and certification
* Send feedback and queries

NON-FUNCTIONAL REQUIREMENTS

Performance:

Fast response times for actions such as searching for licenses, managing documents, and processing notifications.

Usability:

Intuitive and user-friendly interface for easy navigation and access to clear information of licenses.

Security:

The app ensures the security and privacy of user information through secure authentication, encryption, and appropriate access controls.

Reliability:

The app should be reliable, with minimal downtime or service disruptions, ensuring users can access and manage licenses as needed.

Performance Optimization:

The app should be optimized to minimize resource usage (e.g., battery, data) and provide efficient performance.

SYSTEM SPECIFICATION

Hardware and software requirements for the installation and smooth functioning of this project could be configured based on the requirements needed by the component of the operating environment that works as front-end system here we suggest minimum configuration for the both hardware and software components. Working off with this software is requirements concrete on system environments. It includes two phases

* + Hardware Requirements
  + Software Requirements

Hardware Requirements:

* Memory : 4GB RAM or above
* Storage : 500MB or above
* Processor : Intel Core i3 or above
* Input Device : Mouse, Keyboard
* Output Device : Monitor

Software Requirements:

* Operating System : Windows 10 and above
* Frontend framework : Flutter
* Programming language : Dart
* Backend framework : Python Django
* Database : MySQL
* Software used : Visual Studio code, Android Studio
* Web browser : Internet Explorer/Google Chrome/Brave