

System Requirement Specification

Project – Radio3

Hospital Radiograph System

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Table of Contents

1. Introduction.....	3
1.1. Purpose.....	3
1.2. Scope	3
2. System Overview.....	3
3. Functional Requirement	4
3.1. User Authentication	4
3.2. Patient Details Input.....	4
3.3. Access Patient Details.....	4
3.4. Radiograph Upload.....	4
3.5. Cross Hospital Access	4
4. Non-Functional Requirement	5
4.1. Security.....	5
4.2. Performance	5
4.3. Reliability	5
4.4. Usability.....	5
4.5. Compatibility	5
5. System Architecture	5

1. Introduction

1.1. Purpose

The Hospital Radiograph project aims to develop a web-based system that allow hospitals to input patient details and upload radiograph of a patient securely. Another user from a different hospital can access these details for medical consultation and collaboration. The purpose of this system is to access the patient's Radiograph outside from another Hospital. This Software Requirements Specification document outlines the functional and non-functional requirements of the system.

1.2. Scope

- User Registration & Authentication
- User Insert the Patient's Details
- User Upload the Patient's Radiograph
- User Search for a Patient's Radiograph
- User Find That Specific Radiograph

2. System Overview

The Hospital Radiograph System will consist of the following key components.

- User Interface:
Provides a user-friendly interface for hospital staff to input patient details and access the patient details.
- Database:
Stores patient radiograph records securely.
- Data Transmission Module:
Facilitates the secure transmission of patient details between hospitals

3. Functional Requirement

3.1. User Authentication

- The system shall allow hospital staff to register and log in securely.

3.2. Patient Details Input

- Hospital staff shall be able to input patient details. Including name, age, medical history, and contact information
- The System shall allow hospital staff to upload radiographs images and associate them with patient records.

3.3. Access Patient Details

- Other hospital staff can access the patient radiograph images with the special registration number given by the hospital.

3.4. Radiograph Upload

- Hospital shall be able to upload radiographs in common image formats. (e.g, JPEG)
- The system shall support the upload of multiple radiographs per patient record.
- Uploaded radiographs shall be securely stored and associated with respective patient records.

3.5. Cross Hospital Access

- Users from other hospitals shall have access to view patient details and radiograph images with the special registration number given by the hospital(Hospital where the radiograph taken).
- Access shall be controlled based on permission set by the hospital owning the patient record.
- Users shall be able to search and retrieve patient records from other hospitals securely.

4. Non-Functional Requirement

4.1. Security

- The system protects every patient sensitive data.
- Hospitals only has the access to the system.

4.2. Performance

- The system shall be capable of handling a large volume of users.
- It uses optimized database for efficiency.

4.3. Reliability

- The system shall have built in redundancy to minimize downtime.

4.4. Usability

- The user interface shall be intuitive and user friendly, requiring minimal training for hospital staff and users.

4.5. Compatibility

- The system shall be compatible with modern web browsers. And access from hospital computers.

5. System Architecture

- The system shall follow a client server architecture, with a web based front-end and a back-end server for data processing and storage.
- The front-end shall be developed using Html, CSS and java Script and other frameworks.
- The back-end shall be built using php with a relational database MySQL for data storage.

