**DENTAL** **APPOINTMENT RECORD SYSTEM FOR THE**

**DENTAL HEROES**

A Technical Documentation Presented to the

Faculty of Datamex College of Saint Adeline,Inc

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**INTRODUCTION**

The Dental Appointment Records System is a simple tool designed to help dental clinics record and manage patient appointments. This project focuses solely on storing appointment details, making it easier for admin and staff to keep track of who is scheduled and when. Carrying and accessing the information will also be more convenient.

In many clinics, appointments are still written down on paper or in notebooks. This can lead to problems such as lost information, double bookings, or difficulty retrieving past records. These issues can slow down the clinic and affect the quality of patient service. A digital records system can solve these problems by keeping everything organized and easily accessible.

The clinic that offers general and specialized dental services such as cleanings, fillings, braces, and tooth extractions. Located in the heart of the city, the clinic serves a wide range of patients, from children to adults. With a growing number of clients, the clinic aims to improve its appointment management system to make scheduling easier and more organized.

**SYSTEM OVERVIEW**

The Dental Clinic Record Systemis a specialized software solution designed to digitize, centralize, and manage all operational and clinical data within a modern dental practice. Its primary objective is to transition the clinic from paper-based or fragmented digital processes to a unified, efficient, and compliant digital workflow.

**INSTALLATION GUIDE**

**Required Software**

* **VISUAL STUDIO10 (VB10)**
* **SSMS (DATABASES)**

**Configuration Guide**

This guide provides detailed, human-readable instructions for configuring the Dental Clinic Record System (DCRS). It covers essential system settings, file formats, and best practices to ensure secure and stable operation.

5. API Documentation

* List of APIs exposed by the system.
* Endpoint URLs, request/response formats, and parameters.
* Authentication and authorization requirements.

6. Database Documentation

* Entity-relationship diagram (ERD) depicting the database schema.
* Description of database tables, fields, and relationships.
* Data migration and backup procedures.

7. User Manual

* Instructions for using the software.
* User interface descriptions and navigation guidelines.
* Common tasks and workflows.

8. Troubleshooting Guide

* Common issues and error messages.
* Troubleshooting steps and resolutions.
* Contact information for technical support.

9. Code Documentation

* Code structure and organization.
* Inline comments explaining key functions and logic.
* Coding standards and conventions.

**Testing Documentation**

All testing is conducted in a Staging Environment using anonymized data. Critical test cases include verifying conflict detection during simultaneous appointment booking and ensuring a non-authenticated user receives a response from all protected endpoints. User Acceptance Testing with clinic staff is the final step before production deployment.

**Maintenance Guide**

Major version updates should first be tested in the follow the specific upgrade instructions provided by vendor, which typically involves pulling new Docker images and running updated database migration scripts. Never apply major updates directly to the production environment without prior testing.

12. Revision History

* Log of changes made to the document, including dates and descriptions of changes.

13. Approval

* Signature lines for key stakeholders to approve the technical documentation.

14. Appendix

* Any additional supporting documentation (e.g., diagrams, reference materials).