GROUP NAME:

PUT_YOUR_GROUPS_NAME_HERE

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Website URL:

https://csc375-group18.github.io/healthcare-data-system/

Website Front Page Image:

CSC 375 – Project Website

Modernizing reporting for a Regional Healthcare Authority with a secure, webform-based data capture and real-time insights.

Organization Overview

HealthData Solutions Inc. is a student consulting group formed for CSC 375 – Introduction to System Analysis. Our mission is to design innovative information systems that improve efficiency, accuracy, and collaboration for client organizations. Our team consists of six members with diverse skills in system analysis, design, and implementation. Our approach is user-centered, ensuring that our solutions meet the needs of end-users and stakeholders alike.

Client Organization

Our client is a regional healthcare authority responsible for patient care and operational oversight across multiple departments. They currently rely on Excel spreadsheets for data management, this includes patient records, treatment plans, and operational metrics. This approach has led to inefficiencies, data entry errors, and challenges in ensuring consistency across departments.

Project Description

Modernizing healthcare reporting systems from Excel files to webform-based systems. The client, a regional healthcare authority, currently relies on Excel-based spreadsheets for collecting and managing patient care and operational data. This approach results in inefficiencies, data entry errors, and challenges in ensuring consistency across multiple departments. Reports are time-consuming to compile and lack real-time visibility, delaying critical decision-making. The problem lies in the outdated reliance on static files, which are prone to version control issues and limited collaboration. To address these challenges, there is a need to modernize the reporting system by transitioning to a secure, webform-based solution that enables standardized data capture, streamlined workflows, and improved data accuracy.

Executive Summary

Our client is a regional healthcare management organization primarily responsible for patient care and operational management across multiple departments. Currently, the organization still relies on Excel spreadsheets to collect and manage critical medical data.

Problems

- **Inefficiency:** Manual spreadsheet processes significantly slow down data reporting and decision-making.
- **Data Errors:** Inconsistent data entry due to lack of unified standards, coupled with difficult version control, leads to frequent