

# Proposal document

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## PROBLEM STATEMENT

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**The company currently faces significant inefficiencies in handling employee data within its healthcare solutions, that lead to various operational issues.**

**Manual Entry:** Leads to lost time and increased operational costs, as teams spend significant time on repetitive data entry tasks.

**Time Consuming and Inefficient:** Causes delays that slow down hiring and the integration of new employees into the organization.

**Risk of Human Error:** Results in data inaccuracies due to the large volume of data that must be entered, potentially leading to costly mistakes and the need for rework.

**Difficulty in Updating Records:** Causes inefficient updates and long delay periods for changes, making it challenging to keep employee information accurate and up to date

## SOLUTION

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**To address the inefficiencies, we propose the implementation of an automated employee data management system with a tool that simplifies employee data entry, allowing multiple users to be processed at once instead of one by one.**

- **Automated Data Entry:** This will significantly reduce the time spent on repetitive tasks by automating data input, and thereby decreasing operational costs.
- **Improved Efficiency:** By automating the process, the system will speed up the onboarding of new employees and reduce delays in data handling, ensuring a smoother integration into the organization.
- **Minimized risk of human error:** By automating data entry, the tool will cut down on errors, prevent expensive and time-consuming corrections, and improve the reliability of employee information.

- **Efficient Record Updates:** The system will allow for faster and more accurate updates to employee records, ensuring that information is kept current and reliable with minimal delays.

# OBJECTIVES

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**System Design and Implementation:** Develop and implement a system that automates the bulk upload of user data, including the capability to seamlessly import all user information from a single file.

**Efficiency Improvement:** Eliminate the need for manual, one-by-one data entry

**Error Reduction:** Minimize the risk of errors associated with manual data input.

**Time Savings:** Significantly reduce the time required for user management processes.

**Scalability:** Design the system to handle large volumes of data and an increasing number of users in the future.

**User Experience:** Provide a user-friendly interface to simplify the bulk upload process.

# System Architecture

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## OOP

- Abstract User Class
- Practitioner Class --> User Class
- Other Staff Class --> User Class

## Backend API

- Handles the verification of the uploaded file whether if it is corrupt or not
- Handles the data insertion into the database
- Handles if the user want to export the data to local excel file
- Handles if the tool user wants to create a new user or change his/her password

## Frontend

- Cascaded pages using JavaScript
- Pages colors and formatting using HTML, CSS

# technology stack

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## TECHNOLOGY STACK



## Features

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- In the first page, the user submit his personal information (Name, Email, Username and the password)
- In the second page "Security page", the user can change his password and submit the new one.
- In the third page, the user will choose the type of users that will be added, Are they practitioners or other staff?
- In the forth and fifth pages, the user will upload the excel sheet that contain the data of the added users.
- In the sixth page, He will have a look at the added data.
- In the seventh and eighth pages, The user will submit the new data and the application process the new data and create the new users.
- In the ninth page, it asks if you want to discard the added data and start a new request to add new users.
- In the tenth and eleventh pages, they show the number of users that are created, failed and already existed.
- In the twelfth page, you confirm the data to be exported

## Workflows

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task1

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No status

Project Owner

Gantt chart

Board

List

Calendar

Workload

People

Dashboard

Expand all

Collapse all

Cascade sorting

Filter

Days

Export

Task name	Start date	End date	Duration	team	+
	13/08/2024 09:00	25/08/2024 15:58	12d 6h 58m		...
<div>profile</div>	13/08/2024 09:00	22/08/2024 12:55	9d 3h 55m	Yossif abbas , tasne...	...
Edit profile (Html)	13/08/2024 09:00	14/08/2024 07:30	16h	yousif	...
Security(Html)	14/08/2024 07:30	15/08/2024 06:30	16h	yousif	...
Edit profile (css)	16/08/2024 09:00	16/08/2024 11:30	2h 30m	tasneem	...
Security(css)	16/08/2024 09:00	16/08/2024 11:00	2h	tasneem	...
<div>User Creation Tool</div>	16/08/2024 06:00	22/08/2024 12:55	6d 6h 25m	youssif hassanin,me...	...
Fill in Data p3,4	16/08/2024 06:00	17/08/2024 14:30	1d 8h	hassanin	...
Fill Data p 5,6,7	17/08/2024 06:00	18/08/2024 00:00	1d	jana	...
Processing	19/08/2024 08:55	20/08/2024 12:55	1d 4h	hussam	...
View&Download Result p11,12	21/08/2024 08:55	22/08/2024 12:55	1d 4h	Menna	...
view&download Results p 12	21/08/2024 06:00	22/08/2024 00:00	1d	Tassneem	...
<div><div></div> Add a task   Add a milestone</div>					