Project AIssigner

A revolutionary way to assign a project

by DWS

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Problem Statement

As businesses grow and take on new projects, the need for efficient and productive team assignments becomes increasingly important. With a growing number of employees and projects, manual assignment processes become time-consuming and prone to human error. This is where an automated employee assignment system comes in.

The system is designed to assign employees to projects based on a variety of factors, such as their skills, experience, project performance, and other relevant attributes. By leveraging data-driven decision making, the system ensures that the most qualified employees are assigned to each project, maximizing productivity and success.

With this system in place, companies can streamline their assignment processes, reduce the risk of errors and inconsistencies, and ultimately achieve greater efficiency and productivity.

Proposed Paradigm & Objective

Personalized Production: AI can enable the customization and personalization of products and services, based on individual attributes and needs.

In this proposal, the objective is to utilize AI in order to analyze employees' skills and experience as well as availability to suggest and plan project assignments for each individual

Data Flow of Proposed Solution

1 - User Input

The head of a department inputs the name of the new project to the app

The app will arrange the employee to the new project

2 - Result

3 - Employee Input - Final Result

The employee who are currently in an ongoing project able to reject or accept the application

After a project is completed, the supervisor provides feedback on the employee's performance, which is then added to their attributes.

4 - Learning

This feedback loop ensures that system continually improves and make more accurate employees assignment overtime.

Scope of Works

1. Develop an algorithm in decision-making of the Project AIssigner
2. Develop a basic UI interface for prototype phase
3. Test the algorithm and analyze which model is the most accurate

Algorithm

The current development has only reached the prototype phase where the team used Decision-Tree, Qule based classification

1. Reading the data from csv format

2. By implementing the algorithm, the script is able to select the employee which is fitted to be in the project

3. The app will show the result in the dashboard page and give notification in Summary section of the application

Application Prototype

The application is to be run on EC2 platform and read the data from DynamoDB

Application Prototype

1

Dashboard

Main page where shows all the ongoing project as well as the meeting schedule that will happened on the day

2

Summary

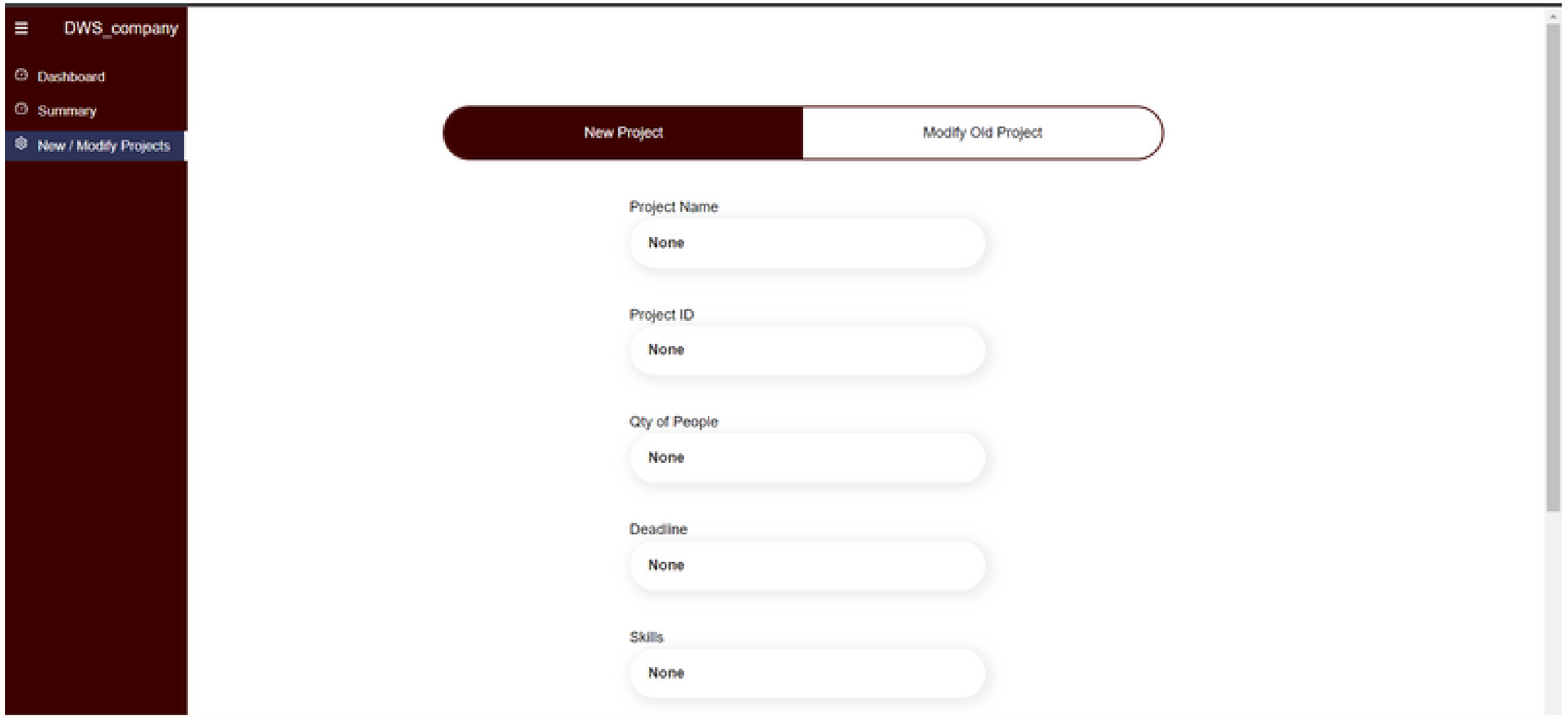
Personal Dashboard where shows the user summary task of the day as well as the progress of the project taken

3

New / Modify Project

Page where the head of the department is able to add new or modify old project

Application Prototype



Summary

The application is hoped to be able to make the process of a project selection more efficient as well as effective.

- Efficient: Immediately decide the project members to alleviate the head of department task and help them to focus more on other task
- Effective: assign the right person with right skills on the specified project

Thank you!

~ DSW