**Agile Development in Cloud Computing Environments (Project)**

**Project 3b: Access platform for providers (APP)**

1. General Objective

The overview of the project, as suggested in the requirement, is to establish a new IT landscape for the company “future-X” in order to collaborate with their providers. To achieve this purpose, the project is divided into several components – authentication component, provider management component, service management component, access platform component and a reporting component. The main objective of the access platform component (Project 3b) is to develop an access platform for the providers for various purposes.

1. Clarifying the Requirements

*Figure 2.1 Overview of the IT landscape with Future-X and providers*

Figure 2.1 depicts an overview of the IT landscape that is required to be established between the company “Future-X” and their providers. For the collaboration, an access platform needs to be developed . This access platform shall be utilised in various purposes. The APP(Access Platform for Providers) shall serve as a gateway between the company and its suppliers. It should be accessible both by the users and admin of the providers.

Users upload employee profiles and response

Initiated (open for bidding)

Master Agreement

User accepts the contract

Offer chosen

Offer placed by users

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Data stored

Offer declined

*Figure 2.2 Overview of the data flow between company and provider*

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Figure 2.2 depicts the data flow between the company “Future-X” and its providers. The APP will hold all the information about the admin, users, employee profiles and material profiles of the provider. The provider admin shall have the rights to configure and edit user information for the provider. Admin can register new users, de-register existing users and access or revoke privileges to the users of the provider.

Users shall be able to add or modify employee profiles and material profiles and maintain the same in the APP. Once master agreement is initiated, then users shall be able to bid for the same with the fitting employee profile. Once the offer is chosen by the company, users shall be able to accept the contract with the company. Furthermore, no users or admin of a provider shall be able to view the data (employee profile, material profile or offer) of another provider.

1. Time Frame

In this section, the timetable including the start and end date of the project is depicted. Moreover, the milestones of the work(sprint-wise) are presented as well.

Start date: 10.11.2023

End date: 21.01.2024

Milestones:

10.11.2023 - 24.11.2023: (Sprint 1): Requirement analysis, determination of technology stack including front-end, back-end & database model, Setting up of internal and external communication channel.

24.11.2023 - 08.12.2023: (Sprint 2): Review of Sprint 1, start working on building the website and APP, collaboration of team members on front-end, back-end part.

08.12.2023 - 22.12.2023: (Sprint 3): Review of Sprint 2, testing of the APP with dummy data, Integrate the website with data from other teams via API, working on documentation.

22.12.2023 - 12.01.2024: (Sprint 4): Review of Sprint 3, bug fixes, preparation of fully functional website & APP platform, continuation of documentation work.

12.01.2024 - 21.01.2024: (Sprint 5): Review of Sprint 4, final code & report modification. Submission of source code and project report.

1. Target State

A fully functional APP platform shall be developed in order to maintain provider information in detail. The APP shall be designed optimally such that admin, user, employee and material information can be stored, resulting in seamless collaboration with company “future-X”. This platform, APP shall be utilised for placing a bid/offer to the master agreement, uploading profile information (employee profile, material profile).

1. Software Requirements

The list of software required for the project are mentioned below –

* Programming languages & Framework: JS, HTML, CSS, React, Node JS
* Software tools: Visual Studio code, Github, kanban board, zoom
* Database: MongoDB