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Employee Reference Projects Web Application

Web Applications with C# (ICD0024) homework

Supervisor: Andres Käver

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TALLINNA TEHNIKAÜLIKOOL
Infotehnoloogia teaduskond

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Töötaja Referentsprojektide Veebirakendus

Veebirakendused C# baasil (ICD0024) kodutöö

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1 Application Overview

1.1 Introduction

During software development or security testing procurements there is a common requirement to supply previous reference projects that meet some specific criteria set by clients. This could vary from working with specific frameworks, languages or conducting testing based on a known testing standard. Traditional project management or time tracking software are often focused on financial data and do not keep project specific technical details.

This web application will store general project related data and enable users to search and request a list of reference projects needed to fill procurement requirements. Additionally, managers can request project statistics and gather feedback from closed projects to analyze potential problems or give praise to outstanding employees.

1.2 Initial Stage

This application will be developed as a prototype which means that it has limited and focused scope, many nice-to-have features have not been included and integration with 3rd-party software will not be implemented at this time. Viability of this application will be evaluated with a real-life trial run. Trial run will be conducted for a medium sized Cyber Security team and focuses on replacing existing internal usecase.

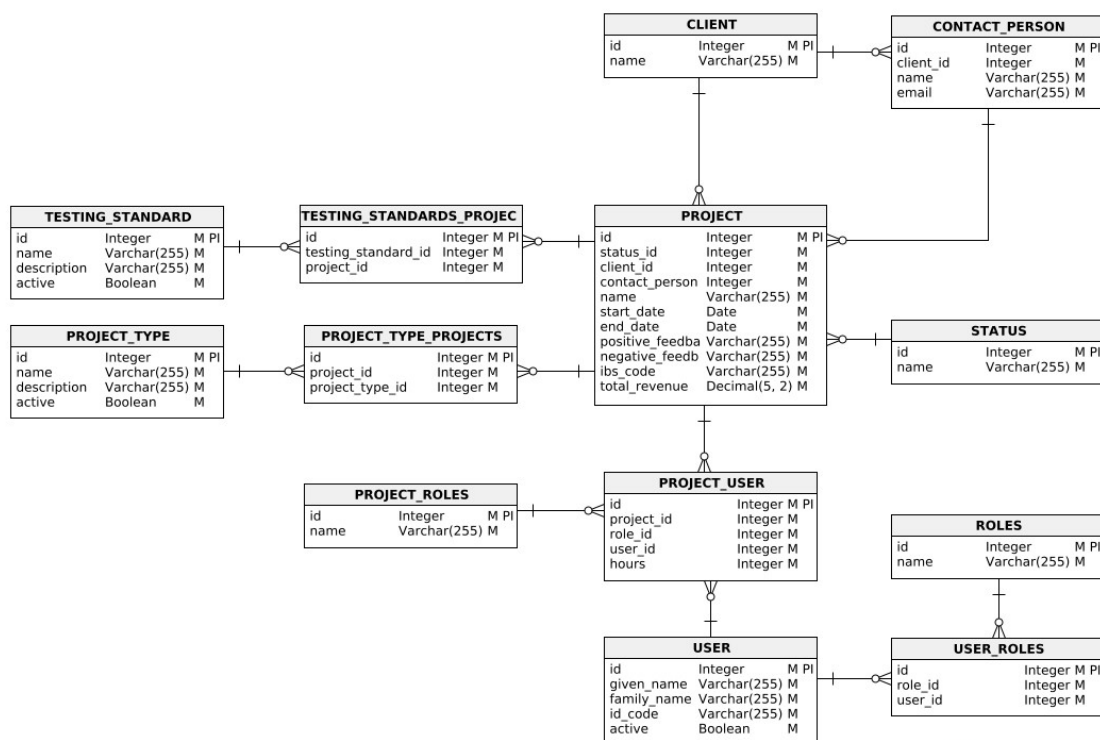
Current usecase relies heavily on employees filling out a document each week, manually placing it in a correct project folder and waiting for it to be picked up by automated Python script. Analyzing feedback due to the complexity of accessing systems managed by other teams and team members not having access to these systems results in the current solution being un motivating and difficult to use.

1.2.1 Feature List

The following features will be implemented in the prototype:

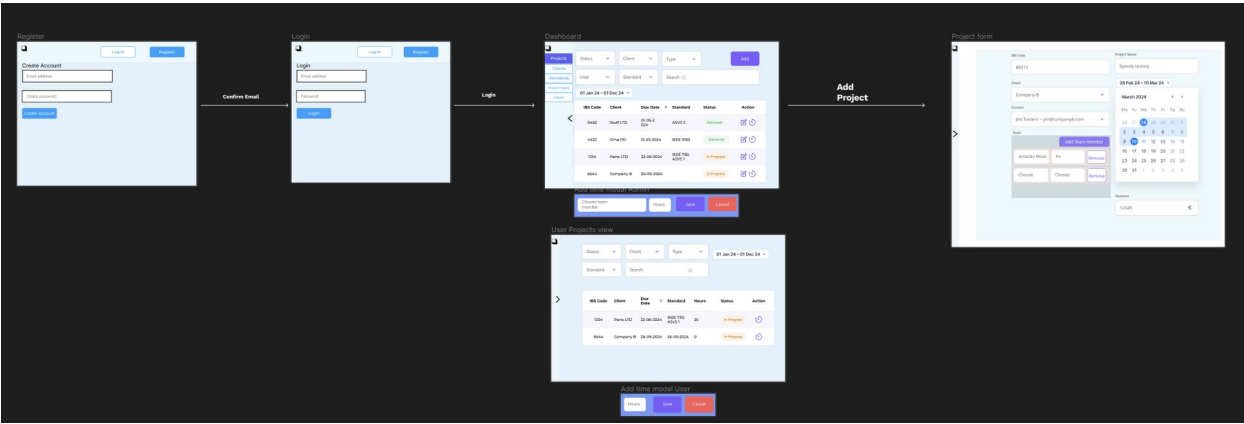
- Submit project details and check status.
- Manage testing standards.
- Manage project types.
- Manage users, user roles and user details.
- Manage project specific roles.
- Show overview for a specific user (list of projects worked with total hours, search by dates and/or project/standard type).
- Show users who have done projects based on search criteria.
- Generate quarterly feedback report.

1.2.2 ERD



1.2.3 User flow screens

Main happy path user flow from user registration to adding a new project.



Project form view.

The Project form view includes the following elements:

- IBS Code:** A text input field containing '88315'.
- Project Name:** A text input field containing 'Speedy testing'.
- Client:** A dropdown menu showing 'Company B'.
- Contact:** A text input field containing 'Jim Tooters -- jim@companyb.com'.
- Team:** A section with an 'Add Team member' button and a list of team members. The first member is 'Amanda Moss' with a role of 'Po' and a 'Remove' button. Below it are two 'Choose' buttons and another 'Remove' button.
- Calendar:** A calendar for March 2024, showing dates from 26 to 31. The date '28' is highlighted.
- Revenue:** A text input field containing '12345' and a currency symbol '€'.