User Acceptance Test Plan

Feature: User registration and login

Test 1: Registration
- Description: User enters a username, first and last name, and password into the registration page. They click the register button and are redirected to the login page. Their username, full name, and hashed password are added to the users table in the database.
- Data used: Username, first name, last name, password of example employee (stanstan427, Stanley, Stanlee, 427)
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Database contains new user information
- Tester information: Developer

Test 2: Log-in
- Description: User enters appropriate credentials (username & password) and clicks login button. User is redirected to the home page upon success.
- Data used: Input username, input password, accounts table information
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: User can sign in; user is redirected to home page
- Tester information: Developer

Test 3: Redirection
- Description: User attempts to log in with credentials not in the database; error is handled and user is redirected to registration page. Appropriate error message is displayed.
- Data used: Entered Username, entered password, credentials saved in account database
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Registration page is rendered with error message ('account does not exist")
- Tester information: Developer

Test 4: User already exists
- Description: User attempts to register with credentials (username) already in the database. Error message is displayed.
- Data used: Username, first name, last name, password of example employee (stanstan427, Stanley, Stanlee, 427), users database table
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Log-in page is rendered with appropriate error message ("looks like you already have an account.")
- Tester information: Developer

Feature: Employees can view data from database

Test 1: Project view
- Description: On projects page, user can view the projects they are assigned to, the project lead of that project, the other employees assigned to that project, and their manager
- Data used: users and projects tables of database
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Employee can view all information in the project view
- Tester information: Developer

Test 2: Manager view
- Description: Managers can view the complete information of all employees assigned to them. This includes name, username, and projects assigned.
- Data used: Data from users and projects tables in the database
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Managers can view all stated information about employees assigned to them. The data is accurate and complete.
- Tester information: Developer

Feature: Managers can update database

Test 1: Managers can make other users managers
- Description: Managers can change the status of any employee to make them a manager or revoke their manager status. This will update the database and give them manager permissions.
- Data used: users.isManager in database
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Anyone with manager permissions can give or revoke manager status from another user.
- Tester information: Developer

Test 2: Managers can change user info
- Description: Managers can change the projects users are assigned to and their assigned manager
- Data used: users_to_projects and users_to_managers tables in the database
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Managers can update user projects and managers
- Tester information: Developer

Test 3: Managers can create, edit, and delete projects
- Description: Managers can create, edit, and delete projects. They can make or change project name, description, and project lead.
- Data used: Project name, description, and project lead of projects table in database.
- Test environment: The webpage (run on server) on a machine running Docker (database)
- Test results:
  - Success: Updates to projects (or project creation/deletion) is represented in the database & updated on the webpage
- Tester information: Developer