Activity 1: Prisma ORM – Database Initialization and Model Creation
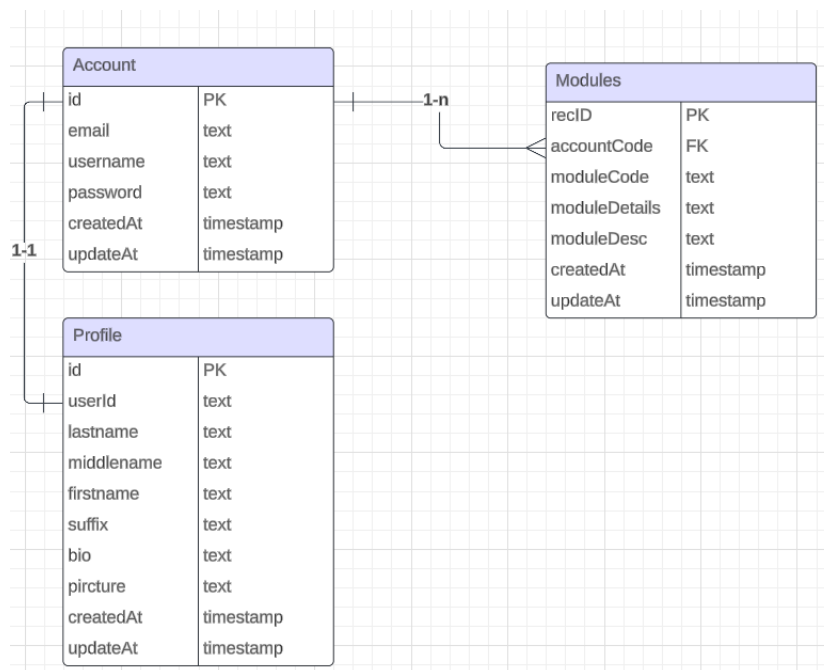
March 15, 2025

Objectives

To create a database (**db_act1**) using Prisma ORM with the following models: Account, Profile, and Modules. Implement actions and relationships based on the specified conditions.

Task Details

1. **Database Name**: db_act1

2. **Models**:

3. **Conditions**:

   o   The account and Profile must be created at the same time.

   o   Modules can be added to an existing Account.

   o   Actions to implement:

       1.   Create an Account.

       2.   Create Profile.

       3.   Fetch a list of Accounts with their associated Profiles and Products, if any exist.

Steps to Complete

Step 1: Initialize Project

- Set up a Node.js project with Prisma ORM and connect to the database **db_act1**.

Step 2: Define Models

- Define the following models in prisma/schema.prisma:

    o Account

    o Profile (related to Account)

    o Modules (related to Account)

Step 3: Apply Migrations

- Create the database structure by running Prisma migrations.

Step 4: Implement Actions

1. **Create Account and Profile Together**:

    o Implement logic to create an Account with a Profile simultaneously.

2. **Add Modules to an Existing Account**:

    o Add Modules to an already existing Account.

3. **Retrieve Data**:

    o Fetch and display Accounts with their associated Profiles and any Modules.