

3005 Term Project

Background

Over the last few years, I wanted to track how long I spend on school assignments, personal projects, and general tasks. Previously, I have used methods like scheduling or pomodoro timers but I have found that they are not as flexible. I want to create a time tracking app that will track how users individually and in teams track their time. In order to create this full stack application, I will have to make use of a database. **The goal of this project is to create a database that can store information on people, the tasks that they are working on, and sessions when they work.**

Application

The database stores information on the people, the tasks they create, the tasks they participate in, the sessions they create, and the sessions they work on.

ER Diagram:

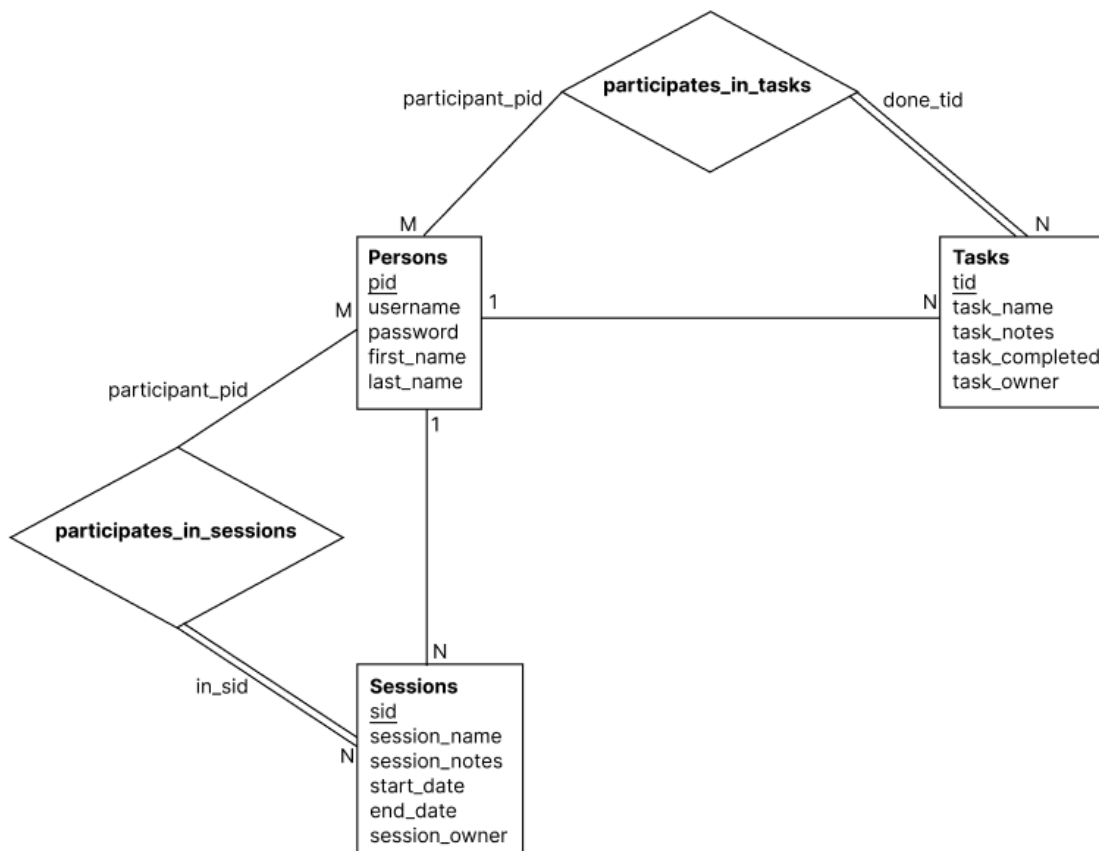


Table Schemas

Primary keys are identified with underline.

persons:

<u>pid</u>	username	password	first_name	last_name
------------	----------	----------	------------	-----------

A person also has sessions they own, sessions they participate in, tasks they create, and tasks they participate in. The information on those resources will be tracked with the other tables in the database.

tasks:

<u>tid</u>	task_name	task_notes	task_completed	task_owner
------------	-----------	------------	----------------	------------

The task owner stores the pid of the person who owns the task.

sessions:

<u>sid</u>	session_name	session_notes	start_date	end_date	session_owner
------------	--------------	---------------	------------	----------	---------------

participates_in_sessions:

<u>participant_pid</u>	<u>in_sid</u>
------------------------	---------------

The participant_pid stores the pid of a person who is participating in a given session. The session is tracked using in_sid.

participates_in_tasks:

<u>participant_pid</u>	<u>done_tid</u>
------------------------	-----------------

The participant_pid stores the pid of a person who is participating in a given task. The task is tracked using done_tid.

Due Diligence: Data Ownership Issues:

This database is inherently storing personal data that is meant for personal use. All data that is stored can be removed by a user at any time. For this application all data will be visible through the front end but in a real life situation, such Person data would be hidden to all users except for the Person data relating to a user.