

TALLINN UNIVERSITY OF TECHNOLOGY
School of Information Technologies

Liisi Õitspuu 222465IADB

Personal time tracker

ICD0024 Web Applications with C# course project

Supervisor: Andres Käver
MSc

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Author's declaration of originality

I hereby certify that I am the sole author of this project. All the used materials, references to the literature and the work of others have been referred to. This project has not been presented for examination anywhere else.

Author: Liisi Õitspuu

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1 Introduction

Personal time tracker will be a simple web application where people can keep information about where they spend their time. It will not be a calendar or planning application. It will be just a basic place for statistics.

The idea came from the need to keep track of time spent on school work because end of semester feedback asks if course load and EAP-s match up. Without saved data it is a difficult question to answer.

As users might want to keep track of other basic things as well, there will also be options to add work hours, sleep duration and time spent on hobbies.

2 ERD

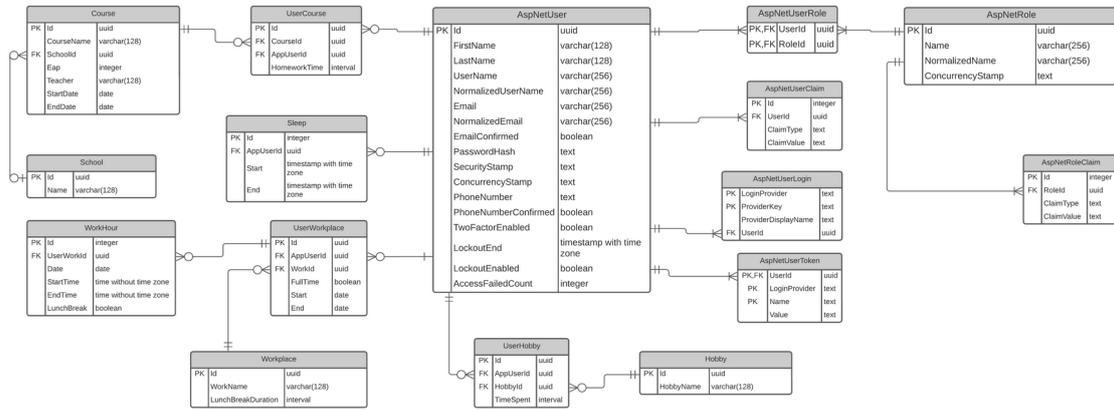


Figure 1. Entity-relationship diagram

3 Analysis

3.1 Courses

User can create new courses (with or without a school attached) or choose a course created by others when inserting time. A course must contain EAP (ECTS) value, because this will be used to show projected time user can compare against. 1 EAP should equal 26 hours of work.

First time user adds time to course new database entry is created. Afterwards that entry is changed. Only cumulative study time is saved.

3.2 Work

Currently users can only create a workplace with a set lunch break duration, because for hourly workers it is usually specified. When user adds themselves a workplace, they can check a box claiming they work full time (set to 40h a week). Then information about work hours left to do this week can be shown do them. (Week starts on a Monday.)

When adding hours and checking the box lunch break then the duration saved in the workplace database entry will deducted from the total work hours.

3.3 Sleep

Sleep data will be added with both date and time data so that user can later view their hours day by day. There will be also monthly and overall totals.

3.4 Hobbies

Here user can keep track of whatever activity they want. But like with courses only cumulative time is saved. Currently there will be no date based data saved here.

4 Flow screens

Example flow shows how adding sleep data works. First user must register or login.

Personal Time Tracker

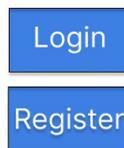
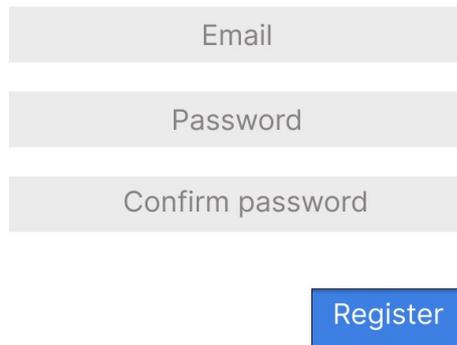


Figure 2. Login page

Personal Time Tracker



The image shows a registration form for a 'Personal Time Tracker' application. It consists of three stacked input fields for 'Email', 'Password', and 'Confirm password', followed by a blue 'Register' button.

Email

Password

Confirm password

Register

Figure 3. Register page

Next they will land on the main page with 4 lists of time spent. Clicking on the Add new link in sleep category opens creating view, where user can input start and end (both contain date and time).

The figure shows four category cards arranged in a 2x2 grid. Each card has a title bar with the category name and an 'Add new' button. Below the title bar is a table with two columns. The 'Courses', 'Work', and 'Hobbies' cards have columns for 'name' and 'time spent'. The 'Sleep' card has columns for 'date' and 'duration'. The tables are currently empty.

Figure 4. Main page with four categories

The figure shows a form for adding a sleep entry. It has two input fields: 'Start' with the value '02/06/2024, 23:00' and 'End' with the value '02/07/2024, 07:00'. Below the fields is a blue 'Save' button.

Figure 5. Sleep adding page

Clicking save brings user to the sleep details page, which contains sleep info.

Personal Time Tracker Courses Work Hobbies Sleep Welcome back, user Edit

Add new

Sleep duration	By day	By month	Total
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Date	Time slept	
06.02.2024	08:00	Edit

Figure 6. Sleep page