

Time Tracker

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Description

In many jobs, employees need to keep track of the hours they spend working for clients or on individual activities. This can be a tedious and inaccurate experience often filled with rough estimates. This Time Tracker app is designed to make tracking time easy and take the guesswork out of it.



Features

- Ability to create persistent activities to track
- Add time to an activity by stopwatch or manual entry.
- The option to export and/or clear data



Planning - User Stories

- As a User I want to add an activity so I can track time for the activity
- As a User I want to be able to see how long I've worked on each activity so I can track my hours effectively
- As a User I want to be able to export my data to a format that I can use to quickly report to my employer



Planning - Database

- Tables
 - Activity
 - Main table for data storage
 - User
 - Each User is associated with many activities
 - Each Activity has a single User
 - Category
 - Another one-to-many relationship with Activity



Technology Stack

- Java
- Spring Boot
- Thymeleaf
- MySQL
- Bootstrap, OpenCSV, JavaMail



Demo



What I Learned

- OpenCSV and exporting to a file
- How to make Date Objects in Java useful
- How to make having a User profile actually useful



What's Next

- Batch Entry for time
- Export to email
- Cleaner presentation of data
- Importing data from output files

