

WorkTime by Cup'0 Java

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WorkTime

Overview of WorkTime

- The main purpose of app:
 - 1. To provide a tool for both employees and employers to view both personal and position related material
 - 2. To allow employees to see their projected salary and total hours for a given pay period(two weeks)

Video Pitch

<https://youtu.be/Qnp0rpa0wbk>

Model and Controller Classes

Models


- Employee:
 - Keeps track of personal information for employee.
 - Includes login information and position.
 - Reads records that are stored in a csv file.
- Position:
 - Keeps track of employment details such as position title and salary.
 - Position options are intern, seasonal, mid-level, and admin
 - hours per week and hourly wage are based on position

Controllers

- LoginController: for the login view.
- SignupController: for the Signup view.
- EmployeeProfileController: for the EmployeeProfile view.
- ProjectedPayController: for projected pay view.
- UpdateInfoController: for UpdateInfo view.

Login View

- The login view is the first view seen by the user.
- It provides fields for a username and password to be entered so that:
 - If login is successful, a profile view is displayed.
 - Otherwise, an error is displayed.
- Also, a button for registering a new employee is present (this leads to a signup view).



The logo for WorkTime, featuring a blue clock face with a circular arrow around it, and the text "WorkTime" in a blue sans-serif font below it.

Employee ID:

Password:

Signup View

- The signup view provides multiple fields to take in a new employee's information.
- If a duplicate employee ID is entered, an error will be displayed.
- Upon successfully creating a new employee, the application will go to the new employee's profile view.



New Employee Registration

Employee ID:

Password:

Name:

Date of Birth:

Address:

Phone Number:


Email:

Position:

Register/Log In

Profile View

- The profile view displays all employee personal and position information:
 - Update personal info opens the update personal info view.
 - Projected pay leads to the projected pay view which is discussed in the next slide.
 - Lastly, logout returns the user to the login view.
- Hourly Wage, Weekly Salary and Annual Salary are based on the employee's given position

**Employee Profile**[Log Out](#)

Personal Information

Employee Name:

Employee ID:

Address:

Phone Number:

Email:

Position Information

Position:

Hours:

Hourly Wage:

Weekly Salary:

Annual Salary:

[Update Personal Info](#)[Projected Pay](#)

Update View

- This view is similar to the Signup view as it allows the user to enter a variety of personal information
- An error message is displayed if incorrect user ID is entered
- When the user has finished entering information, their profile is updated and saved to the data file.
- The update button will go back to the profile view with their updated data.



Update Information

Current User:

Employee ID:

Password:

Name:

Date of Birth:

Address:

Phone Number:


Email:

Position:

Update

Projected Pay View

- Projected Pay is the most unique function of WorkTime
- It allows the user to enter hours worked for the entire pay period (2 weeks) and receive:
 - Total hours worked.
 - Projected pay (calculated using information from the position class).
- Also, the user may return to their profile from here, or logout.

**Projected Pay**

Return to Profile

Log Out

Employee: ID Here

Week One:	In Time:	Out Time:	Week Two:	In Time:	Out Time:
Monday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>	Monday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>
Tuesday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>	Tuesday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>
Wednesday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>	Wednesday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>
Thursday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>	Thursday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>
Friday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>	Friday:	<input type="text" value="HH:MM"/>	<input type="text" value="HH:MM"/>

Calculate Pay

Hours Worked:

Projected Pay:

Most Challenging Parts of Project

- Dealing with Time (solved with `java.time.LocalDateTime` and `java.time.Duration`)
- User Input Error checking
- Updating user information in csv file
- Getting Employee Information in each controller class

Ideas for Improvement

- Admin view to give raises, bonuses, and remove employees
- Allow employees to insert lunch breaks
- Business Start Up View for businesses to set their own hourly wages, hours, and employee positions instead of using our pre-set ones
- Allow employees to receive overtime pay for working additional hours
- Use current date and time to give the app a timekeeping (clock-in/clock out) function