Software Testing

Project Submission # 1

Group #:   4

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Environment Setup

1. Download maven from here: https://maven.apache.org/download.cgi
2. Download and install the mysql workbench from here: https://dev.mysql.com/downloads/installer/
3. Download jdk1.8+
4. In the .\timesheet-master\build.bat, set the JAVA_HOME to jdk path and similarly set MAVEN_HOME to the maven path.
5. In the .\timesheet-master\run.bat, set the JAVA_HOME and set CATALINA_HOME to absolute path appended by ".\PaySystem\apache-tomcat-7.0.108-windows-x64\apache-tomcat-7.0.108".
6. Open Command prompt, navigate to project repository i.e .\Paysystem\timesheet-master\ and execute build.bat.
7. This will build the project.
8. Open mysql workbench and enter following two queries:
   DROP DATABASE paysystem;
   Create DATABASE paysystem;
9. When the database is created for first time, only execute the create query.
10. Execute run.bat.

Project Description

The project is a lighter version of a pay system for managing the expenses of the employees.

- Adding the new employees in the database.
- Adding the time worked for a specific employee.
- Configuring the database settings.
- Managing the groups in the company.
- Generate the ADP reports of the employees.

Application Running

After the local server is running, go to http://localhost:8090/ or you can just go to the application http://localhost:8090/PaySystem

Pay System Installer

Welcome to the Pay System Installer. We have a few things we need to know on these pages to setup everything properly for you.

The first thing we will need to know is the name of your company.

Company Name:

Next

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Enter the company name, and then click next.

Then you will be redirected to add information about the database. To avoid confusion, database username and database password are kept same.

Pay System Installer

Next up we need to get some information about your desired database system.

We currently have a choice to work with 2 different databases, H2 and MySQL, and we can connect to the H2 database either through and embedded connection or a TCP connection.

H2
H2 Embedded
MySQL

Database Location: localhost:3306/PaySystem
Database user name: itu_root
Database password: ••••••••

Next

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You will be redirected to add username and password for the user purpose. These are also kept same.

Pay System Installer

We also need to setup an administrative user that will be the user to use for HR purposes.
Other users and settings can be modified after the install.

Name: itu_hr
Admin User Name: admin
Password: ••••••
Password(again):   ••••••
                       Passwords match

Would you like to use LDAP Authentication?

Use LDAP to login: ☐

Install

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You will be redirected to the login page.

Pay System Installer

Congratulations, PaySystem has been successfully installed. Please login.

After clicking login, Login using the username you set earlier.

Pay System

User Name:	admin
Password:	•••••

Login

After login you will be directed to the dashboard. Below is the full dashboard.

Pay System

Dashboard - itu_hr

Manage Account
Manage Time
Manage Groups
Manage Employees
Manage Settings
Manage Hour Types
Reports

In the manage account section, you can add the wage.

Pay System

User Management

Wage: 1000.0

Submit

Cancel

Change Password

In the manage employee section, you can add/delete the employees.

Pay System

Add Employee

Name:	Abu Bakar
Date Hired:	2021-04-01
Full Time Date:	2021-04-01
Group:	admin
Role:	Regular Employee
User Name:	mabubakar
Password:	
Verify Password:	
Email Address:	
File Number:	1
Active:	☑
PTO Allowed:	☑
Salaried:	☑

Submit

Cancel

In the manage settings section, you can change the settings.

Pay System

System Settings Management

Company Settings

Company Name:	
Company Code:	

Login Settings

Login Type:	Database
LDAP Server:	
LDAP Domain:	

Database Settings

Database Type:	MySql
Database Location:	localhost:3306/Paysystem
Database User Name:	itu_root
Database Password:	••••••••

Save

In the hour management section, you can add/delete/edit the hour types.

Pay System

Hour Type Management

Over time		Edit	Delete
Regular Hours		Edit	Delete
Night Shift		Edit	Delete

Add

In the group management section, you can add/delete/edit the groups.

Pay System

Group Management

admin		Edit	Delete
Finance Group		Edit	Delete
HR group		Edit	Delete

Add

In the report section, you can generate the reports.

Pay System

Reports

ADP Report

Batch ID:	1
Batch Description:	quarterly reports

Next

For the report generation, you can add the data for the employee.

Pay System

ADP Report Entry

File Number	Employee Name	Regular Hours	Commission	Bonus	Reg Earnings	Adjust	NC Earnings	NC Deduction
	itu_hr							
1	Abu Bakar	8	1000	0	50000	1500	0	0

Finalize Data

After clicking the finalize data, a csv file is downloaded.

				Name	Reg Hours	Commissio	Bonus	Reg Earnin	Adjust Misc	NC Earning	NC Deduction
!Do not change rows and column headers preceded by "!". Only employee data can be modified.											
!											
!CO CODE	BATCH ID	FILE #	BATCH DESCRIPTION								
	1	null	quarterly reports	itu_hr							
	1		1	quarterly reports	Abu Bakar	8	1000	0	50000	1500	0	0
!											
!Column1		CO CODE	CO CODE								
!Column2		BATCH ID	BATCH ID								
!Column3		FILE #	FILE #								
!Column4		BATCH DESCRIPTION	BATCH DESCRIPTION								
!Column5	Name		Employee Name								
!Column6	Reg Hours		Reg Hours								
!Column7	Commission		Earnings 3 Code	Earnings 3 Amount	C						
!Column8	Bonus		Earnings 3 Code	Earnings 3 Amount	B						
!Column9	Reg Earnings		Reg Earnings								
!Column10	Adjust	Misc	Adjust Ded Code	Adjust Ded Amount	M						
!Column11	NC Earnings		Earnings 3 Code	Earnings 3 Amount	NC						
!Column12	NC Deduction		Adjust Ded Code	Adjust Ded Amount	NC						