System Requirements Specification Index

For

Date and Time Operations

Version 1.0

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USE CASE DESCRIPTION

System Requirements Specification

1 Project Abstract

You are tasked with performing basic date and time operations using Java's java.time package.

2 Assessment Tasks

Task 1: Get Current Date and Time:

→ Print the current date and time in LocalDateTime format.

→ Example: Print the current date and time in the default format.

Task 2: Date Arithmetic:

→ Manipulate date objects. Add or subtract days, months, or years.

→ Example: Add 5 days to the current date.

Task 3: Time Arithmetic:

→ Manipulate time objects. Add or subtract hours, minutes, or seconds.

→ Example: Subtract 3 hours from the current time.

Task 4: Time Zones:

→ Convert the current time to a different time zone.

→ Example: Convert the current time to UTC and print the result.

3 Template Code Structure

3.1 Package: com.yaksha.assignment.DateTimeOperationsAssignment

Resources

Class/Interface	Description	Status
DateTimeOperationsAssignment (class)	• Main class demonstrating date and time operations using the `java.time` package. Includes tasks like fetching current date and time, performing date and time arithmetic, and working with different time zones.	Need to be implemented.

4 Execution Steps to Follow

1. **All actions like build, compile, running application, running test cases will be through Command Terminal.**
2. **To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) □ Terminal □New Terminal.**
3. **This editor Auto Saves the code.**
4. **If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.**
5. **These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.**
6. **To run your project use command:**
   mvn compile exec:java
   -Dexec.mainClass="com.yaksha.assignment.DateTimeOperationsAssignment"
7. **To test your project test cases, use the command**
   mvn test

8. **You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.**