LAB211 Assignment

Type:	**Short Assignment**
Code:	**J1.S.P0071**
LOC:	**150**
Slot(s):	**2**

Title

Task management program of CCRM project

Background

(Module extracted from TienPhong Bank, ebank project)

Program Specifications

Write a program to manage the task and task type for employees include function to delete:

- The type of task: (ID, Name contains the following data fixed:
    - ID Name

      1 Code
      2 Test
      3 Design
      4 Review
- Task: ID, TaskTypeID, Requirement Name, Date(dd-MM-yyyy), Plan From, Plan To, Assignee, Reviewer
    - (ID = ID last task +1)
    - Plan From, Plan To calculate from 8h -> 17h30 ⇔ 8.0, 8.5, 9.0, 9.5 … -> 17.5.

Function details:

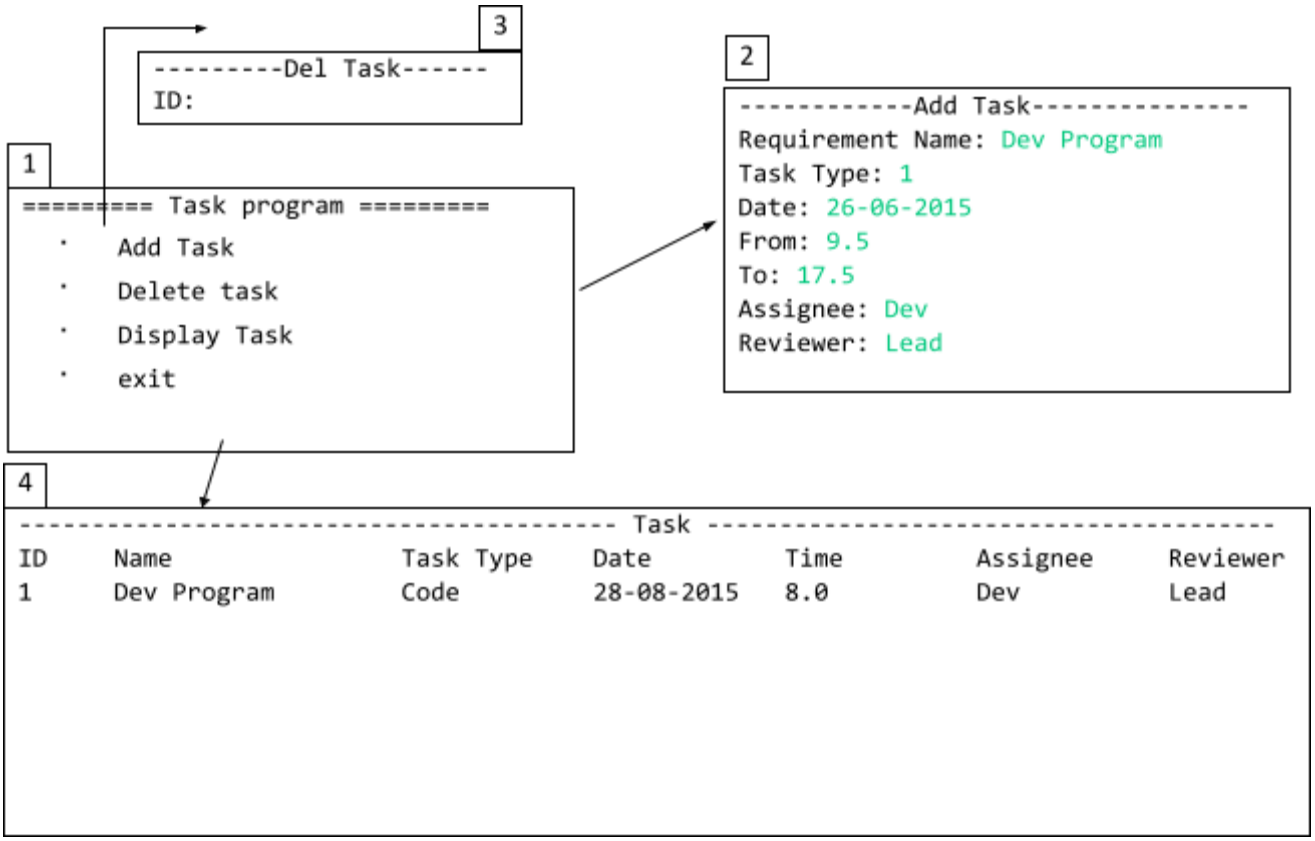
Function 1: Display a menu and ask users to select an option.

- Users run the program. The program prompts users to select an option.
- Users select an option, perform **Function 2**.

Function 2: Perform function based on the selected option.

- Option 1: Add Task
  - Prompt user to input the information requested Task (TaskTypeID, Requirement Name, Date, From, Plan To Plan, Assignee, Expert)
  - Check for valid data with the conditions:
    - Check the TaskTypeID must exist (1-4).
    - Information must be valid date in the format dd-MM-yyyy.
    - Plan From must be less than Plan To and within 8 h-17 h 30 > 8.0, 8.5, 9.0, ⇔ 9.5 ...-> 17.5 .
  - Add a Task on the program .
  - Go back to the main screen.
- Option 2: Delete Task
  - Request input the ID of the task to delete.
  - Check for valid data with the conditions below:
    - Id must exist in the DB.
  - Delete the task.
  - To return to the main screen.
- Option 3: Show task
  - Show the task of ascending according to the ID and the required format interface.
  - To return to the main screen.
- Option 4: Exit the program.

Expectation of User interface:



Guidelines

Student must implement methods

addTask
deleteTask
getDataTasks

in startup code.

Uses try-catch to catch NullPointerException, NumberFormatException
Use SimpleDateFormat to handle date.
Use wapper classes to test the value number.

Option 1: Add the task.

- Implement function: public int add Task (String requirementName, String assignee, String, String, String taskTypeID expert date, String, the planTo planFrom String) throws Exception

  - input :

    requirementName: Name of the requirement

    assignee: task assigned to.

    reviewer: Review task.

    taskTypeID: task type.

    date: task performed date

    planFrom: Start time.

planTo: End time.

- Return value:

  id task

  Exception list

Option 2: Delete task.

- Implement function: public void deleteTask (String id) throws Exception
  - input :

    id: id task

    Return value: Exception list

Option 3: Show task.

- Implement function: public function settings getDataTasks ()
  - Return value: list of task