LAB211Assignment

Type: Short Assignment

Code: J1.S.P0071

LOC: 100 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
 - \circ (ID = ID last task +1)
 - o Plan From, Plan To calculate from 8h -> 17h30 ⇔ 8.0, 8.5, 9.0, 9.5 ... -> 17.5.

Function details:

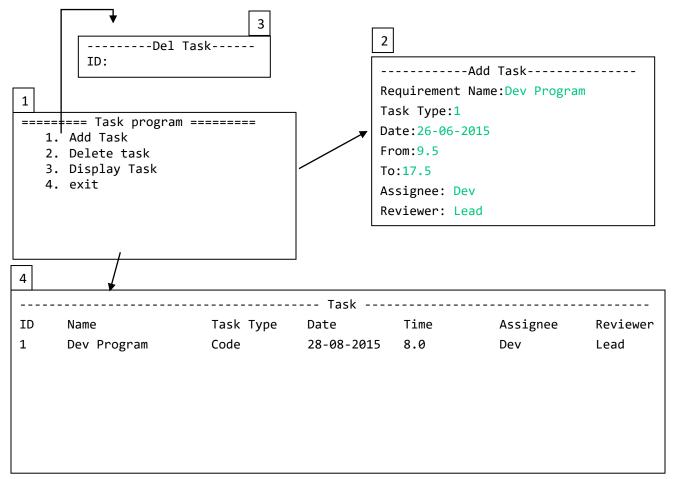
Function 1: Display a menu and ask users to select an option.

- Users run the program. The program prompts users to select an option.
- Users select an option, perform **Function2**.

Function 2: Perform function based on the selected option.

- Option 1: AddTask
 - Prompt user to input the information requested Task (TaskTypeID, Requirement Name, Date, Plan From, Plan To, 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 8h -> 8.0,...,17h30 -> 17.5.
 - Add a Task on the program.
 - Go back to the main screen.
- Option 2: Delete Task
 - o 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.
 - o To return to the main screen.
- Option 3: Show task
 - Show the task of ascending according to the ID and the required format interface.
 - o 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 tocatch NullPointerException, NumberFormatException

Use SimpleDateFormat to handle date.

Use wapper classes to test the value number.

Option1: Add the task.

- Implement function: public int addTask (String requirementName, String assignee, String reviewer, String taskTypeID, String date, String planFrom, String planTo)
 - 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

Option2: Delete task.

- o Implement function: public void deleteTask (String id) throws Exception
 - input:
 - id: id task
 - > Return value: Exception list

Option3:Show task.

- o Implement function: public function List<Task> getDataTasks()
 - Return value: list of task