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| **LAB211Assignment** | **Type:** | **Short Assignment** |
| **Code:** |  |
| **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
  + (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 **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, 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:***

------------Add Task---------------  
Requirement Name:Dev Program  
Task Type:1  
Date:26-06-2015  
From:9.5  
To:17.5  
Assignee: Dev  
Reviewer: Lead

---------Del Task------

ID:

========= Task program =========

1. Add Task
2. Delete task
3. Display Task
4. exit

----------------------------------------- Task ---------------------------------------  
ID Name Task Type Date Time Assignee Reviewer  
1 Dev Program Code 28-08-2015 8.0 Dev Lead

2

1

3

4

**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 add Task (String requirementName, String assignee, String, String, String taskTypeID expert date, String, the planToplanFrom 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

**Option2:**Delete task.

* Implement function: public void deleteTask (String id) throws Exception
  + input :
* id: id task
* Return value: Exception list

**Option3:**Show task.

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