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MVC Flavour 1 Practicals

1) Unzip the .java files zip and go through the control flow once to understand the working. First compile and run it and then go through the code.

2) Eclipse->File->new Core Java Project->TaskManager

3) First create StartApp.java which contains main(). Here first build the menu completely as per the prototype (TaskMVCAppSteps.pdf attached).

4) First implement Create Category and Add Task usecase. Create a static method to validate name inputs, invoke it and pass category name and task name as inputs. If there is a failure, show an error message and ask user to input again. Test it.

5) Build the TaskBean class with instance variables to hold all the inputs given by user per task. Override equals(), hashCode(), toString() and generate setters/getters. Look into example code when in doubt.

6) Build a TaskModel class. This will have business methods. First create the following methods with implementation. Invoke these from StartApp when you want to perform business validations and business logic. Look into the pdf to understand how to build the other methods and start the implementation.

   public boolean checkCategoryExists(String catName)

   public String addTask(TaskBean bean, String catName)

7) Per model method call, test the flow, put SOPs before call and after call in main(). Run and understand the control flow and data flow.

8) Implement the list use case next and then the remove usecase.

9) Think about how to remove / edit content in the file? the only way is to read every line from the file and then store in a collection, edit/remove it there and then overwrite the file contents by looping over the collection.

Ask doubts to Lab Instructors when you have any. Read the PDF as it contains detailed info as to what needs to be done!