## To-do List

In this exercise we are going to create a whole project called "**To-do List**". We are going to create the project step-by-step starting with the project structure:



Please, create separate file for each class as shown above. You are tasked to create **two classes**: **a Task** class and **a Section** class.

The **Task** class should receive a **name** (string), and a **due\_date** (str) upon initialization. The Task also has **two attributes**: **comments** (empty list) and **completed** set to **False** by default.

The **Task** class should also have **five methods**:

* **change\_name(new\_name: str)**
  + Change **the name of the task** and return **the new name**.
  + If the new name **is the same as the current name**, return **"Name cannot be the same."**
* **change\_due\_date(new\_date: str)** 
  + Change **the due date of the task** and return **the new date**.
  + If the new **date is the same as the current date**, return **"Date cannot be the same."**
* **add\_comment(comment: str)**
  + Add a comment to the task.
* **edit\_comment(comment\_number: int, new\_comment: str)**
  + The **comment number** value represents the **index** of the comment we want to edit. You should **change** **the comment** and **return all the comments**, separated **by comma and space (", ")**
  + If the comment number **is out of range**, return **"Cannot find comment."**
* **details()**
  + Return the task's details in this format:

**"Name: {task\_name} - Due Date: {due\_date}"**

The **Section** class should receive a **name** (string) upon initialization. The Task also has **one instance attribute**: **tasks** (empty list)

The Section class should also have **four methods**:

* **add\_task(new\_task: Task)**
  + Add a **new task** to the collection. **Return "Task {task details} is added to the section"**
  + If the task **is in the collection**, return **"Task is already in the section {section\_name}"**
* **complete\_task(task\_name: str)** 
  + Change the task to completed(**True**). Return **"Completed task {task\_name}"**
  + If the task is not found, return **"Could not find task with the name {task\_name}"**
* **clean\_section()**
  + Removes all the **completed tasks** and returns **"Cleared {amount of removed tasks} tasks."**
* **view\_section()**
  + Return information about the section and its tasks in this format:

**"Section {section\_name}:**

**{details of the first task}**

**{details of the second task}**

**...**

**{details of the n task}"**

### Examples

|  |  |
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| **Test Code** | **Output** |
| task = Task("Make bed", "27/05/2020")  print(task.change\_name("Go to University"))  print(task.change\_due\_date("28.05.2020"))  task.add\_comment("Don't forget laptop")  print(task.edit\_comment(0, "Don't forget laptop and notebook"))  print(task.details())  section = Section("Daily tasks")  print(section.add\_task(task))  second\_task = Task("Make bed", "27/05/2020")  section.add\_task(second\_task)  print(section.clean\_section())  print(section.view\_section()) | Go to University  28.05.2020  Don't forget laptop and notebook  Name: Go to University - Due Date: 28.05.2020  Task Name: Go to University - Due Date: 28.05.2020 is added to the section  Cleared 0 tasks.  Section Daily tasks:  Name: Go to University - Due Date: 28.05.2020  Name: Make bed - Due Date: 27/05/2020 |