# LEARNING OBJECTIVES FOR THIS LESSON

* Daily Scrum Meeting – Day 3
* Code Refactoring

Pay attention to your lecturer and take notes. This worksheet is to be submitted as a team.

# TASKS FOR THIS LESSON

### **Daily Scrum – Day 3**

1. It is the beginning of Day 3 of the Sprint, conduct your Daily Scrum meeting and input the answers.
   * Everyone completes their tasks for Day 2.
   * However, as the codes are written in a rush, the team would like to allocate today (Day 3) to perform code refactoring.

|  |  |  |
| --- | --- | --- |
| **Member Name** | **Questions** | **Answer** |
|  | What did you do yesterday? |  |
| What will you do today? |  |
| Are there any impediments in your way? |  |
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1. Update the “Sprint1\_Backlog\_BurndownChart\_Day2.xlsx” file (from Lesson 10 Part B) with everyone’s work and save it as “Sprint1\_Backlog\_BurndownChart \_Day3.xlsx”.

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| (Task screen shot of the Updated Sprint Backlog and Paste in the box) |

1. Generate the Sprint Burn-down Chart for ResourceCentre project’s Sprint1 Day 3.

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| (Task screen shot of the Sprint Burn-down chart and Paste in the box) |

### **Code Refactoring**

1. Allocate the refactoring tasks to different members of your team.

|  |  |  |  |
| --- | --- | --- | --- |
| Refactoring ID | Code Smell | Refatoring Solution | Assign to |
| (A) | Magic numbers | Extract Constants | *<Student 1 name>* |
| (B) | Duplicate Codes | Extract Method | *<Student 2 name>* |
| (C) | Long Method + Duplicate Codes | Extract Long Methods | *<Student 3 name>* |
| (D) | Feature Envy + Duplicate Code | Extract Method | *<Student 4 name>* |
| (E) | Data Clamps | Extract Super Class | *<Student 5 name>* |
| (F) | Feature Envy + Duplicate Code | Extract Method | *<Student 6 name>* |

1. Remember to create a ***branch*** before you start to do your code refactoring.

Refer to Lesson 10 Part B **User Guide** for the steps to create a branch.

1. Watch the video in the student **Resources** folder on the refactoring of ResourceCentre project.

Look for your assigned refactoring task in the video and refactor your codes.

### **Test Cases**

1. With reference to the pytest codes given in the **Resources** folder, design the test cases for the newly created methods.
   * findAsset(assetTag)
   * getNotAvailableCemara()
   * getNotAvailableLaptop()

|  |  |  |
| --- | --- | --- |
| The function **findAsset(assetTag)** search the inventory and return the asset tag number if found.  The function will return None if not found. | | |
| **No.** | **Unit Test Case** | **Expected Result** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

|  |  |  |
| --- | --- | --- |
| The function **getNotAvailableCemara()** and **getNotAvailableLaptop()** return a string of cameras and laptops that are on loaned. | | |
| **No.** | **Unit Test Case** | **Expected Result** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

### **Lesson Deliverables**

1. ***Merge*** all the team members’ branches into the main branch after the team has completed the refactoring tasks and passed all the pytest test cases.

Screen capture the **Github commit history** and paste it below.

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1. Paste in the box below the URL of the team’s GitHub repository of the ResourceCentre codes.

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