# Casual Use Case Specification: UC10 Maintain Project Schedule

**Brief Description: This use case enables the project manager and labourers to maintain the Project Schedules**

# Section 1: Business Rule(s):

BR 31: Only managers can add new projects

BR 32: Only managers can edit project deadlines

BR 33: Labourers can only query milestones they are assigned to

# Section 2: Scenarios (HD):

**Scenario 1: The project manager creates a new project, creates a milestone for the created project**

# Preconditions: The project manager has entered their log in credentials, the system displays available options

| **Step#** | **Actor (Project Manager)** | **System** | **Data Used** |
| --- | --- | --- | --- |
| 1 | Selects the ‘Add Project’ option | Displays blank fields to be entered with Project’s information. |  |
| 2 | Enters Project information  -Name  -Managers leading the project  -Description of project  -Customer  -Products required  Amount of products required  -Services required  Hours of service needed  -Labourers | Prompts for confirmation. |  |
| 3 | Confirms | Validates the information received.  -Name field is not blank  -At least one manager is added  -Description not blank  -If products required is not empty, entries is within the product list  Amount of product is not zero or empty if  product required is not empty  - If services required is not empty, entries is within the product list  Hours of service is not zero or empty if  services required is not empty  -At least one labourer is added  Information received validated, generates an ID number for the project.  Project entry added to the list.  Proceeds to the ‘Add milestone’ option for the entered project, displays blank fields to be entered with milestone’s information. | List of projects  -Name  -Managers leading the project  List of employees  -Employee ID  -Products required  Amount of products required  -Services required  Hours of service needed  List of Products  List of Services  List of Labourer |
| 4 | Enters milestone information  -Name  -Labourers responsible for milestone  -Due date | Validates the information received.  -Name field is not blank  -At least one labourer is added  -Due date is of valid format, and is not of a past date  Information received validated, generates an ID number for the milestone.  Milestone entry added to the project.  Displays blank fields to be entered with milestone’s information. | List of labourers  - Labourer ID  List of milestones  -Name  - Labourers responsible for milestone  -Due date |
| 5 | Selects ‘Exit’ option | System displays available options. |  |
| 6 | Selects ‘Exit’ option | Displays a farewell message, prompts the user to enter their log in credentials. |  |

**Successful Post-Conditions:**

A new project as well as a milestone for the created project has been successfully added.

**Scenario 2: The project manager successfully edits the due date for a milestone**

# Preconditions: The project manager has entered their log in credentials, the system displays available options

| **Step#** | **Actor ( )** | **System** | **Data Used** |
| --- | --- | --- | --- |
| 1 | Selects the ‘Edit Project’ option | Displays the list of projects that are currently active, prompts user to select a project. | List of projects |
| 2 | Selects the desired project | Prompts the user to select to either edit project details or to edit milestone details. |  |
| 3 | Selects ‘Edit milestone details’ | Displays the list of milestones for the project, prompts user to select a milestone. | List of milestones |
| 4 | Selects the desired milestone | Displays fields with data within the milestone  -Name  -Labourers responsible for milestone  -Due date | -Name  - Labourers responsible for milestone  Labourer ID  - Labourers responsible for milestone  -Due date |
| 5 | Edits the due date of the milestone | Prompts for confirmation. |  |
| 6 | Confirms | Validates the information received.  -Name field is not blank  -At least one labourer exists  -Due date is of valid format, and is not of a past date  Information received validated.  Information for the milestone is updated.  Returns user to the list of milestones, prompts user to select a milestone. | -Name  - Labourers responsible for milestone  Labourer ID  - Labourers responsible for milestone  -Due date |
| 7 | Selects ‘Exit’ option | Prompts the user to select to either edit project details or to edit milestone details. |  |
| 8 | Selects ‘Exit’ option | Displays the list of projects that are currently active, prompts user to select a project. | List of projects |
| 9 | Selects ‘Exit’ option | System displays available options. |  |
| 10 | Selects ‘Exit’ option | Displays a farewell message, prompts the user to enter their log in credentials. |  |

**Successful Post-Conditions:**

The due date for the milestone has been edited.