# Use case descriptions

| Use case | Create a new project and assign team |
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| **Summary** | Add a new project to the system, add team members and assign their roles |
| **Actor** | Project creator |
| **Precondition** | There is a list where the information can be added |
| **Postcondition** | A project has been created. Team member(s) has been added. Roles of members have been set. |
| **Base sequence** | 1. Show overview of projects created or empty list if no projects have been added<br>If ADD go to step **2**<br>If ASSIGN go to step **7**<br><br>ADD<br>2. Select to create project<br>3. Enter a title, deadline, a unique ID for customer and a description for the project<br>4. System validates data and prompts for illegal values or if the given title/ID is already used. In this case repeat step 3 again, typing or editing input<br>5. Save the project<br>6. System displays project data<br><br>End of use case for ADD<br><br>ASSIGN<br>7. Select the created project<br>8. Select to add a team member<br>9. Enter a name and ID for team member<br>10. System validates data and prompts for illegal values or if the given name/ID is already used. In this case repeat step 8 again, typing or editing input<br>11. Select to assign a role from a list containing: product owner, scrum master, team member<br>12. Save changes<br>13. System displays team member data in form of a list<br><br>End use case for ASSIGN |

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| **Exception sequence** | - |
| **Note** | Changes can be made to the project information after creation if needed. The process can be canceled at any time. This Use case covers requirements 1, 16 |

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| **Use case** | **Change team of an already created project** |
| **Summary** | Change or remove team members from an already created project |
| **Actor** | Project creator |
| **Precondition** | A project has been created with team members |
| **Postcondition** | New team members have been assigned. A team members role has been changed or removed |
| **Base sequence** | 1. System shows an overview of projects created (or empty if not there) <br> 2. Select project you wish to edit or remove team members for <br> 3. System displays the selected project's team <br> If EDIT go to step **4** <br> If REMOVE go to step **9** <br><br> EDIT: <br> 4. Select the team member you wish to change role <br> 5. Select to change role <br> 6. Assign a new role to the team member from a list containing: product owner, scrum master and team member <br> 7. System checks if a Scrum master or Product owner role has already been assigned and, in this case, an error will be displayed stating that "you can only add one and only one Scrum master and Product owner". The user is asked to select a valid role. <br> 8. If everything is valid a new role has been assigned to the selected team member <br> End of use case for EDIT <br><br> REMOVE: <br> 9. Select the team member you wish to remove from the project <br> 10. Select to remove the desired team member <br> 11. Verify that you wish to remove the selected team member <br> 12. The team member has been removed <br> End of use case for REMOVE |

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| **Exception sequence** | |
| **Note** | The process can be cancelled at any time<br>This Use case covers requirements 13 |

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| **Use case** | **Manage requirements** |
| **Summary** | Add, show, remove, edit requirement data |
| **Actor** | Team member |
| **Precondition** | A project has already been created and selected |
| **Postcondition** | A new requirement has been added, data for an existing requirement has been shown, deleted or updated |
| **Base sequence** | If SHOW go to step **4**<br>If EDIT go to step **5**<br>If REMOVE go to step **9**<br><br>ADD:<br>    **1.** If adding a new requirement then enter values for<br>        a) Id<br>        b) User story text<br>        c) A type (Functional, Non-functional or Project related)<br>        d) Estimated time for the process work<br>        e) Total hours worked on the requirement<br>        f) Deadline<br>        g) Responsible team member<br>    **2.** The system validates data and prompts for illegal. In this case repeat step 1.<br>    **3.** If input is valid then the system creates a requirement with the given data and adds it to the project.<br>End the use case for ADD.<br><br>SHOW (and EDIT, REMOVE):<br>    **4.** System shows a list of all requirements in the project with information a) - e) presented in step 1.<br>    **5.** Select a requirement<br>End of use case for SHOW.<br><br>EDIT:<br>Step **4** and **5** as above and then:<br>    **6.** Enter or edit values for the requirement:<br>        a) Values from a-g if needed<br>        b) Select to set status from the list:<br>            • Started |

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|  | - Ended<br>- Approved<br>- Rejected<br>**7.** The system validates the values entered. If wrong format, then go to step **6** again<br>**8.** The system updates the selected requirement in the project.<br>End of use case for EDIT.<br><br>REMOVE:<br>Step **4** and **5** as above and then:<br>**9.** Select to delete requirement<br>**10.** Verify deleting the selected requirement<br>End of use case for REMOVE. |
| **Exception sequence** | Step **2** is an exception sequence to see if the data entered is valid e.g. the id is not unique for the requirement |
| **Note** | Step **9** will show a warning as "Are you sure you want to remove the following requirement?"<br>When creating the requirement, total hours worked will automatically be set to 0 and it will update once the system will set the sum of the hours worked on the related tasks<br>When creating a requirement, the status will automatically be set to "Not Started"<br>The process can be cancelled at any time.<br>This Use case covers requirements 2, 3, 7, 8, 9 ,19 |

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| Use case | Manage tasks |
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| **Summary** | Add, show, edit and remove tasks |
| **Actor** | Team member |
| **Precondition** | A requirement has already been added to the project. |
| **Postcondition** | A task has been added, data for task has been shown or updated or an existing task has been removed from the requirement. |
| **Base sequence** | If SHOW go to step 4<br>If EDIT go to step 5<br>If REMOVE go to step 7<br><br>ADD:<br>**1.** If adding a new task enter the values for:<br>   a) Id of related requirement<br>   b) Task id<br>   c) Title or description<br>   d) Estimated time for completion<br>   e) A deadline<br>   f) Responsible team member |

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| | 2. The system validates data and prompts for illegal values. In this case repeat step 2 |
| | 3. If input is valid then the system creates a task with the given data and adds it to the requirement |
| | End the use case for ADD. |
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| | SHOW (and EDIT, REMOVE): |
| | 4. System shows a list of all tasks in the requirement with information a) - f) presented in step **1** and new data added in step **6**. |
| | 5. Select a task |
| | End of use case for SHOW. |
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| | EDIT: |
| | Step **4** and **5** as above and then: |
| | 6. Enter or edit values for the task: |
| |    a) Values from a-f if needed |
| |    b) Select to set status from the list: |
| |       • Started |
| |       • Ended |
| | 7. The system updates the selected task in the requirement. |
| | End of use case for EDIT. |
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| | REMOVE: |
| | Step **4** as above and then: |
| | 8. Select to remove task |
| | 9. Verify removing the selected task |
| | End of use case for REMOVE. |
| **Exception sequence** | Step **1** is an exception sequence to see if the data entered is valid e.g. the id is not unique for the task |
| | Step **6** is an exception sequence to see if the data entered is valid |
| **Note** | The process can be cancelled at any time. |
| | When creating a task, the status will automatically be set to "Not Started" |
| | This Use case covers requirements 4, 11, 12 |

| Use case | **Register time** |
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| **Summary** | Input time spent on tasks |
| **Actor** | Team member |
| **Precondition** | The task has been added and completed by a team member |
| **Postcondition** | Precise time spent working on task has been added |
| **Base sequence** | 1. System shows an overview of created projects<br>2. Select a project<br>3. System displays project's requirements<br>4. Select requirement<br>5. Select task<br>6. Select to register time and team member who worked on the task<br>7. Input the amount of hours worked on the task and the team member who worked on the task<br>8. The system validates data and prompts for illegal values or if the team member is already added. In this case repeat step 7<br>9. If input is valid select to save the input<br>10. The system adds the time spent on a task and the team member who has worked on it<br>11. The system updates the following data:<br>    a) The total number of hours spent working on all tasks for a requirement and sets it as the sum for the requirement<br>    b) The team member who worked on the task<br>    c) The total number of hours spent working on all requirements for the project and sets it as the sum for the project |
| **Exception sequence** | Step **7** is an exception sequence if input value is illegal. |
| **Note** | The process can be cancelled at any time<br>This Use case covers requirements 5, 15 |

| Use case | Search project information |
|---|---|
| Summary | Enables the user to search for specific projects to show their information |
| Actor | Team member |
| Precondition | The specified project must have already been created in the system |
| Postcondition | Shows all information regarding the project searched for |
| Base sequence | 1. Select to search the project<br>2. Input the project title<br>3. The system then searches for a project with the given title and returns either true or false<br><br>If TRUE go to step **4**<br>If FALSE go to step **5**<br><br>TRUE:<br>4. The system displays information in form of a list of requirements with status, estimated and used time belonging to the project found<br>End of use case for TRUE<br><br>FALSE<br>5. The system displays an error message saying no project with the specified title could be found<br>6. Go to step **2**<br>End of use case for FALSE |
| Exception sequence | Step **2** is an exception sequence if there is no project with the search string's title. |
| Note | - The process can be cancelled at any time<br>- If the system finds a project from the input, it is TRUE<br>- If the system does not find a project from the input, it is FALSE<br>- The system can have the option to search by employee.<br>This Use case covers requirements 10, 14, 17, 18 |

| Use case | **View information about projects** |
|---|---|
| **Summary** | Show information about a specific project |
| **Actor** | Customer |
| **Precondition** | A project has already been created and linked with the webpage |
| **Postcondition** | The necessary data can be accessed by the customer at any time |
| **Base sequence** | 1. System lists all projects<br>2. Select a project for more details<br>3. Selected page shows all needed information regarding the projects such as description and all requirements with a status.<br>4. Return to the landing page |
| **Exception sequence** | - |
| **Note** | - The work on the project has not started, therefore the information is not available<br>- There is no need for the customers to log in on the website as the information provided is not restricted nor confidential<br>- The website should consist of multiple pages<br>- No access to tasks, actual time spent and no information about team members for customers<br>This Use case covers requirement 6 |