## **Use case template**

**Space missions management system**

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| ID and name | **UC-1: Assigning space missions** | | |
| Primary actor | Space agency manager | Secondary actors | Space engineers |
| Description | A space agency manager access the menu and gives to any space engineer a mission to complete with a deadline; any previous missions that were completed can be validated by him | | |
| Trigger | A space agency manager indicates that he wants to assign a mission | | |
| Preconditions | PRE – 1 The manager is logged in the system | | |
| Postconditions | POST – 1The Mission is stored in the mission table  POST – 2 The table with the unfinished missions is updated  POST – 3 The mission is shown to the space engineer | | |
| Normal flow | 1. **Assigning one mission to one engineer** 2. Manager asks to see the list with the space engineers 3. SMMS displays the list 4. The Manager selects the engineer he want to assign a mission to 5. SMMS opens the window for mission registrations 6. The Manager completes the form for the mission 7. SMMS confirms the mission as being one correct 8. SMMS stores the missions, and update the engineer interface with the proper updates | | |
| Alternative flows | * 1. **Assigning one mission to multiple engineers**  1. Manager selects multiple engineers 2. The flow continues from 4.0 as normal | | |
| Exceptions | **1.0.E1 no engineer selected**  1.0.3. SMMS informs that no space engineer was selected and the flow returns to step 1.0.2  **1.0.E2 the time mission too short (less than 4 weeks – illegal)**  1.0.6 SMMS informs the user that the time selected for the completion of mission is too short | | |

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| ID and name | **UC – 2 Solving the mission** | | |
| Primary actor | Space engineer | Secondary actors | Space agency manager |
| Description | A space engineer checks their missions and updates the status by uploading a file with a resume | | |
| Trigger | A space engineer indicates that they have complited a mission | | |
| Preconditions | PRE – 1 The space engineer is logged in the SMMS  PRE – 2 The Mission is assigned by the space agency manager | | |
| Postconditions | POST – 1 The file has been uploaded in the system  POST – 2 The table with unfinished missions is updated for the space engineer  POST – 3 The table with finished missions is updated for the agency manager | | |
| Normal flow | 1. **Finishing one mission**   1.The engineer asks to see the available missions  2. SMMS displays the list  3.The engineer selects the mission he wants to finish  ` 4.SMMS opens the window for mission registrations  5.The engineer uploads the file for the mission  6. SMMS confirms the file as being uploaded  SMMS stores the missions, and update the engineer interface with the proper updates | | |
| Alternative flows | **2.1Viewing the missions**  1.The engineer asks to see the available missions  2. SMMS displays the list | | |
| Exceptions | **2.0.E1 No file has been uploaded**  2.0.5 SMMS indicated that no file has been uploaded and the flow returns to 2.0.4 | | |

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| ID and name | **UC – 3 Log in** | | |
| Primary actor | Any User | Secondary actors | App system |
| Description | Allows the users to log in in the system to access different menu ( manager or engineer) by using credentials | | |
| Trigger | Opening the app | | |
| Preconditions | PRE – 1 The user to exists in the database | | |
| Postconditions | POST – 1 the interface to change to different menus | | |
| Normal flow | **3.0 Log in in the system**  1. SMMS displays a form to log in  2. User enters the credentials  3. SMMS validates the credentials  4. SMMS displays the new menu, for to each user | | |
| Alternative flows |  | | |
| Exceptions | **3.0.E1 The credentials do not correspond to any user**  3.0.3 SMMS indicates that there is no user with such credentials and the flow goes back to 3.0.1 | | |