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| *Version* | *Date* | *Author* | *Description of change* |
| 1 | 12/05/2021 | Valentina Hummenberger | Create Use Case “Login”, Use Case “Create Exemplar” and “Edit User Profile” |

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| Use Case Login |

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| Use Case: | *Login* |
| ID: | *UC-001* |
| Description: | *Log into the Exemplar Management System* |
| Actors: | *User/Contributor* |
| Stakeholders and Interests: | *Users* |
| Trigger | *The use case is triggered by clicking on the “Login” button after starting the application* |

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| **Pre-Conditions** |

The Person who would like to log into the Exemplar Management System must already have created an user account since one cannot log into the system as a guest.

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| **Post-Conditions** |

After successfully logging into the Exemplar Management System the User/Contributor arrives at the Home tab where he/she can view his/her Exemplars and Communities, create new Exemplars or edit his/her user information.

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| **Success end condition** |

The process has been successful if the User/Contributor entered a valid username and the corresponding password and thus arrives at the Home Tab where he/she can access the user information and his/her Exemplars and Communities.

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| **Failure end condition:** |

The process has not been successful if an error occurs. This happens when the User/Contributor enters an invalid username and/or password.

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| **Main Success Scenario:** |

1. The User/Contributor starts the application

2. The User/Contributor enters his/her username

3. The User/Contributor enters his/her password

4. The Contributor clicks on the “Login” button

5. If the username and password were valid the user arrives at the Home tab

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| **Alternative Flow and Exceptions:** |

1b. The User/Contributor starts the application

2b. The User/Contributor enters an invalid username

3b. The User/Contributor enters his/her password

4b. An error message occurs (“Invalid username or password”)

5b. The User/Contributor stays at the login screen and can try again

1c. The User/Contributor starts the application

2c. The User/Contributor enters his/her username

3c. The User/Contributor enters an invalid password

4c. An error message occurs (“Invalid username or password”)

5c. The User/Contributor stays at the login screen and can try again

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| **Non-Functional Requirements:** |

Efficient and up to date security measures should be in place in order to avoid account abuse. Thus, the User/Contributor should not be able to enter more than 3 invalid passwords for a username.

In addition, the login process should not take longer than 3 seconds.

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| Use Case Create Exemplar |

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| Use Case: | *Create Exemplar* |
| ID: | *UC-002* |
| Description: | *Add Exemplar to Exemplar Management System* |
| Actors: | *Contributor* |
| Stakeholders and Interests: | *Users* |
| Trigger | *The use case is triggered by clicking on the “Create New” Button in the Home Tab which can be found at the end of the page on the left side.* |

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| **Pre-Conditions** |

The Person who would like to contribute an Exemplar to the Exemplar Management System hast to create an account first. Furthermore, the person has to register as a Contributor (and not as a mere User) since only Contributors are able to add Exemplars to the System. Finally, the person has to be logged in.

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| **Post-Conditions** |

After adding a new Exemplar the by clicking on the “Create New” Button either a new Exemplar is created and added to the Exemplar Management System or an error occurs if an Exemplar with the same title already exists or illegal characters were used when entering the Exemplar title.

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| **Success end condition** |

The process has been successful if the Exemplar was added to the Exemplar Management System and thus can be accessed via the Exemplar Library and is also listed among the Contributor’s Exemplars.

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| **Failure end condition:** |

The process has not been successful if an error occurs. This happens when the Contributor tries to create an Exemplar which already exists (which means that they have the same title) or if the Contributor uses illegal characters when entering the Exemplar’s title. The Contributor may not use a “/” character or a space-character. In this case, the Exemplar will not be added to the Exemplar Management System and should not appear in the Exemplar Library.

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| **Main Success Scenario:** |

1. The Contributor starts the application

2. The Contributor creates an account by clicking at the “Register” button

3. The Contributor enters username, his/her full name and chooses a password

4. The Contributor opts for being a “Contributor”

5. The Contributor confirms the process by clicking on the “Submit” button

6. The Contributor automatically arrives at the Home Tab, where he/she clicks on the “Create new” button

7. The Contributor enters a title for the new Exemplar which does not include illegal characters

8. The Contributor clicks on the “Create” button

9. A new Exemplar is added to the Exemplar Management System

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| **Alternative Flow and Exceptions:** |

1a. The Contributor starts the application

2a. The Contributor enters his username and password

3a. The Contributor clicks on the “Login” button

4a. The Contributor arrives at the Home Tab, where he/she clicks on the “Create new” button

5a. The Contributor enters a title for the new Exemplar which does not include illegal characters

6a. The Contributor clicks on the “Create” button

7a. A new Exemplar is added to the Exemplar Management System

1b. The Contributor starts the application

2b. The Contributor enters his username and password

3b. The Contributor clicks on the “Login” button

4b. The Contributor arrives at the Home Tab, where he/she clicks on the “Create new” button

5b. The Contributor enters a title for the new Exemplar which includes illegal characters

6b. The Contributor clicks on the “Create” button

7b. An error occurs

8b. The Exemplar is not added to the Exemplar Management System

1c. The Contributor starts the application

2c. The Contributor enters his username and password

3c. The Contributor clicks on the “Login” button

4c. The Contributor arrives at the Home Tab, where he/she clicks on the “Create new” button

5c. The Contributor enters a title for the new Exemplar which is already taken by another Exemplar

6c. The Contributor clicks on the “Create” button

7c. An error occurs

8c. The Exemplar is not added to the Exemplar Management System

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| **Non-Functional Requirements:** |

The Exemplar Management System has to inform the Contributor which characters he or she is not allowed to use when entering the Exemplar’s title to avoid system errors. In addition, the contributor should always receive an explanation if an error occurs to avoid misunderstandings.

The system should not take longer than 3 seconds to respond when creating a new Exemplar.

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| Use Case Edit User Profile |

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| Use Case: | *Edit User Profile* |
| ID: | *UC-003* |
| Description: | *Make changes to one’s user profile* |
| Actors: | *User/Contributor* |
| Stakeholders and Interests: | *Users* |
| Trigger | *The use case is triggered by clicking on the “Update” button in the Home tab, which can be found on the right hand side* |

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| **Pre-Conditions** |

The User/Contributor who would like to update his/her profile must already have created an account. Plus, the User/Contributor has to be logged in in order to change his/her user information.

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| **Post-Conditions** |

After updating the user information as desired and clicking on the “Update” button the User/Contributor receives a message which states that the changes were successful and the user information is updated accordingly. Other users can see the updated information when visiting the Contributor dashboard.

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| **Success end condition** |

The process has been successful if the User/Contributor entered a new full name and/or a new password - under the condition that the value entered in the field “old password” is valid. If the update was successful the User/Contributor is informed about the success through a popup message.

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| **Failure end condition:** |

The process has not been successful if an error occurs, which happens when the User/Contributor enters an invalid value for the field “old password”. In this case the User/Contributor receives a message which states that the old password was not correct.

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| **Main Success Scenario:** |

1. The User/Contributor starts the application

2. The User/Contributor enters his username and password

3. The User/Contributor clicks on the “Login” button

4. The User/Contributor arrives at the Home Tab where he/she can see the text fields for “full name”, “old password” and “new password” at the upper right hand side of the page

5. The User/Contributor enters a new full name and/or a new password

6. The User/Contributor enters his/her old password

7. The User/Contributor clicks on the “Update” button

8. The User/Contributor receives the message “Update successful”

9. The user information of the User/Contributor has successfully been changed

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| **Alternative Flow and Exceptions:** |

1a. The User/Contributor starts the application

2a. The User/Contributor enters his username and password

3a. The User/Contributor clicks on the “Login” button

4a. The User/Contributor arrives at the Home Tab where he/she can see the text fields for “full name”, “old password” and “new password” at the upper right hand side of the page

5a. The User/Contributor enters a new full name and/or a new password

6a. The User/Contributor enters an invalid old password

7a. The User/Contributor clicks on the “Update” button

8a. The User/Contributor receives the message “Old password not correct”

9a. The user information of the User/Contributor will not be changed and the User/Contributor can try again

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| **Non-Functional Requirements:** |

Efficient and up to date security measures should be in place in order to avoid account abuse.

Therefore, the User/Contributor must have a limited number of attempts for entering his/her old password.

Due to security reasons, the system must also make sure that the new password chosen by the User/Contributor is safe.

Furthermore, the system must not take longer than 3 seconds to update a User/Contributor profile.