**eShop: Use Case Description**

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| **Use Case Number: 1** | | |
| **Name** User Profile CRUD | | |
| **Brief description** This use case allows the admin to create profiles for faculty and student | | |
| **Actors** Admin | | |
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| **Preconditions** | | |
| The admin must logged in to the system | | |
| **Flows of Events:** | | |
| **1. Basic Flows** | | |
| **1.1.0 Create Faculty Profile** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin calls the create faculty profile command | The system displays the faculty profile form with the fields for firstname, lastname, email, password, specializations, courses and blocks. |
| 2 | The Admin fills out the form and requests the system to save the details | The system verifies that there’s no other profile in the database with the same email address and saves the faculty and returns the success message on success or a fail message in case of failure. In case another profile exists with the email address, the system returns the message indicating a duplicate entry exists. |
| **Postconditions** | | |
| The staff profile is persisted in the system | | |
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| **Business Rules** | | |
| No duplicate faculty profiles. A unique profile is identified by email address. | | |
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| **1.1.1 Read/view Faculty Profile** | | |
| **Step** | **User Actions** | **System Actions** |

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| 1 | The admin selects to view a list of faculty profiles | The system returns a list of all faculty profiles. |
| 2 | The admin selects to view a profile of one of the faculty from the list of profiles | The system returns the profile of the faculty as a string with the names (firstname and lastname), email, specializations, courses and the blocks of preference. |
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| **1.1.2 Update Faculty Profile** | | |
| **Step** | **User Actions** | **System Action** |
| 1 | The admin selects to view a list of faculty profiles | The system returns a list of all faculty profiles. |
| 2 | The admin selects the profile of the faculty they want to update | The system displays an editable faculty profile form pre-populated with the faculty profile details |
| 3 | The admin updates the fields they want to update and requests system to save the new details | The system updates the record and returns the success message or a fail message on exception. |
| **Postconditions** | | |
| The staff profile will be updated | | |
| **Business Rule** | | |
| The email field should be unwritable. | | |
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| **1.1.3 Delete Faculty Profile** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin selects to view a list of faculty profiles | The system returns a list of all faculty profiles. |
| 2 | The admin selects to delete a faculty profile from a list of faculty profiles | The system displays a confirmation dialogue window |
| 3 | The admin selects OK on the confirmation dialog window to confirm deleting the profile | The system confirms the faculty is not assigned to any sections or blocks and deletes the profile. The system returns message a success message on success or a failure message. The system should return a message indicating the profile could not be deleted because it is already assigned to some blocks and sections |
| **Postconditions** | | |
| The staff profile will be deleted | | |
| **Business Rule** | | |
| Only a faculty profile that is not assigned to any blocks or sections. | | |
| **1.2.0 Create Student Profile** | | |

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| **Step** | **User Action** | **System Action** |
| 1 | The admin calls the create student profile command | The system displays the student profile form with firstname, lastname, registration number, email and initial password |
| 2 | The Admin fills out the form and requests the system to save the details | The system checks if no other student profile has the same registration number and email and saves the student, and displays a success message. The system returns a fail message on exception or a duplicate entry message in case of a duplicate. |
| **Postconditions** | | |
| The student profile is persisted in the system | | |
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| **Business Rules** | | |
| No duplicate student profiles. A unique profile is identified by email address and registration number. | | |
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| **1.2.1 Read/view Student Profile** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin selects to view a list of student profiles | The system returns a list of all student profiles. |
| 2 | The admin selects the profile they want to view. | The system returns the profile of the student as a string with names (firstname, lastname), registration number and email. |
| **1.2.2 Update Student Profile** | | |
| **Step** | **User Actions** | **System Action** |
| 1 | The admin selects to view a list of student profiles | The system returns a list of all student profiles. |
| 2 | The admin selects the profile of the student they want to update | The system displays back an editable form with the student profile details pre-filled. |
| 3 | The admin updates the parts they want to update and requests system to save the new details | The system updates the record and returns a success message or a fail message on exception. |
| **Postconditions** | | |
| The student profile will be updated | | |
| **Business Rule** | | |
| The registration number and email fields should be unwritable | | |
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| **1.2.3 Delete Student Profile** | | |

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| **Step** | **User Actions** | **System Actions** |
| 1 | The admin selects to view a list of student profiles | The system returns a list of all student profiles. |
| 2 | The admin selects to delete a student profile they want | The system displays a confirmation dialogue window |
| 3 | The admin selects OK on the confirmation dialog window to confirm deleting the profile | The system checks to confirm the student is not assigned to any sections and deletes the profile and returns a success message or a fail message on failure. It must also return a specific message when the student is assigned to some sections. |
| **Postconditions** | | |
| The student profile will be deleted | | |
| **Business Rule** | | |
| The student must have not been assigned to any of the sections. | | |
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| **Use Case Number: 2** | | |
| **Name** Course CRUD | | |
| **Brief description** This use case provides a functionality for managing courses | | |
| **Actors** Admin | | |
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| **Preconditions** | | |
| The admin must logged in to the system | | |
| **Flows of Events:** | | |
| **1. Basic Flows** | | |
| **1.0 Create Course** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin calls the create course command | The system displays the course form with name, code and pre-requisites |
| 2 | The Admin fills out the form and requests the system to save the details | The system verifies there’s no other course with the same code and saves the course and returns a success message or a fail message in case of an exception. It should return a specific message when a duplicate course exists. |
| **Postconditions** | | |
| The staff profile is persisted in the system | | |
| **Business Rule** | | |
| No two courses can have the same code. | | |
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| **1.1 Read/view Course** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin requests for a list of courses | The system returns a list of all courses. |
| 2 | The admin selects to view a course they want from the list. | The system returns the course object as a string with course code, and course name |
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| **1.2 Update Course** | | |
| 1 | The admin requests a list of courses | The system returns a list of courses. |
| 2 | The admin selects the course they want to update | The system displays an editable form with the course details |

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| 3 | The admin changes the parts they want to update and requests system to save the new details | The system updates the course and returns a success message or a fail message on exception. |
| **Postconditions** | | |
| The course details will be updated | | |
| **Business Rule** | | |
| The course code should be unwritable. | | |
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| **1.1.3 Delete Course** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin requests for a list of courses | The system returns a list of all courses. |
| 2 | The admin selects to delete a course from a list of courses | The system displays a confirmation dialogue window |
| 3 | The admin selects OK on the confirmation dialog window to confirm deleting the course | The system confirms the course is not assigned to any sections and deletes and returns a success message or a fail message on exception. |
| **Postconditions** | | |
| The course will be deleted | | |
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| **Business Rule** | | |
| The course must not have been assigned to some section | | |
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| **Use Case Number: 3** | | |
| **Name** Block CRUD | | |
| **Brief description** This use case provides a functionality for managing blocks | | |
| **Actors** Admin | | |
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| **Preconditions** | | |
| The admin must logged in to the system | | |
| **Flows of Events:** | | |
| **1. Basic Flows** | | |
| **1.0 Create Block** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin calls the create block command | The system displays the create block form with name, sequence number, start date and end date. |
| 2 | The Admin enters the block start and end dates, the block identifier number, and a name and requests the system to save the details | The system checks if there’s no other block with same name, start and end dates and saves the block and returns a success message or a fail message on failure. It should return a specific message when a duplicate block exists. |
| **Postconditions** | | |
| The block is persisted in the system | | |
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| **Business Rules** | | |
| A block must be unique. A unique block is identified by the name and the start and end dates | | |
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| **1.1 Read/view Block** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin requests for a list of blokcs | The system returns a list of all blocks. |
| 2 | The admin selects to view a block they want | The system returns the block object as a string with block name, start and end dates |
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| **1.2 Update Block** | | |
| 1 | The admin requests for a list of blocks | The system returns a list of all blocks. |
| 2 | The admin selects the block they want to update | The system displays back an editable form with |

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|  |  | the block details pre-populated |
| 3 | The admin changes the parts they want to update and requests the system to save the new details | The system updates the block record and returns a success message or a fail message on exception. |
| **Postconditions** | | |
| The block details will be updated | | |
| **Business Rule** | | |
| The name, start and end dates should be unwritable. | | |
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| **1.1.3 Delete Block** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin requests for a list of blocks | The system returns a list of all blocks. |
| 2 | The admin selects to delete the block they want | The system displays a confirmation dialogue window |
| 3 | The admin selects OK on the confirmation dialog window to confirm deleting the block | The system checks that the block is not linked to any section and deletes the it and returns a success message or a fail message on an exception. Otherwise, it will return a message indicating the block is associated to some sections. |
| **Postconditions** | | |
| The block will be deleted | | |
| **Business Rule** | | |
| The block must not be linked to some sections | | |
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