**1.1 Test Coverage**

The following section covers the testing phase of the project. Testing is a key concept when it comes to the delivery of a particular product. The reason being is that allows for the workers to assess the early problems in the software and to ensure that the requirements of top priority are managed, since these functionality may danger the overall software. The section is divided into different test categories:

* Tested Items
* Untested Items
* Unit testing
* Requirement testing

**Tested Items**: Defined as the features that were already tested. It results into two possible outcomes: pass or fail.

**Untested Items**: Defined as the features that were not already tested due to a specific reason which results into not prioritizing that particular matter.

**Unit Testing:** Defined as testing a small part of the software, in other words, a small part of the code is evaluated to see if it works.

**Requirements:** Defined as the essential functionality that a user, student and admin must be able to accomplish with the software at hand.

**1.1.1 Tested items**

**1.1.1.1 Requirements**

|  |  |  |
| --- | --- | --- |
| **Student & Admin** | | |
| **Feature** | **Use Case** | **Related Test Cases** |
| **Login/Logout** | **UC1, UC2** |  |
| **Reset Password** | **UC4** |  |
| **Edit account information** | **UC5** |  |

|  |  |  |
| --- | --- | --- |
| **Admin** | | |
| **Feature** | **Use Case** | **Related Test Cases** |
| **Add course to program** | **UC13** |  |
| **Delete course** | **UC14** |  |
| **Edit course** | **UC15** |  |
| **Add section** | **UC16** |  |
| **Edit section** | **UC17** |  |
| **Delete section** | **UC18** |  |

|  |  |  |
| --- | --- | --- |
| **Student** | | |
| **Feature** | **Use Case** | **Related Test Cases** |
| **Sign up** | **UC3** |  |
| **Set preferences** | **UC6** |  |
| **Set needed courses** | **UC7** |  |
| **Delete needed courses** | **UC8** |  |
| **Set taken courses** | **UC9** |  |
| **Delete taken courses** | **UC10** |  |
| **Generate schedule** | **UC11** |  |
| **View auto-generated list of taken courses** | **UC12** |  |

**1.1.1.2 Untested Items**

|  |  |
| --- | --- |
| **Student & Admin** | |
| **Confirm email** | **Too complex** |
| **Delete schedule** |  |
| **Change section** |  |
| **View default schedule** |  |
| **Save schedule** |  |
| **Print schedule** |  |
| **View schedule** |  |

**1.1.1.2 Units**

|  |  |
| --- | --- |
| **Unit** | **Tested?** |
| **Login/Logout/Sign up** | **Yes (Le Vinh)** |
| **Manage courses** | **Yes (Dias)** |
| **Manage preferences** | **Yes (Gabriele)** |
| **Manage account information** | **Maybe (Gabriele)** |
| **Manage course DB** | **No** |
| **Generate Schedule** | **No** |

**1.2 Test cases**

Insert intro here

**1.2.1 Unit testing**

Explanation

Unit test 1

Unit test 2

Unit test 3

**1.2.2 Requirements testing**

Explanation + black box testing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| UC1 | Login | | | | |
| ID | Description | Expected Output | Result | Bug ID | Comments |
| 1.1 | User inputs valid username and password | User is redirected to student main page |  |  |  |
| 1.2 | User inputs a valid password and "admin" username | User is redirected to admin main page |  |  |  |
| 1.3 | User inputs invalid username and/or password | "Incorrect password and/or username" |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| UC2 | Logout | | | | |
| ID | Description | Expected Output | Result | Bug ID | Comments |
| 2.1 | User clicks on "logout" button | User is redirected to student main page |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| UC3 | Sign up | | | | |
| ID | Description | Expected Output | Result | Bug ID | Comments |
| 3.1 | User inputs valid username, email and password. |  |  |  |  |
| 3.2 | User inputs a valid password and username, but an invalid email. |  |  |  |  |
| 3.3 | User inputs a valid password and email, but an invalid username. |  |  |  |  |
| 3.4 | User inputs "admin" as a username, with a valid password and email. |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| UC4 | Reset Password | | | | |
| ID | Description | Expected Output | Result | Bug ID | Comments |
| 4.1 | User clicks on "reset password" option on the login page, and inputs a valid email. |  |  |  |  |
| 4.2 | User clicks on "reset password" option on the login page, and inputs an invalid email. |  |  |  |  |