**Happy College**

**Student Management System**

Testing Plan & Log

February 6th, 2019

**Test Plan Overview**

Introduction

The following document has been created to outline 12 key functional use cases in our system, and design testing reports for each. Each functional use case will be broken down with detailed descriptions and detailed instructions on how to test each. Each use case will be tested and reported on by the development team managed by Jennifer Townsend.

Features not to be tested

Not to be Tested:

Admins ability to:

* Create another admin/faculty
* Update admin/faculty info
* Course report
* View Unfinished reports
* Change userlogin information
* Update enrollment information for students

Students ability to:

* Update their own personal information
* Drop courses

Admins ability to:

* Update their own personal information

Environmental needs

The following hardware and software are needed to run our program.

* ASP.NET Core 2.2 or above
* Angular 7 CLI
* Windows 7 or above
* Windows Server 2008 R2 SP1 (Full Server or Server Core) or above
* Visual Studio 2017 or above (or equivalent IDE i.e. Jetbrains Rider version 2018.1 or above)

Testing tasks & schedule (Who, When, Where, How)

Who: Development team managed by Jennifer Townsend

When: February 6th, 2019

Where: Holland College Campus Room 205 on lab computer

How: By running the application and inputted data in order to test the input data results (using provided mouse and keyboard)

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| **Test Case #: 1** | | | | | |
| **Test Description: Testing all log-in** | | | | | |
| **Use Case: Login to system** | | | | | |
| **Functional Requirements Tested: The ability to log into the system as all users** | | | | | |
| **Acceptance Criteria:**   * **Logging in as all types of users and having different home pages and different menu options depending on what type of user is logged in** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result: Pass** | | | | | |
| **Issues/Comments:** | | | | | |
| **Tested By: J. Townsend** | | | **Date Tested: Feb. 6th, 2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Login Screen🡪 | Enter  Username: Password: | For Faculty  testfaculty  password  For Student  teststudent  password  For Admin  dbrown32066  password | | Faculty Home page with current faculty info  Menu items: Home, Logout  Student Home page with test student info  Menu items:  Home, Make Payment, Course Registration, Logout  Admin home page with links on side and in menu bar, admin image  Menu Items:  Create User, View lists, Reports, Logout | Pass  Pass  Pass |

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| **Test Case #: 2** | | | | | |
| **Test Description: Faculty views roster for section** | | | | | |
| **Use Case: View section roster** | | | | | |
| **Functional Requirements Tested: The ability for faculty to see who is in their classes** | | | | | |
| **Acceptance Criteria:**   * **List of all student’s information shown for which ever section link has been clicked** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result: Pass** | | | | | |
| **Issues/Comments:** | | | | | |
| **Tested By: J. Townsend** | | | **Date Tested: Feb. 6th, 2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Login Screen🡪  Faculty Home🡪 | Resign in as testfaculty (see above)  Click on roster button beside CIS-1111 A | testfaculty  password  Button click | | Faculty Home loads  Populated list of all student’s information with links to update their course info | Pass  Pass |

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| **Test Case #: 3** | | | | | |
| **Test Description: Faculty can change students grade and course status** | | | | | |
| **Use Case: Faculty clicks update student** | | | | | |
| **Functional Requirements Tested:**   * **The ability for faculty to update student grade and course status** | | | | | |
| **Acceptance Criteria:**   * **Updated student grade and course status** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result: Pass** | | | | | |
| **Issues/Comments:** | | | | | |
| **Tested By: J. Townsend** | | | **Date Tested:Feb. 6th, 2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Faculty Home🡪  Roster Section🡪  Update page🡪 | Click on CIS-1111 A section to view  Click on update info button beside first  steve johanson  Put in grade  Changed Status | Button click  Button click  90  Completed | | Should show students in class roster  Should load update info page  Should return to faculty home. Click on CIS-1111 A and view roster. First steve’s information will be changed | Pass  Pass  Pass |

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| **Test Case #: 4** | | | | | |
| **Test Description: Student can make a payment** | | | | | |
| **Use Case: Student makes transactions** | | | | | |
| **Functional Requirements Tested:**   * **The ability for students to make a payment (simulated transaction)** | | | | | |
| **Acceptance Criteria:**   * **Students amount owing is changes according to payment made** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result: Pass** | | | | | |
| **Issues/Comments:** | | | | | |
| **Tested By: Pedra Minnis** | | | **Date Tested:06/02/2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Login Screen 🡪  Student Home🡪  Make Payment Screen🡪payment box | Sign is as teststudent  Click on Make payment option  Insert amount into payment amount box  Click make payment button | Username:  teststudent  Password:  password  Button click  Enter 2000  Button Click | | Student Home loads  Make payment screen loads  Should now show new amount owing ($4000) if the back button is clicked it will return to home where you can verify amount owing | Pass  Pass  Pass |

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| **Test Case #: 5** | | | | | |
| **Test Description: Student can register for courses** | | | | | |
| **Use Case: Student registers for courses** | | | | | |
| **Functional Requirements Tested:**   * **The ability for students to register for their own courses. A minimum of four courses must be done for each semester which will also add 4000 to amount owing** | | | | | |
| **Acceptance Criteria:**   * **Students will have courses added to their registry and amount owing will be updated** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result: Fail** | | | | | |
| **Issues/Comments: Wouldn’t allow adding of 4 courses. Student already registered in 7 courses.** | | | | | |
| **Tested By: Pedra Minnis** | | | **Date Tested: 6/02/2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Student Home🡪  Course selection page 🡪 | Click on Course registration menu option  Choose four  Available courses  Choose ok | Button click  Click arrow button beside all courses  Button Click | | Course registration screen loads  Courses should move from one box to the other  You will return to the student home page with all four courses in the registered section | Pass  Pass  Fail. Its working but there are 7 courses already registers, the system would not allow me add any more. I added one course. |

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| **Test Case #: 6** | | | | | |
| **Test Description: Admin can create a student** | | | | | |
| **Use Case: Admin creates student** | | | | | |
| **Functional Requirements Tested:**   * **The ability for admin to add students into the system** * **The ability for admin to sign in successfully** | | | | | |
| **Acceptance Criteria:**   * **After student is created, they will appear in student list** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result: Pass** | | | | | |
| **Issues/Comments:** | | | | | |
| **Tested By: Pedra Minnis** | | | **Date Tested: 6/02/2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Admin Home🡪  Student create page 🡪 | Choose create student from create user drop-down  Fill in form Data | Button Click  First Name: Juliet  Last Name:  Bernard  Date of Birth:  Choose date in year 1992  Address: 123 Fake Street  E-Mail: [blah@blah.com](mailto:blah@blah.com)  Program: Choose CIS | | Should load student create page  Go to the View lists drop-down and choose student list and verify existence of Juliet Bernard | Pass  Pass |

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| **Test Case #: 7** | | | | | | | | | |
| **Test Description: Use successfully generated username and password to log in as new student** | | | | | | | | | |
| **Use Case: Generate username and password** | | | | | | | | | |
| **Functional Requirements Tested:**   * **The ability for a username to be generated after student creation** * **The ability for a password to be generated after student creation** * **User login details table populated after student creation** | | | | | | | | | |
| **Acceptance Criteria:**   * **After student is created, their generated username and password will appear in userlogin, and will work to login as new user** | | | | | | | | | |
| **Special Requirements: NA** | | | | | | | | | |
| **Test Result: Pass** | | | | | | | | | |
| **Issues/Comments: It worked as expected,** | | | | | | | | | |
| **Tested By: Darcy Watts** | | | | | **Date Tested: Feb. 6th** | | | | |
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| **Test Case Details** | | | | | | | | | |
| **Screen/Field/Form** | **Action** | | **Data Value** | | | | **Expected Result** | | **Actual Result** |
| Admin Home🡪  User Login List🡪  Login Screen🡪 | Choose view User Login List from View Lists drop down  Look for user login starting with jberna + a random number (generated as username)  Copy username  Click logout  from menu  Note  If username is not immediately shown click the show 50 entries to see more usernames  Use username (copied) and password | | Button Click  Jberna+(random#)  Click show 50 entries  Username:  Jberna+#  Password: password | | | | Should show all userlogins list screen  User name will show up in userlogin list  Will open student home page showing the new student’s information  Should have no courses and no outstanding amount owing | | Pass  Pass  Pass |
| **Test Case #: 8** | | | | | | | | | |
| **Test Description: Admin is able to create a new course** | | | | | | | | | |
| **Use Case: generate new course** | | | | | | | | | |
| **Functional Requirements Tested:**   * **The ability for am admin to create new courses** * **The ability for courses to be listed and browsed** | | | | | | | | | |
| **Acceptance Criteria:**   * **After creating a new course, it will show up on the course list** * **Sections can be created under the newly created course** | | | | | | | | | |
| **Special Requirements: NA** | | | | | | | | | |
| **Test Result: Pass** | | | | | | | | | |
| **Issues/Comments: It was good** | | | | | | | | | |
| **Tested By: Darcy Watts** | | | | **Date Tested: Feb. 6th** | | | | | |
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| **Test Case Details** | | | | | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | | | **Expected Result** | | **Actual Result** | |
| Admin Home🡪  Course List Screen 🡪  Create Course Form🡪 | Choose Course List from View Lists drop down  Choose the create course button  Fill in form information for a new course  Click ok | Button Click  Click create course button  Course ID:  CIS-2226  Course Name  Testing 101  Department:  Choose CIS  Credits:  3 | | | | You will be sent to the course list page.  Should load course create screen  You should be sent to the course list page.  Notice the newly created course listed in the course listing | | Pass  Pass  Pass  Pass | |

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| **Test Case #: 9** | | | | | |
| **Test Description: Creating a new section under a newly created course** | | | | | |
| **Use Case: Create instance (section) of a course** | | | | | |
| **Functional Requirements Tested:**   * **The ability to create a new section** | | | | | |
| **Acceptance Criteria:**   * **After the section information is completed, the newly created section will appear in the section list and will be available for students to enroll in.** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result: Pass** | | | | | |
| **Issues/Comments: Section created** | | | | | |
| **Tested By: Sinem Muslu** | | | **Date Tested:Feb 6, 2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Admin Home🡪  Section List 🡪  Create Section Form🡪  Section List🡪 | Choose view Section List from View Lists drop down  Choose the create section button  Fill in section form data | Button Click  Button Click  Course ID:  Choose newly created course  Designation:  Choose A  Faculty ID:  Test Faculty  Start Date:  2019-06-01  End Date:  2019-08-30  Semester:  Summer  Vacancy:  30  Click Save | | Section list shows all sections  Should load section creation form  Prompted for Ok option (Click Ok)  Notice newly create section in list | Section created successfully |

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| **Test Case #: 10** | | | | | |
| **Test Description: Create a new Department as an admin user** | | | | | |
| **Use Case: Create a department** | | | | | |
| **Functional Requirements Tested:**   * **The ability to create a new department** | | | | | |
| **Acceptance Criteria:**   * **After the department is created you should be able to see the department in the department list page** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result:Pass** | | | | | |
| **Issues/Comments: It should give a message as Department added successfully** | | | | | |
| **Tested By:Sinem Muslu** | | | **Date Tested:Feb 6, 2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Admin Home🡪  Department List 🡪  Create Department Form🡪  Department List🡪 | Choose view Department List from View Lists drop down  Choose the create department button  Fill in section form data  Click Save | Button Click  Button Click  Department ID:  (Generated)  Department Name:  Testing | | Should load department list page  Should load department creation form  Prompted for Ok option (Click Ok)  Should be sent back to department list page  Notice newly create department in list | Department added |

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| **Test Case #: 11** | | | | | |
| **Test Description: Update Student information as admin** | | | | | |
| **Use Case: Update Student Info** | | | | | |
| **Functional Requirements Tested:**   * **The ability for admin to update a student’s info** * **Shows that admin have access to all user’s information for creation and updating** | | | | | |
| **Acceptance Criteria:**   * **After the student’s information is updated, their updated information will appear in the student list page** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result:Pass** | | | | | |
| **Issues/Comments: Updated successfully** | | | | | |
| **Tested By:Sinem Muslu** | | | **Date Tested:Feb 6, 2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Admin Home🡪  Student List 🡪  Update Student Form🡪  Student List🡪 | Choose view Students List from View Lists drop down  Choose the update button beside Juliet Bernard  Change some form data  Click Save | Button Click  Button Click  E-Mail:  juliet@julietiscool.com | | Should load students list page  Should load student info form with populated data  Prompted for Ok option (Click Ok)  Should be sent back to student list page  Notice newly changed student in list | Student information updated successfully |

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| **Test Case #: 12** | | | | | |
| **Test Description: Show students report by course as admin** | | | | | |
| **Use Case: create student listing report** | | | | | |
| **Functional Requirements Tested:**   * **The ability for admin to view all students** * **The ability for admin to view reports, specifically students listed by course and section** | | | | | |
| **Acceptance Criteria:**   * **After the student listing report is clicked it should prompt for course, then a report will be generated showing all students** | | | | | |
| **Special Requirements: NA** | | | | | |
| **Test Result:FAIL** | | | | | |
| **Issues/Comments: Report is not listed** | | | | | |
| **Tested By:Sinem Muslu** | | | **Date Tested:Feb 6, 2019** | | |
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| **Test Case Details** | | | | | |
| **Screen/Field/Form** | **Action** | **Data Value** | | **Expected Result** | **Actual Result** |
| Admin Home🡪  Student Listing Report Page 🡪 | Choose view Students Listing from Reports drop down  Choose the Generate report from all courses option  Click back | Button Click  Button Click  Button Click | | Should load students listing report page  Should load student listing report of all students sorted by course and section. Should have approx. 12 students in multiple courses  Should return you to the student listing page where you can generate more student reports | Report is not listed |