**Course Cast**

**Focused Use Cases**

**Version 2.0**

**Revision History**

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 11-14-07 | 1.0 | Focused Use Cases, Use Case Diagram, Activity Diagrams | XXXXXX |
| 12-5-07 | 2.0 | Update | XXXXXX |
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| **Use Case Number:** | **UC1** | |
| **Use Case Name:** | Maintain Planned Course Work | |
| **Actor (s):** | [*Student*](http://domainmodel.doc)*,* [*Advisor*](http://domainmodel.doc) | |
| **Maturity:** | Focused | |
| **Summary:**  ***Ghi chú: user (Mô tả tổng quát)*** | [*Students*](http://domainmodel.doc), or an [*Advisor*](http://domainmodel.doc) aiding a student, will create and maintain their [*student preferences*](http://glossary.doc) for future semesters. | |
| **Basic Course of Events:**  ***Ghi chú: System(Mô tả chi tiết)***  ***Chức năng đăng ký học phần có 8 action(hành động)*** | **Actor Action**  ***Hành động của sinh viên*** | **System Response**  ***Phản hồi hệ thống*** |
| 1. Perform **{Login Authentication}**   **Action: Query** |  |
|  | 1. System displays welcome page with main features for actor to choose from.   **Action: query** |
| 3. The use case begins when the Student actor selects to maintain planned coursework. **A1.**  ***A: Alternative***  **Action: Event process, Query** |  |
|  | 4. The system displays the [*student’s* *program of study*](http://glossary.doc) and also returns any previously planned [*course preferences*](http://glossary.doc).  **Action: query, show** |
| 5. The Student and Advisor actors select the future courses, term, day and time. (Repeat as many times as necessary.) **A2**  **Action query** |  |
| 6. The Actor selects to save the information. **A3, A4**  **Action query** |  |
|  | 7. The system validates the planned coursework entered by the Actor. **{Validate Planned Courses}**  **Action validate** |
|  | 8. The system updates the students planned coursework in the database and informs the actor that the information was updated successfully.  The use case ends.  **Action update** |
|  | |
| **Alternative Paths:**  ***Trường hợp khác*** | **A1.** | |
| **Actor Action** | **System Response** |
| 1. The Advisor actor enters the student’s [*UNFID*](http://glossary.doc) for the appropriate student. |  |
|  | 1. The system validates that the [*UNFID*](http://glossary.doc). **E2**   **E: Exception** |
| 3. The Advisor actor selects to maintain planned coursework. |  |
|  | Return to step 4 of the Basic Course of Events. |
| **A2.** An actor has the ability to review catalog information for a particular course when selected. | |
| **A3.** The actor has the ability to “Cancel” changes to return the information to the previously saved version. Returns to step 8 of Basic Course of Events. | |
| **A4.** The actor has the ability to “Reset” information which removes all planned coursework for a student. Returns to step 8 of Basic Course of Events. | |
| **Exception Paths:** | **E1.** At **{Validate Planned Courses}** if errors ([*prerequisites*](http://glossary.doc) not met, more than six [*courses*](http://glossary.doc) selected for a term, planning a [*course*](http://glossary.doc) that the [*student*](http://domainmodel.doc) has already passed), the system indicates the courses where there are errors.  Returns to Basic Flow Step 4.  **E2.**  If the system cannot find the [*UNFID*](http://glossary.doc) in stored data, the system informs the user that their [*UNFID*](http://glossary.doc) cannot be found and the actor is returned to step 1 of Alternate Path 1 (A1). | |
| **Extension Points:** | **Validate Planned Courses**  Review of the planned [*courses*](http://domainmodel.doc) compares against courses the student has already taken, currently registered for or future planned courses to verify that the [*student*](http://domainmodel.doc)has met the necessary [*prerequisites*](http://glossary.doc) or the [*prerequisite*](http://glossary.doc) is planned. (See Business Rule 2.1) **E1** | |
| **Triggers:**  **(liên đến)**  ***Chức năng này ảnh hương chức năng khác nhau như thế nào***  ***Vd: nhập kho -> cập nhật đơn đặt hàng*** | Actor wishes to input [*student preferences*](http://glossary.doc) for future semesters. | |
| **Assumptions:**  **Giả thiết: chức năng này thực hiện với điều kiện gì** | The Advisor will not make any changes without first consulting the Student. | |
| **Preconditions:** | None. | |
| **Post Conditions:** | The updated [*student preferences*](http://glossary.doc) are saved to stored data. | |
| **Reference: Business Rules** | 2.1, 2.7, 2.8, 2.9 2.10 | |
| **Author(s):** | XXXXX | |
| **Date:** | 11-14-07 | |
| **Activity Diagram:** Next Page | | |

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| **Use Case Number:** | **UC2** | |
| **Use Case Name:** | Generate Course Offerings | |
| **Actor (s):** | [*Advisor*](http://domainmodel.doc), [*Administration Representative*](http://domainmodel.doc) | |
| **Maturity:** | Focused | |
| **Summary:** | Administration will generate a[*course offering*](http://glossary.doc) for a future semester based off of [*student preferences*](http://glossary.doc). | |
| **Basic Course of Events:** | **Actor Action** | **System Response** |
| 1. Perform **{Login Authentication}** |  |
|  | 2. System displays welcome page with main features for actor to choose from. |
| 3. The Advisor or Administration Representative actor selects to generate a [*course offering*](http://glossary.doc). |  |
|  | 4. The system requests the [*semester*](http://glossary.doc)and year for which the [*course offering*](http://glossary.doc) will be generated. |
| 5. The actor inputs the [*semester*](http://glossary.doc) and yearfor which the [*course offering*](http://glossary.doc) will be generated. |  |
|  | 6. The system validates the entered [*semester*](http://glossary.doc) and year.  **E1, E2** |
|  | 7. The system calculates the [*course offering*](http://glossary.doc) for the selected [*semester*](http://glossary.doc) based on [*student preferences*](http://glossary.doc).  The calculation assigns weights to: number of [*students*](http://domainmodel.doc) who have planned a [*course*,](http://glossary.doc) the seniority of the [*student*](http://domainmodel.doc), differentiation between [*major requirements*](http://glossary.doc) versus [*elective requirements*](http://glossary.doc), and whether the *course* is used in multiple tracks. |
|  | 8. Based on the calculations and the [*students’*](http://domainmodel.doc) day and time preferences, the system displays this [*course offering*](http://glossary.doc) along with its [*course information*](http://glossary.doc). |
|  | 9. The system generates the [*student preferences*](http://glossary.doc) statistics for the parameters selected by the actor. It will include: [*course information*](http://glossary.doc), subtotals of time and day, and totals. |
| 10. The actor views the generated [*course offering*](http://glossary.doc).  **A1** |  |
|  |  |
| **Alternative Paths:** | **A1.** From this point the actor can select to print the generated [*course offering*](http://glossary.doc). After that is completed the actor is returned to the same point in the flow of events. | |
| **Exception Paths:** | **E1.** If the actor enters the [*semester*](http://glossary.doc) in an incorrect format the system prompts the user and requests another [*semester*](http://glossary.doc). Control returns to step 4 of the Basic Course of Events.  **E2.** If the actor enters a [*semester*](http://glossary.doc) that has already occurred, the system prompts the user and requests another [*semester*](http://glossary.doc). Control returns to step 4 of the Basic Course of Events. | |
| **Extension Points:** | None | |
| **Triggers:** | Actor wishes to generate a [*course offering*](http://glossary.doc). | |
| **Assumptions:** | [*Student preferences*](http://glossary.doc) have been entered into the system. | |
| **Preconditions:** | The actor possesses the correct authority level. | |
| **Post Conditions:** | A [*course offering*](http://glossary.doc) will be generated. | |
| **Reference: Business Rules:** | 2.3, 2.4, 2.5, 2.6, 2.7, 2.10 | |
| **Author(s):** | XXXXX | |
| **Date:** | 11-14-07 | |
| **Activity Diagram:** | | |

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| **Use Case Number:** | **UC3** | |
| **Use Case Name:** | Generate Statistics Report | |
| **Actor (s):** | [*Advisor*](http://domainmodel.doc)*,* [*Administration Representative*](http://domainmodel.doc) | |
| **Maturity:** | Focused | |
| **Summary:** | [*Advisors*](http://domainmodel.doc) or an [*Administration Representative*](http://domainmodel.doc) will generate a Statistics Reportbased on [*student preferences*](http://glossary.doc). | |
| **Basic Course of Events:** | **Actor Action** | **System Response** |
| 1. Perform **{Login Authentication}**. |  |
|  | 2. System displays welcome page with main features for actor to choose from. |
| 3. The Advisor or Administration Representative actor selects to generate Statistics Report. |  |
|  | 4. The system directs them to enter parameters. Parameters are: Semester, Year, Time and/or Day. |
| 5. The user enters the parameters. |  |
|  | 6. The system generates the [*student preferences*](http://glossary.doc) statistics based on information stored in the database for the parameters selected by the actor. It will include: [*course information*](http://glossary.doc), subtotals of time, day or both, and totals. |
| 6. The actor views the administrative report*.* The use case ends here.  **A1** |  |
|  |  |
| **Alternative Paths:** | **A1.** From this point the actor can select to print the generated Statistics Report. The use case ends here. | |
| **Exception Paths:** | None | |
| **Extension Points:** | None | |
| **Triggers:** | The actor wishes to generate Statistics Report. | |
| **Assumptions:** | [*Student preferences*](http://glossary.doc) have been entered into the system. | |
| **Preconditions:** | None | |
| **Post Conditions:** | A Statistics Report will be generated. | |
| **Reference: Business Rules** | None | |
| **Author(s):** | XXXXXX | |
| **Date:** | 11-14-07 | |
| **Activity Diagram:** | | |

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| --- | --- | --- | --- |
| **Use Case Number:** | **UC4** | | |
| **Use Case Name:** | Generate Student Report | | |
| **Actor (s):** | [*Student*](http://domainmodel.doc)*,* [*Advisor*](http://domainmodel.doc) | | |
| **Maturity:** | Focused | | |
| **Summary:** | Actors will be able to generate a report summarizing student[*course*](http://glossary.doc)history and future [*student preferences*](http://glossary.doc). | | |
| **Basic Course of Events:** | **Actor Action** | | **System Response** |
| 1. Perform **{Login Authentication}** | |  |
|  | | 2. System displays welcome page with main features for actor to choose from. |
| 3. The Student actor selects to generate the student report consisting of specific student information and the student’s course preferences.  **A1.** | |  |
|  | | 4. The system displays a summary of the [*student information*](http://glossary.doc) and future [*student preferences*](http://glossary.doc)*.*  **E1** |
| 5. The use case ends at this point.  **A2** | |  |
|  |  | | |
| **Alternative Paths:** | **A1.** | | |
|  | **Actor Action** | **System Response** | |
|  | 1. The Advisor actor enters the student’s [*UNFID*](http://glossary.doc) for the appropriate student. |  | |
|  |  | 2. The system validates that the [*UNFID*](http://glossary.doc). **E2** | |
|  | 3. The Advisor actor selects to generate the student report consisting of specific student information and the student’s course preferences. |  | |
|  |  | Return to step 4 of the Basic Course of Events. | |
|  |  | | |
|  | **A2.**  The actor can print the summary report. The use case ends at this point. | | |
|  |  | | |
| **Exception Paths:** | **E1.** The system is unable to retrieve and display the student’s information. The error is displayed to the user.  **E2.**  If the system cannot find the [*UNFID*](http://glossary.doc) in stored data, the system informs the user that their [*UNFID*](http://glossary.doc) cannot be found and the actor is returned to step 1 of Alternate Path 1 (A1). | | |
| **Extension Points:** | None | | |
| **Triggers:** | The actor wishes to generate student report. | | |
| **Assumptions:** | [*Student preferences*](http://glossary.doc) have been entered into the system. | | |
| **Preconditions:** | None | | |
| **Post Conditions:** | A student report may be generated. | | |
| **Reference: Business Rules:** | None | | |
| **Reference: Risks** | None | | |
| **Author(s):** | XXXXXX | | |
| **Date:** | 11-14-07 | | |
| **Activity Diagram:**  ` | | | |

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| --- | --- | --- |
| **Use Case Number:** | **UC5** | |
| **Use Case Name:** | Login Authentication | |
| **Actor (s):** | [*Student*](http://domainmodel.doc)*,* [*Advisor*](http://domainmodel.doc), [*Administration Representative*](http://domainmodel.doc) | |
| **Maturity:** | Focused | |
| **Summary:** | All actors will log in to Course Cast. Features are available to the actor according to [*User Type*](http://glossary.doc) i.e. [*Student*](http://domainmodel.doc)*,* [*Advisor*](http://domainmodel.doc), [*Administration Representative*](http://domainmodel.doc)*.* | |
| **Basic Course of Events:** | **Actor Action** | **System Response** |
| 1. The actor types their [*UNFID*](http://glossary.doc) and their [*Password*](http://glossary.doc). |  |
|  | 2. The system will retrieve the actor’s name and [*User Type*](http://glossary.doc) from the database for the supplied [*UNFID*](http://glossary.doc) and [*Password*](http://glossary.doc) thus beginning a [*Session*](http://glossary.doc).  **E1, E2** |
|  | 3. Feature availability reflects the [*user type*](http://glossary.doc).  [*Students*](http://domainmodel.doc) have access to:  Student Information  Course Planning  Log Off  [*Advisor*](http://domainmodel.doc) features:  Student Information  Course Planning  Course Offerings  Statistics  Log Off  [*Administration Representative*](http://domainmodel.doc) features:  Course Offerings  Statistics  Log Off |
|  | 4. The system redirects the actor to theHome page. |
| **Alternative Paths:** | None | |
| **Exception Paths:** | **E1.** If the system cannot find the [*UNFID*](http://glossary.doc) in the database, the system informs the user that their [*UNFID*](http://glossary.doc) cannot be found and the actor is returned to the beginning of the course of events. As in other UNF systems, there is no limit to the number of times a user may attempt to log in to Course Cast.  **E2.** If the system finds the [*UNFID*](http://glossary.doc) in the database but the actor supplied [*Password*](http://glossary.doc) does not match the [*Password*](http://glossary.doc) in the database for the [*UNFID*](http://glossary.doc), the system informs the user that their [*Password*](http://glossary.doc) is incorrect and the actor is returned to the beginning of the course of events. As in other UNF systems, there is no limit to the number of times a user may attempt to log in to Course Cast. | |
| **Extension Points:** | None | |
| **Triggers:** | The actor is visiting the website but has not yet begun a [*Session*](http://glossary.doc).  The actor’s [*Session*](http://glossary.doc) has timed out as a result of inactivity.  The actor has ended a [*Session*](http://glossary.doc) by selecting Log Off. | |
| **Assumptions:** | None | |
| **Preconditions:** | The actor is visiting Course Cast but does not have an active [*Session*](http://glossary.doc). Therefore the actor has been redirected to the Log On page. | |
| **Post Conditions:** | The actor has an active [*Session*](http://glossary.doc).  The actor is visiting the Home page.  The actor has the appropriate features available. | |
| **Reference: Business Rules** | 2.7, 2.8, 2.9, 2.10 | |
| **Author(s):** | XXXXXX | |
| **Date:** | 11-14-07 | |
| **Activity Diagram:** | | |