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| **USE CASE – STU001** | | | |
| **Use Case No.** | STU001 | **Use Case Version** | 1.0 |
| **Use Case Name** | View Profile | | |
| **Author** | Vu Nhat Anh Khoa | | |
| **Date** | 26/09/2015 | **Priority** | Normal |
| **Actor:**   * Student   **Summary:**   * This use case allows users to view their profile.   **Goal:**   * User’s profile information from database is shown on the screen.   **Triggers:**   * User can clicks either “Profile” tab on the navigation menu on the left, or the link labeled as their name at the top right of the screen.   **Preconditions:**   * User logs in with Student role   **Post Conditions:**   * **Success**: The system successfully shows user’s profile information * **Fail:** The system shows an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Profile” tab on the navigation menu on the left | Navigate user to their Profile screen and show information box containing detail information including:   * + User’s full name labeled as “Tên”: text.   + User’s code labeled as “MSSV”: text.   + User’s personal identification number labeled as “CMND”: text.   + User’s tuition status labeled as “Tình trạng”: text   + The year user started school labeled as “Khóa nhập học”: text   + User’s gender labeled as “Giới tinh”: text   + User’s day of birth labeled as “Ngày sinh”: text   + User’s address labeled as “Địa chỉ”: text   + User’s phone number labeled as “Số điện thoại”: text   + User’s email address labeled as “Email”: text   + The phone number of user’s parent labeled as “Số điện thoại của phụ huynh”: text   + The email address of user’s parent labeled as “Email của phụ huynh”: text |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks the link of their name at the top right of the screen | Navigate user to their Profile screen and show information box containing detail information including:   * + User’s full name labeled as “Tên”: text.   + User’s code labeled as “MSSV”: text.   + User’s personal identification number labeled as “CMND”.   + User’s tuition status labeled as “Tình trạng”: text   + The year user started school labeled as “Khóa nhập học”: text   + The English level when user started school labeled as “Tiếng Anh đầu vào”: text   + User’s gender labeled as “Giới tính”: text   + User’s day of birth labeled as “Ngày sinh”: text   + User’s address labeled as “Địa chỉ”: text   + User’s phone number labeled as “Số điện thoại”: text   + User’s email address labeled as “Email”: text   + The phone number of user’s parent labeled as “Số điện thoại của phụ huynh”: text   + The email address of user’s parent labeled as “Email của phụ huynh”: text |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error message: “Cannot connect to server.” |   **Relationships:** N/A  **Business Rules:**   * The system fetches user only their own profile information from the database. | | | |

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| **USE CASE – STU002** | | | |
| **Use Case No.** | STU002 | **Use Case Version** | 1.0 |
| **Use Case Name** | Update Profile | | |
| **Author** | Vu Nhat Anh Khoa | | |
| **Date** | 25/09/2015 | **Priority** | Normal |
| **Actor:**   * Student   **Summary:**   * This use case allows users to update their profile information.   **Goal:**   * New information is updated to database.   **Triggers:**   * User clicks “Edit information” link while on the Profile screen.   **Preconditions:**   * User logs in with Student role   **Post Conditions:**   * **Success**: The system successfully updates new information to database. * **Fail:** The system shows an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Edit information” link from Profile screen | Navigate user to Edit Profile screen and show the following form:   * + Label: “Số điện thoại”, textbox   + Label: “Địa chỉ”, textbox   + Label: “Số điện thoại của phụ huynh”, textbox   + Label: “Email của phụ huynh”, textbox   + Update button | | 2 | User alters the information in the form [Alternative Scenario] |  | | 3 | User clicks update button | * System updates new information to database. * Redirect user to Profile screen with new information presenting. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User empties the fields |  | | 2 | User clicks update button | * System keeps current information in database. * Redirect user to Profile screen with current information presenting. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error message: “Cannot connect to server.” |   **Relationships:** N/A  **Business Rules:**   * User’s profile is always loaded from the system * In successful scenario, new information will be updated to the system * Reloaded Profile screen will show updated information * If user leave the fields blank, current information will be kept. | | | |

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| **USE CASE – STU003** | | | |
| **Use Case No.** | STU003 | **Use Case Version** | 1.0 |
| **Use Case Name** | Change Password | | |
| **Author** | Vu Nhat Anh Khoa | | |
| **Date** | 25/09/2015 | **Priority** | Normal |
| **Actor:**   * Student   **Summary:**   * This use case allows users to change their password accounts.   **Goal:**   * New password is updated to database.   **Triggers:**   * User clicks “Đổi password” link while on the Profile screen.   **Preconditions:**   * User logs in with Student role   **Post Conditions:**   * **Success**: The system successfully updates new password to database. * **Fail:** The system shows an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Đổi password” link from Profile screen | Navigate user to Change Password screen and show the following form:   * + Label: “Password hiện tại”, Textbox: free text input, required, length 6-32   + Label: “Password mới”, Textbox: free text input, required, length 6-32   + Label: “Nhập lại password mới”, Textbox: free text input, required, length 6-32   + Update button   + Cancel button | | 2 | User fills in the textboxes |  | | 3 | User clicks update button [Alternative Scenario] [Exception 2, 3] | * System updates new password to database. * Redirect user to Profile screen. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks cancel button | * System keeps current password in database. * Redirect user to Profile screen. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error message: “Cannot connect to server.” | | 2 | If the value in “Password hiện tại” textbox doesn’t match with the current password in the database | System shows message: “Password hiện tại không đúng, xin hãy nhập lại” | | 3 | If the values in “Password mới” textbox and “Nhập lại password mới” textbox doesn’t match with each other | System shows message: “Password mới không trùng khớp, xin nhập lại” |   **Relationships:** N/A  **Business Rules:**   * In successful scenario, new password will be updated to the system * If all the textboxes is blank, the system keeps the current password in the database | | | |

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| **USE CASE – STU004** | | | |
| **Use Case No.** | STU004 | **Use Case Version** | 1.0 |
| **Use Case Name** | View Tuition Payment Status | | |
| **Author** | Vu Nhat Anh Khoa | | |
| **Date** | 25/09/2015 | **Priority** | Normal |
| **Actor:**   * Student   **Summary:**   * This use case allows users to view all their past tuition payments and the tuition payment status for the next semester.   **Goal:**   * A list of semesters with the tuition and payment status will be shown to user.   **Triggers:**   * User clicks “Trạng thái đóng học phí” tab on the navigation menu on the left for the Tuition Payment Status screen * User clicks “ Trạng thái đóng tiền học lại” tab on the navigation menu on the left for the Retake Course Payment Status screen   **Preconditions:**   * User logs in with Student role   **Post Conditions:**   * **Success**: The system successfully shows a list of semesters with the tuition and payment status in tabular form. * **Fail:** The system shows an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Trạng thái đóng học phí” tab [Alternative Scenario] | * Navigate user to Tuition Payment Status screen * System will show a list of semesters with the tuition and payment status in tabular form and order by semester. * The table contain the following columns:   + First column contains order number labeled as “STT”.   + Second column contains the semester labeled as “Học Kỳ”.   + Third column contains the payment status labeled as “Trạng thái”.   + Fourth column contains the date of money transmission labeled as “Ngày Nộp”   + Fifth column contains the transmission deadline labeled as “Hạn chót”   + Sixth column contains the link to the detail transmission labeled as “Chi tiết” | | 2 | User clicks a “Chi tiết” link in the table | * System will show a pop-up page containing following information:   + User’s full name labeled as “Tên”: text.   + User’s code labeled as “MSSV”: text.   + The payment description labeled as “Nội dung đóng tiền”: text.   + User’s tuition status labeled as “Tình trạng”: text   + The original tuition charge labeled as “Mức học phí”: text   + The deduction fees labeled as “Khoản trừ”: text   + The tuition charge after deduction labeled as “Cần Nộp”: text   + The tuition payment status labeled as “Trạng thái”: text   + The transmission date labeled as “Ngày nộp”: text   + The bank in which student transmit the fees from labeled as “Ngân hàng”: text |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Trạng thái đóng học phí” tab | * Navigate user to Tuition Payment Status screen * System will show a list of semesters with the tuition and payment status in tabular form and order by semester. * The table contain the following columns:   + First column contains order number labeled as “STT”.   + Second column contains the subject code labeled as “Mã môn”.   + Third column contains subject name labeled as “Tên Môn”.   + Fourth column contains the payment status labeled as “Trạng thái”.   + Fifth column contains the date of money transmission labeled as “Ngày Nộp   + Sixth column contains the transmission deadline labeled as “Hạn chót”   + The last column contains the link to the detail transmission labeled as “Chi tiết” | | 2 | User clicks a “Chi tiết” link in the table | * System will show a pop-up page containing following information:   + User’s full name labeled as “Tên”: text.   + User’s code labeled as “MSSV”: text.   + The payment description labeled as “Nội dung đóng tiền”: text.   + User’s tuition status labeled as “Tình trạng”: text   + The original tuition charge labeled as “Mức học phí”: text   + The deduction fees labeled as “Khoản trừ”: text   + The tuition charge after deduction labeled as “Cần Nộp”: text   + The tuition payment status labeled as “Trạng thái”: text   + The transmission date labeled as “Ngày nộp”: text   + The bank in which student transmit the fees from labeled as “Ngân hàng”: text |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error message: “Cannot connect to server.” |   **Relationships:** N/A  **Business Rules:**   * All information is loaded from the system’s database * For both of the Tuition Payment Status screen and Retake Course Payment Status Screen:   + The tuition status or “Tình trạng” have three values: “Học bổng”, “Tín dụng 50%”, and “Bình thường”   + The tuition payment status or “Trạng thái” have two values: “Đã nộp” and “Chưa nộp”   + In “Chi tiết” pop-up page, “Ngày nộp” will be blank if the tuition payment status (“Trạng thái”) is “Chưa nộp” | | | |

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| **USE CASE – STU005** | | | |
| **Use Case No.** | STU005 | **Use Case Version** | 1.0 |
| **Use Case Name** | View Studied Subjects | | |
| **Author** | Vu Nhat Anh Khoa | | |
| **Date** | 25/09/2015 | **Priority** | Normal |
| **Actor:**   * Student   **Summary:**   * This use case allows users to view their past semesters and subjects, as well as their incomplete subjects.   **Goal:**   * A list of subjects will be shown to user.   **Triggers:**   * User clicks “Các khóa đã học” tab on the navigation menu on the left for the Finished Semesters screen. * User clicks “Các môn chưa hoàn thành” tab on the navigation menu on the left for the Incomplete Subjects scene.   **Preconditions:**   * User logs in with Student role   **Post Conditions:**   * **Success**: The system successfully shows a list of subjects in tabular form. * **Fail:** The system shows an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Các khóa đã học” tab [Alternative Scenario] | Navigate user to Finished Semesters screen and show information box containing the latest semester user has taken   * System will show a list of subjects in tabular form and order by subject code. * The table contain the following columns:   + First column contains order number labeled as “STT”.   + Second column contains subject code labeled as “Mã Môn”.   + Third column contains subject name labeled as “Tên Môn”.   + Fourth column contains the number of credits labeled as “Số Tín Chỉ”   + Fifth column contains the semester’s half information labeled as “Half”   + Sixth column contains the grade of the subject labeled as “Điểm Trung Bình”   + Seventh column contains the status of the subject labeled as “Trạng Thái”   + The last column contains additional note for specific subjects labeled as “Ghi Chú” | | 2 | User selects a specific semester from a scroll down box | * System will show a list of subjects in tabular form and order by subject code in different semester with the columns as the same as above |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Các môn chưa hoàn thành” tab | Navigate user to Incomplete Subjects screen and show information box containing the subjects that didn’t meet requirements   * System will show a list of subjects in tabular form and order by subject code. * The table contain the following columns:   + First column contains order number labeled as “STT”.   + Second column contains subject code labeled as “Mã Môn”.   + Third column contains subject name labeled as “Tên Môn”.   + Fourth column contains the number of credits labeled as “Số Tín Chỉ”   + Fifth column contains the semester the subjects took place labeled as “Học kỳ”   + Sixth column contains the status of the subject labeled as “Trạng Thái”   + The last column contains additional note for specific subjects labeled as “Ghi Chú” |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error message: “Cannot connect to server.” |   **Relationships:** N/A  **Business Rules:**   * All data is loaded from the system’s database | | | |

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| **USE CASE – STU006** | | | |
| **Use Case No.** | STU006 | **Use Case Version** | 1.0 |
| **Use Case Name** | View Debt | | |
| **Author** | Vu Nhat Anh Khoa | | |
| **Date** | 26/09/2015 | **Priority** | Normal |
| **Actor:**   * CreditStudent   **Summary:**   * This use case allows users to view their own student loans.   **Goal:**   * User’s debt information from database is shown on the screen.   **Triggers:**   * User clicks “Xem lãi vay” tab on the navigation menu on the left   **Preconditions:**   * User logs in with CreditStudent role   **Post Conditions:**   * **Success**: The system successfully shows user’s debt information * **Fail:** The system shows an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Xem lãi vay” tab on the navigation menu on the left | * Navigate user to View Debt screen and show two tabular form and order by date. * The first table contain the following columns:   + First column contains the date of the loan labeled as “Date”.   + Second column contains loan description labeled as “Nội dung”.   + Third column contains the tuition fees labeled as “Học phí”.   + Fourth column contains actual tuition charge labeled as “Thực nộp”   + Fifth column contains the loan labeled as “Vay”   + The last column contains additional note for specific subjects labeled as “Ghi Chú” * The second table contain the following columns:   + First column contains the total sum of the loan at the beginning of repayment periods labeled as “Số dư đầu kỳ”.   + Second column contains the interest labeled as “Lãi phát sinh”.   + Third column contains the amount of money pay by the student labeled as “Số tiền thanh toán”.   + Fourth column contains the total sum at the end of repayment periods labeled as “Số dư cuối kỳ”   + Fifth column contains the end date of repayment period labeled as “Lịch trả nợ”   + The last column contains the interest rate labeled as “Lãi suất” |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error message: “Cannot connect to server.” |   **Relationships:** N/A  **Business Rules:**   * The system fetches user only their own debt information from the database. * The tables will be updated when new information is added to the system’s database. * “Số dư cuối kỳ” is calculated by this formula:   ***“Số dư cuối kỳ” = “Số dư đầu kỳ”+ “Lãi phát sinh” - “Thanh toán”***   * “Số dư đầu kỳ” of the next period is “Số dư cuối kỳ” of the previous one. | | | |

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| **USE CASE – STU007** | | | |
| **Use Case No.** | STU007 | **Use Case Version** | 1.0 |
| **Use Case Name** | View Return Money Status | | |
| **Author** | Vu Nhat Anh Khoa | | |
| **Date** | 26/09/2015 | **Priority** | Normal |
| **Actor:**   * InvestedStudent   **Summary:**   * This use case allows users to view their own student loans.   **Goal:**   * User’s debt information from database is shown on the screen.   **Triggers:**   * User clicks “Xem lãi vay” tab on the navigation menu on the left   **Preconditions:**   * User logs in with InvestedStudent role   **Post Conditions:**   * **Success**: The system successfully shows user’s debt information * **Fail:** The system shows an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Xem nợ tín dụng” tab on the navigation menu on the left | Navigate user to View Debt screen and show information box containing detail information including:   * + User’s full name labeled as “Tên”: text.   + User’s code labeled as “MSSV”: text.   + The original debt labeled as “Số nợ ban đầu”: text   + The current debt labeled as “Số nợ hiện tại”: text   + The money has been payed thus far labeled as “Số tiền đã trả”: text   + The monthly deadline for paying back the loan labeled as “Hạn trả nợ tiếp theo”: text.   + The current interest rate labeled as “Lãi suất hiện tại”: text |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error message: “Cannot connect to server.” |   **Relationships:** N/A  **Business Rules:**   * The system fetches user only their own debt information from the database. * “Số nợ hiện tại”, “Số tiền đã trả”, “Hạn trả nợ tiếp theo”, and “Lãi suất hiện tại” are updated monthly. | | | |