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| **Use Case Specification** | | | |
| **Use Case ID and Name:** | **UC-31 - View Opening Course Information** | | |
| **Created By:** | **Nguyen Trong Nghia** | **Date Created:** | **23/01/2024** |
| **Primary Actor:** | **Parents** | **Secondary Actors:** | **N/A** |
| **Trigger:** | **Parent initiates the request to view available course information.** | | |
| **Description:** | **This use case describes the process by which a parent can view information about the available courses offered by the computing center for their child.** | | |
| **Preconditions:** | * **The parent must be logged into the system.** * **The parent should have a child registered in the center.** | | |
| **Post–conditions:** | **The parent has successfully viewed the opening course information.** | | |
| **Normal Flow:** | 1. **The parent logs into the system.** 2. **The parent navigates to the "Courses" section.** 3. **The system displays a list of available courses.** 4. **The parent selects a course of interest.** 5. **The system provides detailed information about the selected course, including the schedule, curriculum, and any other relevant details.** 6. **The parent reviews the information.** | | |
| **Alternative Flows:** | **If the parent has not registered a child, the system prompts the parent to register a child before accessing course information.** | | |
| **Exceptions:** | **If there is a system error or the course information cannot be retrieved, an error message is displayed, and the parent is prompted to try again.** | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | **Frequent** | | |
| **Business Rules:** | **Parents can only view course information for their registered child.** | | |
| **Other Information:** | **The course information should include details such as the course name, instructor, schedule, and any prerequisites.** | | |
| **Assumptions:** | * **Parents have a valid and active account in the system.** * **The system is properly configured with up-to-date course information.** | | |

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| **Use Case Specification** | | | |
| **Use Case ID and Name:** | **UC-32 - Join A Course** | | |
| **Created By:** | **Nguyen Trong Nghia** | **Date Created:** | **23/01/2024** |
| **Primary Actor:** | **Parents** | **Secondary Actors:** | **N/A** |
| **Trigger:** | **Parent initiates the request to register their child for a course and make a payment.** | | |
| **Description:** | **This use case outlines the process by which a parent can seamlessly register their child for a specific course offered by the computing center, integrating the course registration and payment process.** | | |
| **Preconditions:** | * **The parent must be logged into the system.** * **The parent has viewed the course information for the desired course (Refer to UC-31).** * **The payment method of the parent must be set up or selected.** | | |
| **Post–conditions:** | **The parent has successfully registered their child for the selected course, made the payment, and the child is enrolled in the course.** | | |
| **Normal Flow:** | 1. **The parent logs into the system.** 2. **The parent navigates to the "Courses" section.** 3. **The parent selects a course they want to register their child for.** 4. **The system displays available slots for the selected course.** 5. **The system prompts the parent to confirm the course registration.** 6. **The system refers to UC-34 (Process Payment) to handle the payment aspect, calculating the total amount to be paid and providing the necessary details.** 7. **UC-34 completes the payment transaction.** 8. **The system updates the database, registering the child for the selected course and recording the payment.** 9. **The system generates a confirmation message and provides a payment receipt to the parent.** | | |
| **Alternative Flows:** | **If the parent's account balance is insufficient or the payment method fails, the system prompts the parent to choose an alternative method or update their payment information.** | | |
| **Exceptions:** | **If there is an error during the registration or payment processing (e.g., connectivity issues, payment gateway failure), the system displays an error message and guides the parent to try again.** | | |
| **Priority:** | **High** | | |
| **Frequency of Use:** | **Moderate to High** | | |
| **Business Rules:** | * **The system should adhere to security standards for handling payment information.** * **Different payment methods may have associated fees or processing times.** | | |
| **Other Information:** | * **Consider implementing email notifications for successful transactions.** * **Ensure compliance with any relevant financial regulations or standards.** | | |
| **Assumptions:** | * **The parent has successfully viewed the course information (UC-31) before attempting to join a course.** * **The system is configured to handle concurrent registration and payment requests without conflicts.** | | |

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| **Use Case Specification** | | | |
| **Use Case ID and Name:** | **UC-33 - Cancel A Course** | | |
| **Created By:** | **Nguyen Trong Nghia** | **Date Created:** | **23/01/2024** |
| **Primary Actor:** | **Parents** | **Secondary Actors:** | **N/A** |
| **Trigger:** | **Parent initiates the request to cancel their child's enrollment in a course.** | | |
| **Description:** | **This use case outlines the process by which a parent can cancel their child's enrollment in a course offered by the computing center.** | | |
| **Preconditions:** | * **The parent must be logged into the system.** * **The parent's child must be currently enrolled in the course.** | | |
| **Post–conditions:** | **The parent's child is successfully unenrolled from the canceled course.** | | |
| **Normal Flow:** | 1. **The parent logs into the system.** 2. **The parent navigates to the "My Courses" section, displaying the list of enrolled courses for their child.** 3. **The parent selects the course they want to cancel.** 4. **The system prompts the parent to confirm the cancellation.** 5. **The parent confirms the cancellation.** 6. **The system updates the database, removing the child's enrollment from the canceled course.** | | |
| **Alternative Flows:** | **If the parent attempts to cancel a course that their child is not currently enrolled in, the system displays an error message and guides the parent to review the list of enrolled courses.** | | |
| **Exceptions:** | **If there is an error during the cancellation process (e.g., technical issue, database error), the system displays an error message and prompts the parent to try again.** | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | **Moderate** | | |
| **Business Rules:** | * **Parents can only cancel courses in which their child is currently enrolled.** * **There might be a deadline or specific conditions for canceling a course.** | | |
| **Other Information:** | * **The system should provide confirmation messages upon successful cancellation.** * **Consider implementing notifications to inform the child and parent about the course cancellation.** | | |
| **Assumptions:** | * **The parent has successfully logged into the system.** * **The system is configured to handle concurrent cancellation requests without conflicts.** | | |

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| **Use Case Specification** | | | |
| **Use Case ID and Name:** | **UC-34 - Process Payment** | | |
| **Created By:** | **Nguyen Trong Nghia** | **Date Created:** | **23/01/2024** |
| **Primary Actor:** | **Parents** | **Secondary Actors:** | **N/A** |
| **Trigger:** | **Parent initiates the request to make a payment after confirming the course registration.** | | |
| **Description:** | **This use case outlines the process by which a parent can seamlessly make a payment after confirming the registration for a specific course offered by the computing center.** | | |
| **Preconditions:** | * **The parent must be logged into the system.** * **The parent has confirmed the course registration for their child (Refer to UC-32).** * **The payment method of the parent must be set up or selected.** | | |
| **Post–conditions:** | **The parent has successfully made the payment, and the child is officially enrolled in the course.** | | |
| **Normal Flow:** | 1. **Following the completion of UC-32 (Join A Course) where the parent confirms the course registration, the system prompts the parent to proceed to the payment step.** 2. **The parent chooses a payment method and provides the necessary details.** 3. **The system calculates the total amount to be paid and displays it for confirmation.** 4. **The parent confirms the payment.** 5. **The system processes the payment transaction.** 6. **If the payment is successful:**    * **The system updates the database, confirming the child's enrollment in the selected course and recording the payment.**    * **The system generates a confirmation message and provides a payment receipt to the parent.** 7. **If the payment fails:**    * **The system displays an error message and guides the parent to try again or choose an alternative payment method.** | | |
| **Alternative Flows:** | **If the parent's account balance is insufficient or the payment method fails, the system prompts the parent to choose an alternative method or update their payment information.** | | |
| **Exceptions:** | **If there is an error during the payment processing (e.g., connectivity issues, payment gateway failure), the system displays an error message and guides the parent to try again.** | | |
| **Priority:** | **High** | | |
| **Frequency of Use:** | **Moderate to High** | | |
| **Business Rules:** | * **The system should adhere to security standards for handling payment information.** * **Different payment methods may have associated fees or processing times.** | | |
| **Other Information:** | * **Consider implementing email notifications for successful transactions.** * **Ensure compliance with any relevant financial regulations or standards.** | | |
| **Assumptions:** | * **The parent has successfully viewed the course information (UC-31) before attempting to join a course.** * **The system is configured to handle concurrent registration and payment requests without conflicts.** | | |

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| **Use Case Specification** | | | |
| **Use Case ID and Name:** | **UC-35 - View Parent’s Children Information** | | |
| **Created By:** | **Nguyen Trong Nghia** | **Date Created:** | **23/01/2024** |
| **Primary Actor:** | **Parents** | **Secondary Actors:** | **N/A** |
| **Trigger:** | **Parent initiates the request to view information about their children in the system.** | | |
| **Description:** | **This use case outlines the process by which a parent can access and view information related to their children within the computing center's system.** | | |
| **Preconditions:** | **The parent must be logged into the system.** | | |
| **Post–conditions:** | **The parent has successfully viewed information about their children, including relevant details such as enrolled courses, grades, and other related data.** | | |
| **Normal Flow:** | 1. **The parent logs into the system.** 2. **The parent navigates to the "Profile" section.** 3. **The system displays a list of the parent's registered children.** 4. **The parent selects a specific child for whom they want to view information.** 5. **The system presents detailed information about the selected child, including enrolled courses, grades, and any other relevant details.** 6. **The parent reviews the information.** | | |
| **Alternative Flows:** | **If the parent has not registered any children or the system does not have information about their children, a message is displayed, guiding the parent to add or register a child.** | | |
| **Exceptions:** | **If there is an error retrieving information about the children (e.g., database error, connectivity issues), the system displays an error message and prompts the parent to try again.** | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | **Frequent** | | |
| **Business Rules:** | * **Parents can only view information about their own registered children.** * **The displayed information should be accurate and up-to-date.** | | |
| **Other Information:** | * **Consider implementing features like attendance records, grades, and other relevant educational information.** * **Ensure that sensitive information about children is securely handled and adheres to privacy standards.** | | |
| **Assumptions:** | * **The parent has successfully logged into the system.** * **The system is properly configured to link parents with their registered children's information.** | | |

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| **Use Case Specification** | | | |
| **Use Case ID and Name:** | **UC-36 - Update Parent’s Children** | | |
| **Created By:** | **Nguyen Trong Nghia** | **Date Created:** | **23/01/2024** |
| **Primary Actor:** | **Parents** | **Secondary Actors:** | **N/A** |
| **Trigger:** | **Parent initiates the request to update information about their children in the system.** | | |
| **Description:** | **This use case outlines the process by which a parent can modify or update information related to their children within the computing center's system.** | | |
| **Preconditions:** | * **The parent must be logged into the system.** * **The parent's children must already be registered in the system.** | | |
| **Post–conditions:** | **The parent has successfully updated information about their children, and the system reflects the changes.** | | |
| **Normal Flow:** | 1. **The parent logs into the system.** 2. **The parent navigates to the "Profile" section.** 3. **The system displays a list of the parent's registered children.** 4. **The parent selects a specific child for whom they want to update information.** 5. **The system presents a form or interface allowing the parent to make changes to the selected child's information (e.g., contact details, emergency contacts, medical information).** 6. **The parent submits the updated information.** 7. **The system validates and processes the changes, updating the database accordingly.** 8. **The system provides a confirmation message to the parent.** | | |
| **Alternative Flows:** | **If the parent encounters errors while submitting the updated information (e.g., invalid data, database issues), the system displays an error message and prompts the parent to correct the information.** | | |
| **Exceptions:** | **If the parent attempts to update information for a child that is not registered in the system, the system displays an error message and guides the parent to review their registered children.** | | |
| **Priority:** | **Medium** | | |
| **Frequency of Use:** | **Occasional** | | |
| **Business Rules:** | * **Parents can only update information for their own registered children.** * **The system should enforce data validation rules to ensure the accuracy of the updated information.** | | |
| **Other Information:** | * **Ensure that sensitive information about children is securely handled and adheres to privacy standards.** * **Implement proper auditing mechanisms to track changes made to children's information.** | | |
| **Assumptions:** | * **The parent has successfully logged into the system.** * **The system is properly configured to link parents with their registered children's information, and the interface for updating information is user-friendly.** | | |

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| **Use Case Specification** | | | |
| **Use Case ID and Name:** | **UC-37 - Delete Parent’s Children** | | |
| **Created By:** | **Nguyen Trong Nghia** | **Date Created:** | **23/01/2024** |
| **Primary Actor:** | **Parents** | **Secondary Actors:** | **N/A** |
| **Trigger:** | **Parent initiates the request to remove their children from the system.** | | |
| **Description:** | **This use case outlines the process by which a parent can delete or remove information about their children from the computing center's system.** | | |
| **Preconditions:** | ** The parent must be logged into the system.**  ** The parent's children must already be registered in the system.** | | |
| **Post–conditions:** | **The parent has successfully removed information about their children, and the system reflects the deletion.** | | |
| **Normal Flow:** | 1. **The parent logs into the system.** 2. **The parent navigates to the "My Children" or "Profile" section.** 3. **The system displays a list of the parent's registered children.** 4. **The parent selects a specific child they want to remove.** 5. **The system presents a confirmation prompt or form, asking the parent to confirm the deletion.** 6. **The parent confirms the deletion.** 7. **The system processes the deletion, removing the child's information from the database.** 8. **The system provides a confirmation message to the parent.** | | |
| **Alternative Flows:** | **If the parent cancels the deletion during the confirmation step, the system returns to the normal flow without deleting the child's information.** | | |
| **Exceptions:** | **If the parent attempts to delete information for a child that is not registered in the system, the system displays an error message and guides the parent to review their registered children.** | | |
| **Priority:** | **High** | | |
| **Frequency of Use:** | **Infrequent** | | |
| **Business Rules:** | * **Parents can only delete information for their own registered children.** * **Implement proper data deletion protocols to ensure compliance with privacy standards and regulations.** | | |
| **Other Information:** | * **Consider implementing a cooling-off period or additional verification steps to prevent accidental or unauthorized deletions.** * **Ensure that the system provides clear information about the consequences of deleting a child's information.** | | |
| **Assumptions:** | * **The parent has successfully logged into the system.** * **The system is properly configured to link parents with their registered children's information, and the interface for deleting information is user-friendly.** | | |