

VIETNAM NATIONAL UNIVERSITY - HO CHI MINH CITY
HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY
FACULTY OF COMPUTER SCIENCE AND ENGINEERING



SOFTWARE ENGINEERING - CO3001

ASSIGNMENT REPORT

TASK 1.3

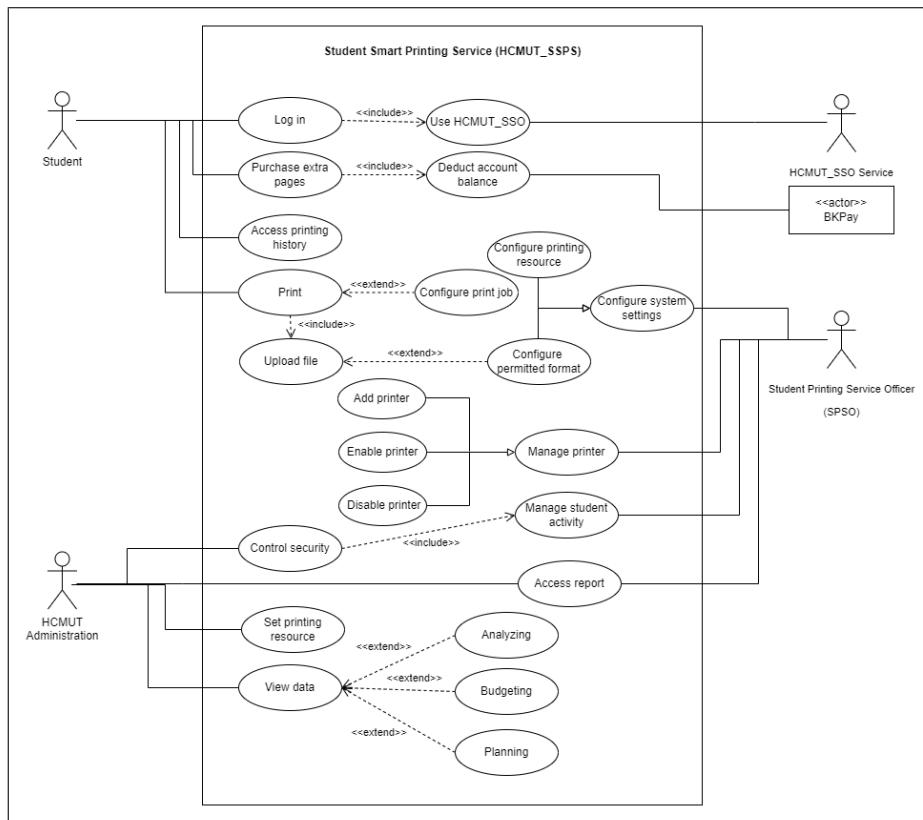
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Mục lục

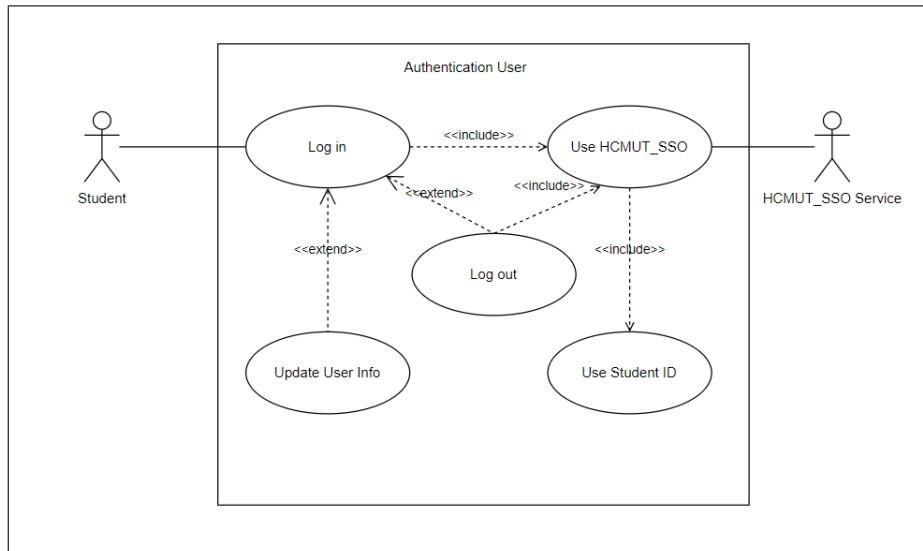
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1 Use-case diagram for the whole system



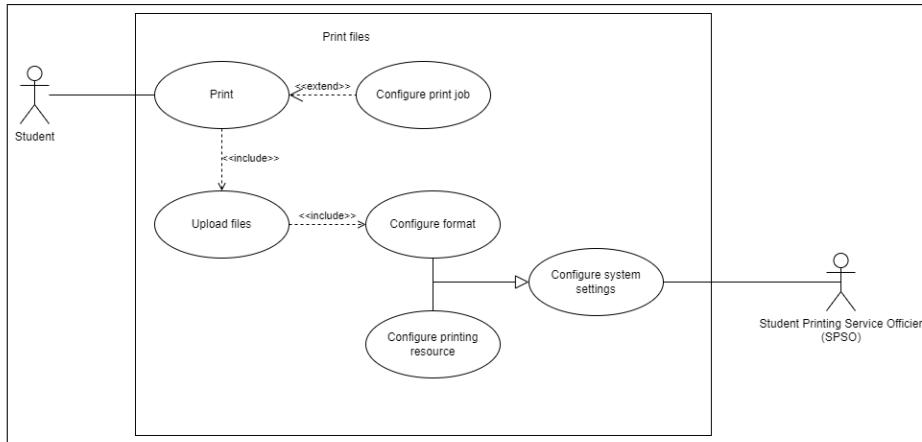
2 Use-case diagram & table for important modules

2.1 Authentication User



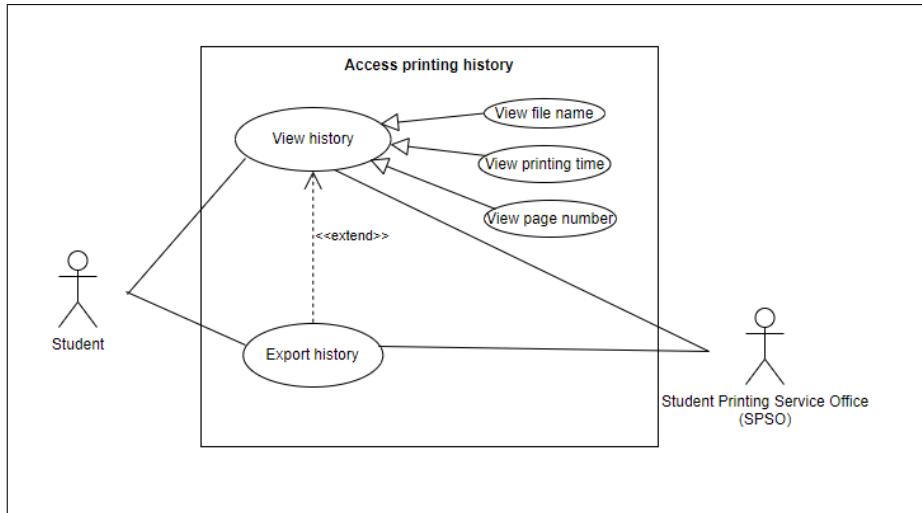
Use-case name	Login
Actor	Student, HCMUT_SSO
Description	Students log in to the Student Smart Printing Service (SSPS)
Preconditions	Students are at the SSPS homepage.
Normal Flow	1. Students select the login button. 2. System present login interface. 3. Students enter student ID and password. 4. Students use SSPS system. 5. Students log out.
Exception Flow	Exception: at the step 3 3a. Wrong student ID or password. System presents notification saying that wrong student ID or password.
Alternative Flow	Alternative 1: at the step 1 1. Students select create account button. 2. System present create account interface. 3. Student enter information. 4. Student login (continue step in the normal flow).

2.2 Print Files



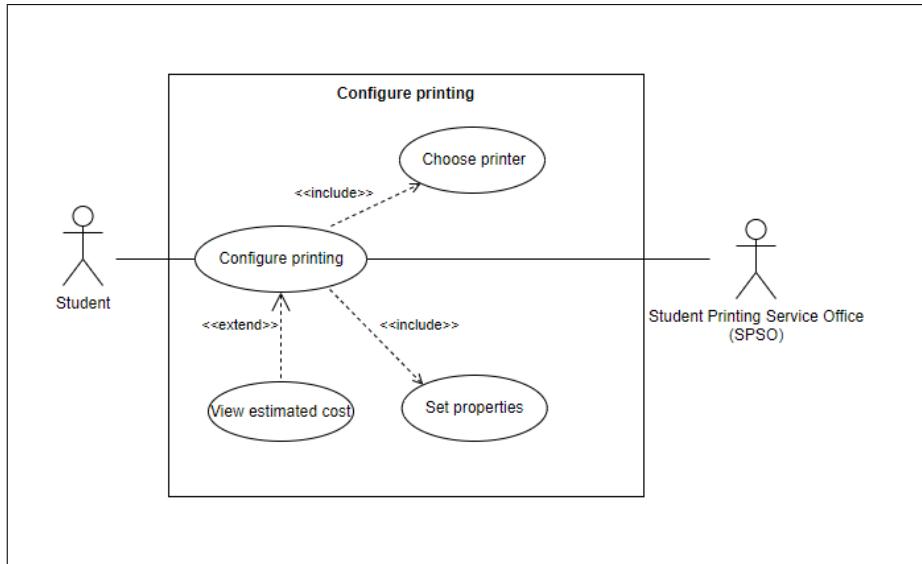
Use-case name	Print Files
Actor	Student, Student Printing Service Officer (SPSO)
Description	Students print files on the Student Smart Printing Service (SSPS)
Preconditions	Students already login to their accounts.
Normal Flow	<ol style="list-style-type: none"> 1. Students click print button. 2. System present printing files interface. 3. Students select upload files button. 4. Students choose the files from their device. 5. Students configure the printing format. 6. Students click print files button. 7. SSPS prints files.
Exception Flow	Exception 1: at the step 4 4a. Error in uploading files, the SSPS show the error box saying that cannot upload the files Exception 2: at the step 7 7a. Error in printing files, the SSPS show the error box saying that cannot print the files.
Alternative Flow	None.

2.3 Access printing history



Use-case name	Access Printing History
Actor	Student, Student Printing Service Officer (SPSO)
Description	Students access and view their own printing history.
Preconditions	Students already login to their accounts.
Normal Flow	1. The student selects the "Access Printing History" option from the menu. 2. The system retrieves and displays the student's printing history (print job dates, printer names, file names, printing times, and page numbers). 3. The student can navigate and interact with their printing history (view specific print job details, filter the history by date, printer, or document type, and exporting the history if desired).
Exception Flow	Exception 1: at step 1 1a. If the student's account does not have any printing history records, student that there is no printing history to display.
Alternative Flow	None

2.4 Configure printing



Use-case name	Buy extra paper
Actor	Student, Student Printing Service Officer (SPSO), BKPay
Description	Students select paper type, specify quantity, make secure payments, and confirm transactions for purchasing paper.
Preconditions	User authentication and account validation. Users must have valid payment methods (BKPay).
Normal Flow	<ol style="list-style-type: none"> 1. The student navigates to the "Buy Paper" button, typically found in the system's menu. 2. The student selects the type of paper they want to purchase, such as A4, A3, or specialty paper. 3. The student specifies the quantity of paper they wish to buy, indicating the number of reams or sheets. 4. The system processes the payment through (BKPay). 5. The system generates a transaction confirmation, which is displayed to the user and sent as a receipt.
Exception Flow	<p>Exception 1: Payment Failure: at step 4 4a. If the payment processing fails due to issues with the user's payment, the system should provide an error message.</p> <p>Exception 2: Insufficient Inventory: at step 2 2a. When the paper type or quantity requested is not available in the system's inventory, the module should handle this exception by informing the user of the unavailability and suggesting alternative options or notifying them when the item is back in stock.</p>
Alternative Flow	None