

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



SOFTWARE ENGINEER (CO3001)

Assignment

Student Smart Printing Service

Advisor:
Students:

HO CHI MINH CITY, OCTOBER 2024



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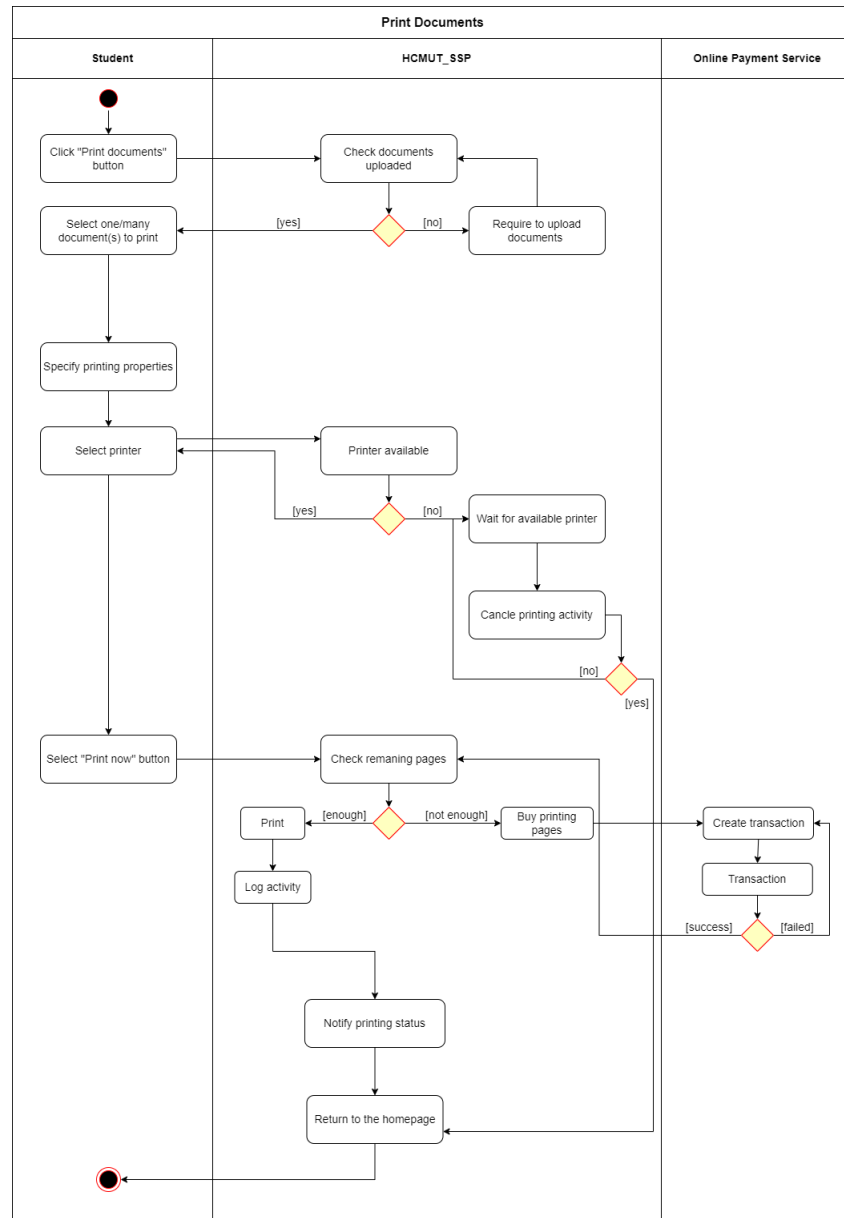
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1 Member list & Workload

2 Activity diagram

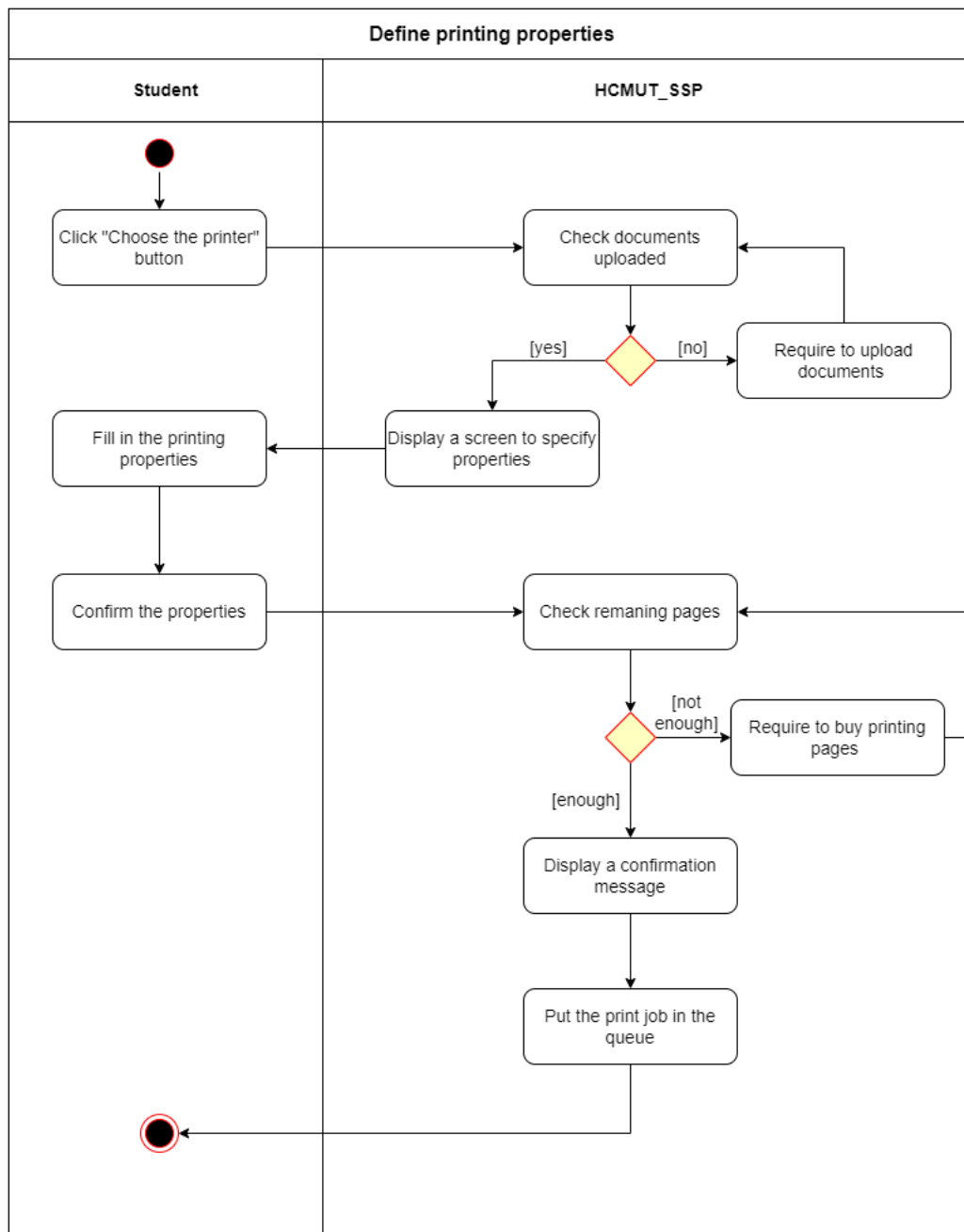
2.1 Printing documents



This diagram outlines the process where a student purchases additional printing pages through an online system (HCMUT_SSP) and an online payment service. The process starts when the student clicks either the "Print Immediately" or "Buy more papers" button. If the student chooses to cancel, the process ends; otherwise, the system checks whether the student has sufficient remaining pages. If pages are insufficient, the student is prompted to enter the required

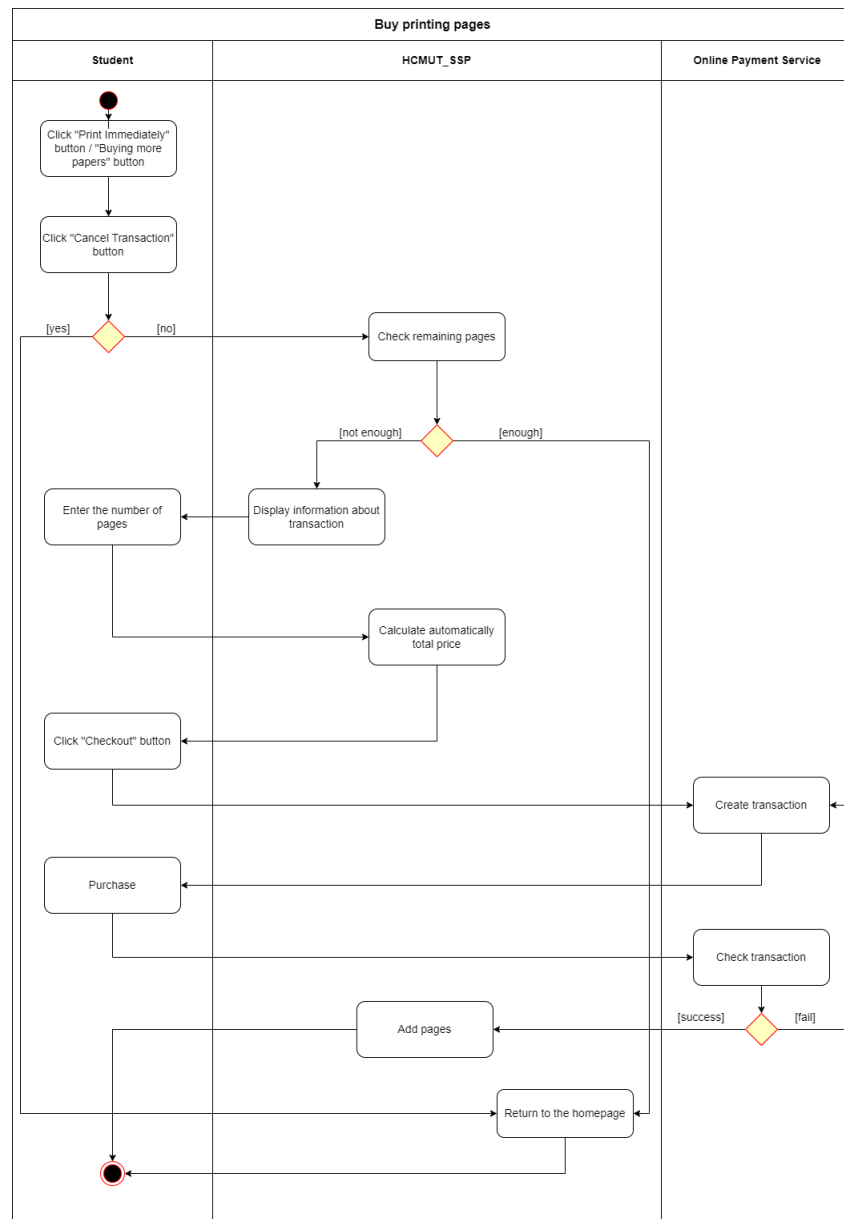
number, and the system calculates the total price. Upon proceeding, a transaction is created with the payment service, and if successful, the pages are added to the student's account, concluding the transaction.

2.2 Define the printing properties



This diagram describes the sequence a student follows to define printing properties for a document. After selecting a printer, the system checks if the required documents have been uploaded. If not, the user is prompted to upload them. If documents are available, the student specifies the printing properties and confirms them. The system checks if the student has sufficient printing pages, and if so, it places the print job in a queue. If not enough pages are available, the system prompts the student to purchase more pages before continuing.

2.3 Buying printing pages





This diagram outlines the process where a student purchases additional printing pages through an online system (HCMUT_SSP) and an online payment service. The process starts when the student clicks either the "Print Immediately" or "Buy more papers" button. If the student chooses to cancel, the process ends; otherwise, the system checks whether the student has sufficient remaining pages. If pages are insufficient, the student is prompted to enter the required number, and the system calculates the total price. Upon proceeding, a transaction is created with the payment service, and if successful, the pages are added to the student's account, concluding the transaction.