Functional Requirements (FRs)

* Students
* Students can upload document files to the system for printing.
* Students can select a printer from the list of available printers in the system.
* Students can configure printing attributes such as paper size, number of pages, single-sided or double-sided printing, and the number of copies.
* Students can view their print history, including the number of pages printed for each paper size within a specific period.
* Students can purchase additional print pages through the BKPay payment system.
* Students can report issues to the system.
* Student Printing Service Officer (SPSO)
* SPSO can view the print history of all students or a specific student within a specific period and for all or selected printers.
* SPSO can add, enable/disable printers in the system.
* SPSO can modify the default number of pages allocated to students each semester.
* SPSO can change the date the default page allocation is issued to students each semester.
* SPSO can configure the types of files allowed to be uploaded to the system.
* SPSO can view system usage reports that are automatically generated at the end of each month and each year.
* SPSO can report issues to the system.
* IT Department
* The IT Dept can receive system error notifications.
* The IT Dept can manage system users.
* The IT Dept can shut down the system for maintenance.
* The IT Dept can manage printers within the system.
* The IT Dept can upgrade or modify system functions if necessary.
* The IT Dept can block users if needed.

Non-Functional Requirements (NFRs)

* Security (HCMUT-SSO integration).
* User-friendly interface.
* System scalability for future expansion.
* Fast response time.
* No conflicts or synchronization issues with other systems (BKPay, HCMUT-SSO).
* Compatibility with the school's infrastructure.
* Within the school's budget constraints.