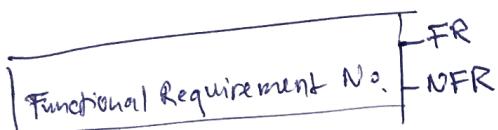
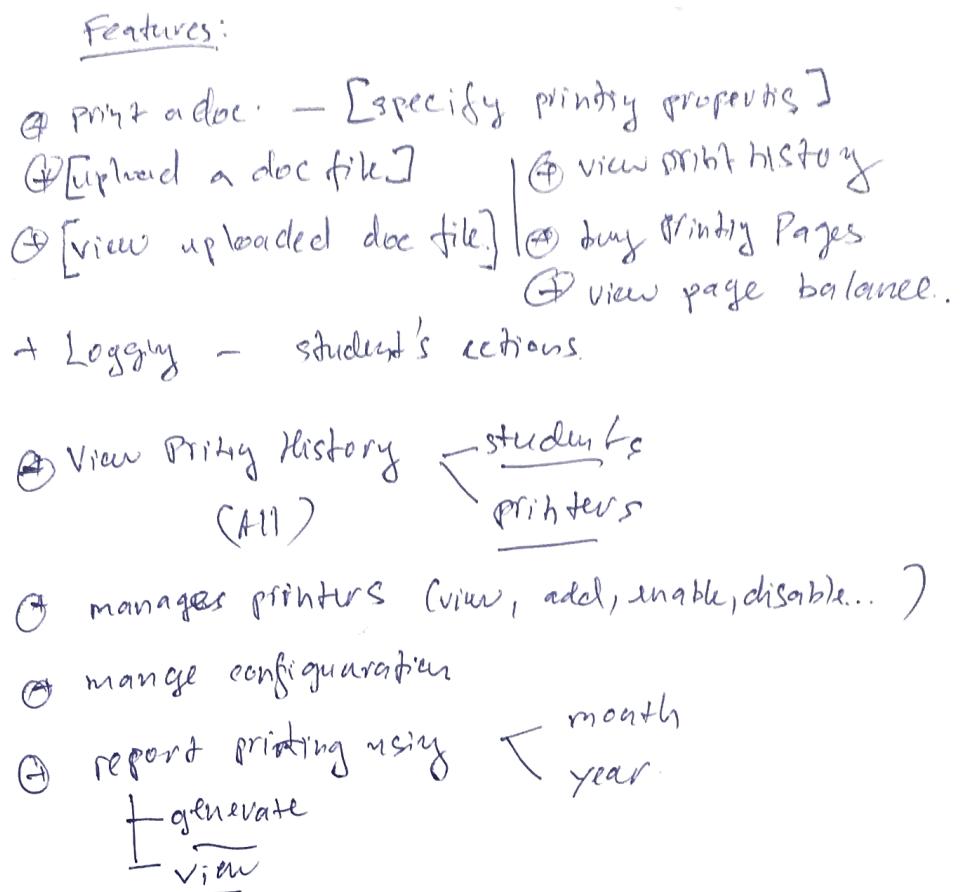
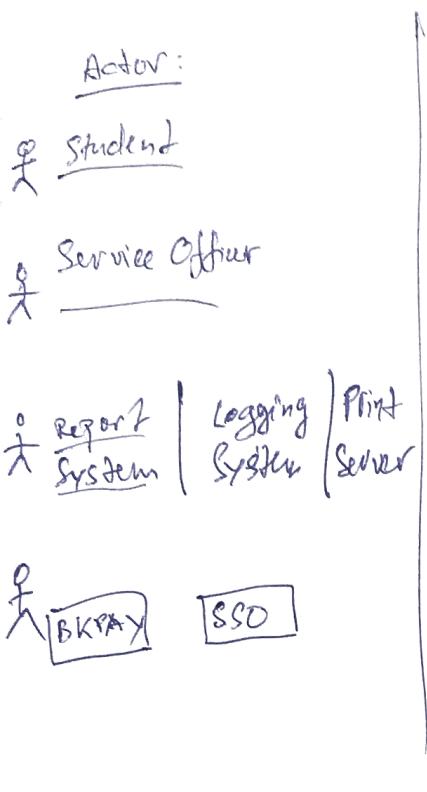


Student Smart Printing Service (SSPS)

- printer: ID, brand, model, fees, location
- location: campus, building, room



• FR.1: A student shall be able to print a document.

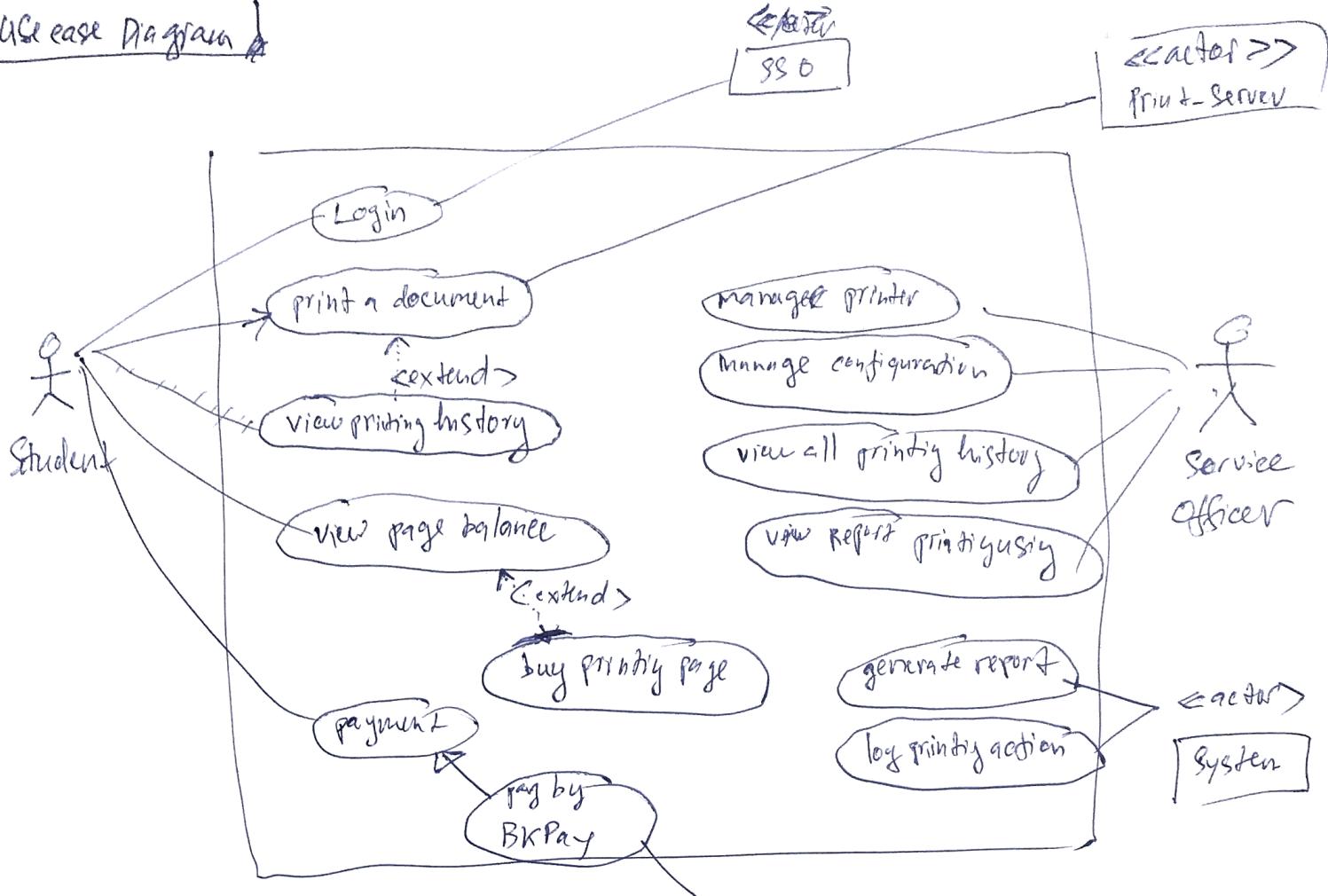
Dess: To be able to print a document, students first need to upload the document to HEUUT-SSPS system. After the document is successfully uploaded, student can select the printer & setup the print configuration (if need). The system displays a successful print msg after printing is complete.

- 1.1. upload doc file .
- 1.2. view doc file (uploaded)
- 1.3. select printer .
- 1.4. Setup print configuration .

Non-Func Reqs:

- ④ The permitted file type are limited by SPSO. Ex: docx, pdf, ...
- ④ the upload file size should be ≤ 3mb. ?
- ④ speed within 3..5 seconds.

Use Case Diagram



~~Actor & Subcases~~

Actor	Name	Precs
01	Student :	...
02	ServiceOfficer :	...
03	SSO :	...
04	BKPAY :	...
05	System : Report System & Logging System.	
06	Print Server	

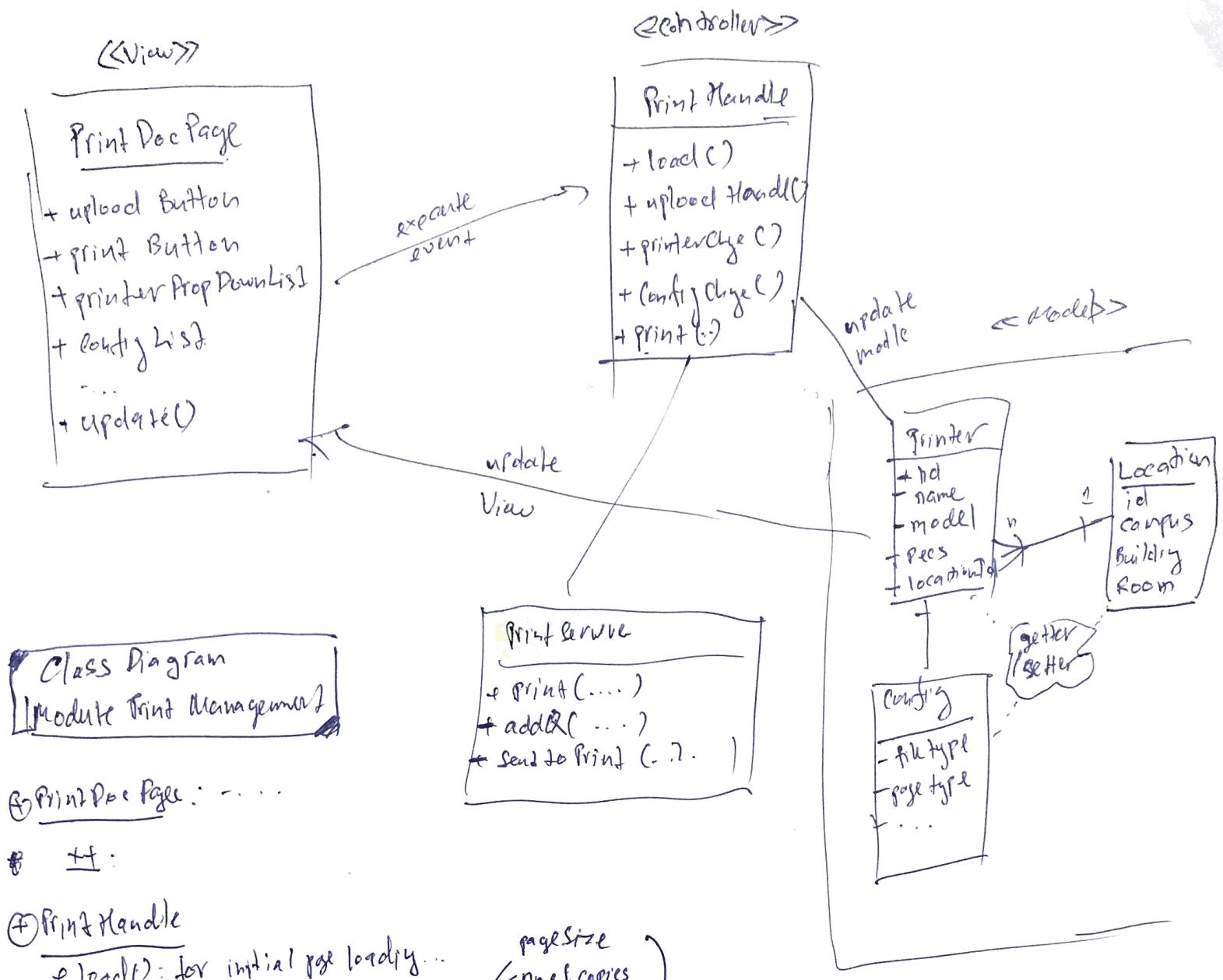
usecase	Precs
Login	- - - - -
print a document	- - - - -
view printing history	- - - - -
	- - - - -

The Layered Architecture of SSPS



Four Layers

- + Top layer: are web-based user interface and mobile-based user interface
- + Second layer: provides the UI functionality that is delivered through the web-browser or mobile - Allow user: login & rolechecking, . . .
- + Third layer: implement the functionality of the system and provides components that implement
 - system security
 - printing - upload, print docs
 - report generator - create management reports
 - printer - create, enable/disable printers . . .
 - payment - control configuration
 - logging - log actions
- + Lowest layer: provides trans management & persistent data storage



④ Print Doc Page:

• if:

⑤ Print Handle

+ load(): for initial page loading...
+ print(doc, client, print-setting) (page size, no of copies, printer-id)

Test Case: For Print a Document.

Test Case 01: Play Print Doc Page - Successfully

+ Test Desc:

+ Pre conditions: logged, have role: student

+ Actions:

1. student click on "Print Package" on main menu

2. system display page includes: get data:

- printer-list

- config-list

= ...

3. system display Print Doc Page

+ Input: ...

- action: ...

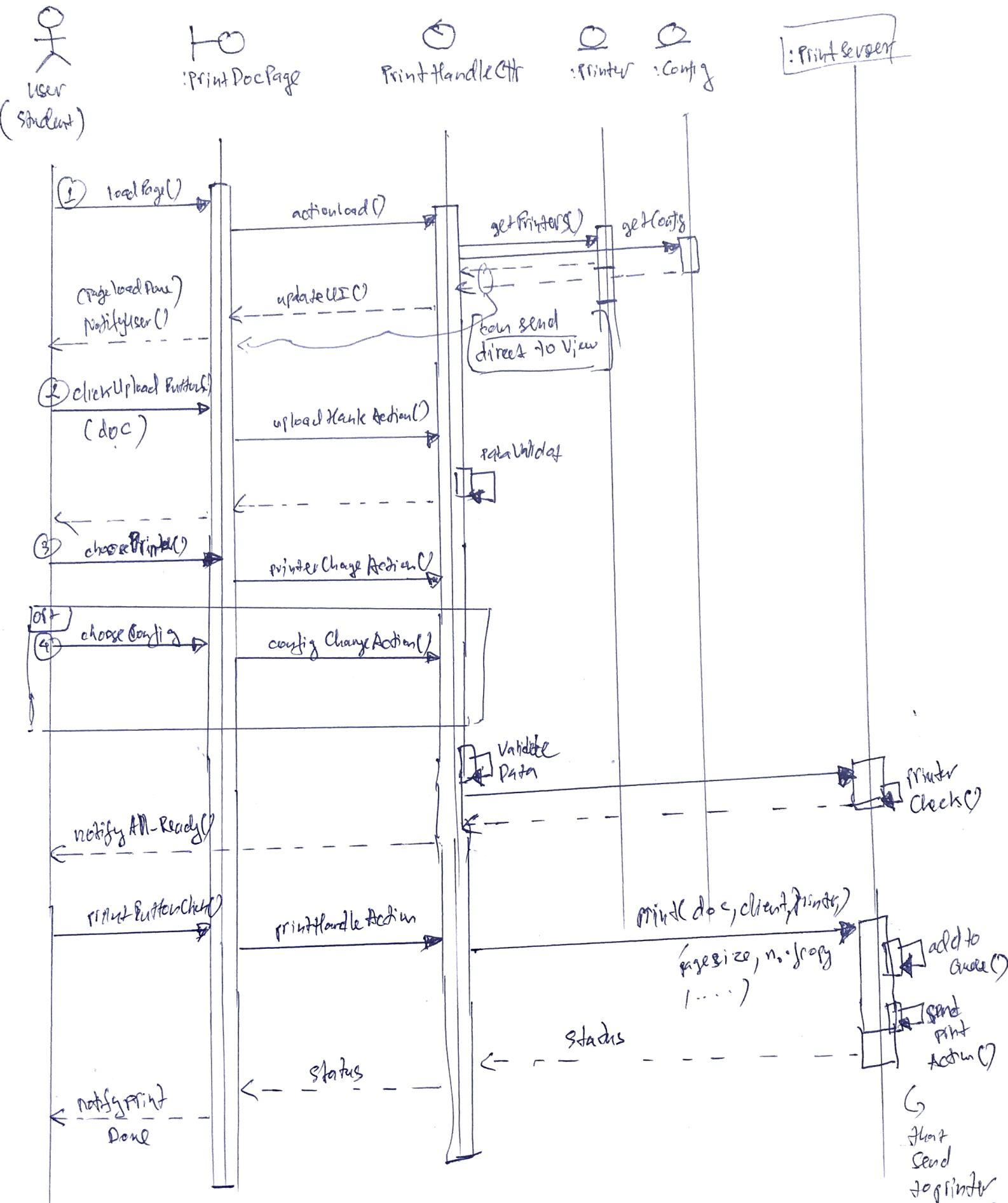
No printer founded

#02 upload Doc file successfully

#03

Expected Output: system display Print Doc Page contains uploaded file & list of Print

Sequence Diagram



1. load Page
2. Upload document
3. Choose Printers
4. Choose Config (Optional)

(5) Print:

Start
Send
to printer
(physical)