

PRINTING PROCESS

AT SWINBURNE'S LIBRARY

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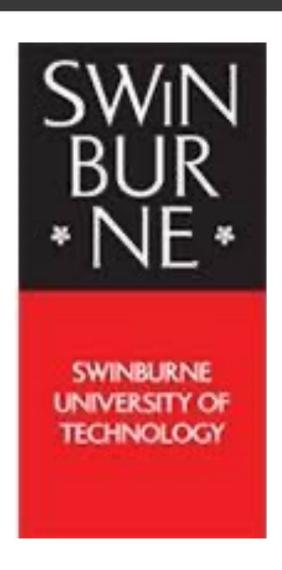
- a leading university, founded in 1908
- known for high-quality research with particular strengths in materials science, computer scienc e and information technology, design and innovation
- 3 campuses located in Melbourne



Swinburne University of Technology

Insert the title of your subtitle Here







PURPOSE

 Provide needs for students



FOCUSED PROCESS

 Printing process at Swinburne libraries



BUSINESS AREA

- A higher education industry
- Provide data operation and education services



Process Model

PROCESS: PRINTING PROCESS AT SWINBURNE'S LIBRARY



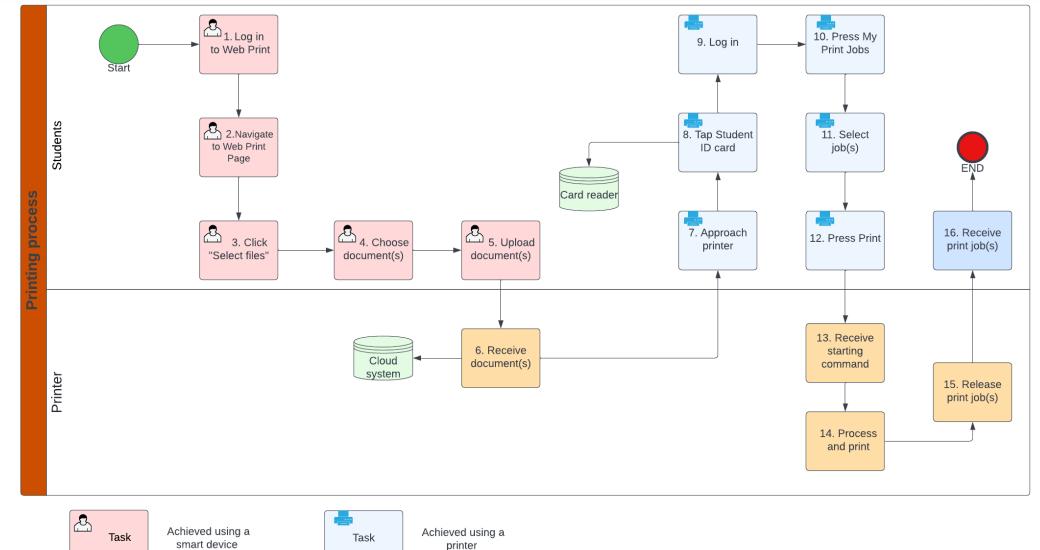


Table showing

Data that the process reliant on

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TASK	Task Description
3. Upload the document(s)	Students click on select files, choose the document(s) they want to print, and upload them. The printer receives the documents and store them in the cloud system. I/P: documents O/P: none Tech: internet, internet browser, monitor, smart devices, cloud system S.P: Internet System provider, Monitor BM, cloud provider
4. Start the printer	Students approach the printer and start it by tapping the Student ID card at the printer I/P: student ID card O/P: none Tech: card reader machine, printer S.P: tech suppliers

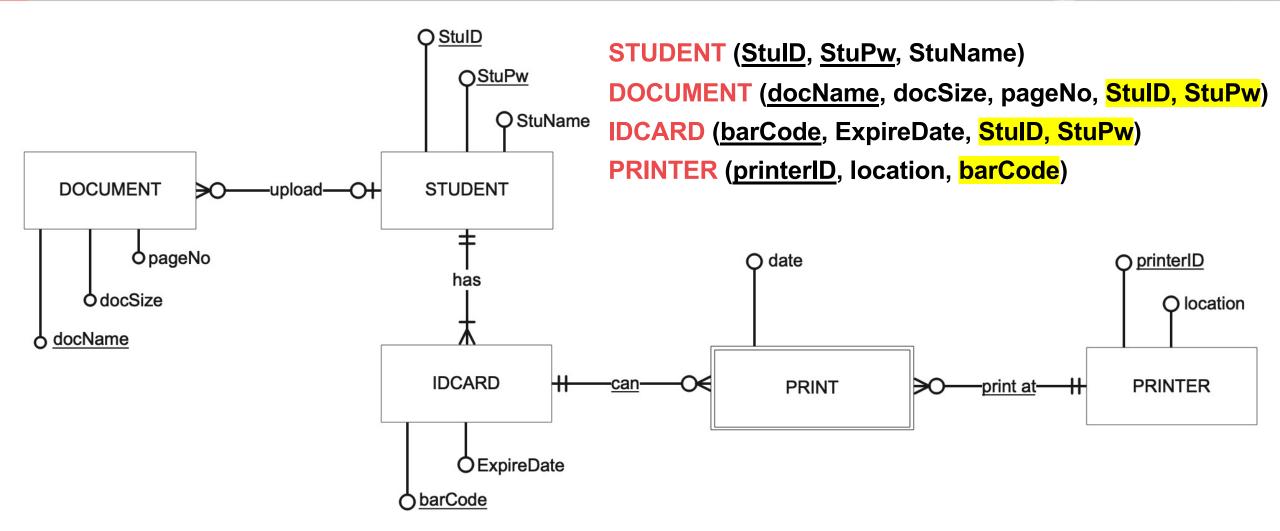
TASK	Task Description
5. Log in at the printer	Students enter the student ID, password at the printer using the printer screen I/P: student ID and password O/P: none Tech: printer S.P: tech suppliers
6. Printing setting	Students press "My print jobs", and select the job(s) they want to print. Then, press "Print" to start printing (as long as they have enough credit in their balance). I/P: none O/P: none Tech: printer S.P: tech suppliers

*See appendix A for the entire table

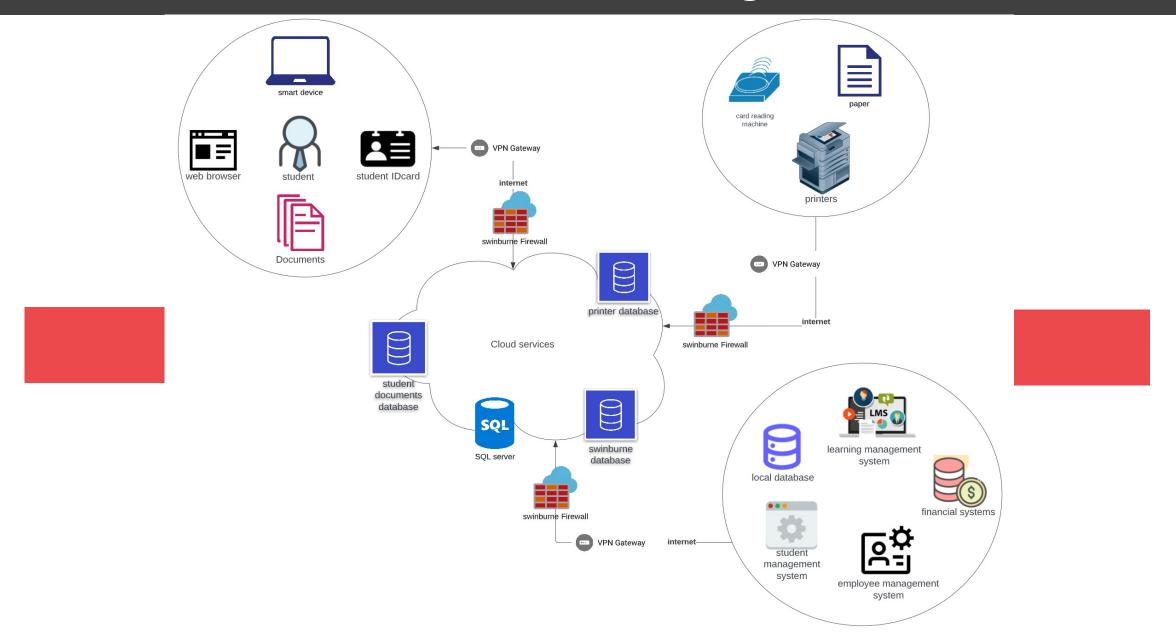
Entity Relationship Diagram

Core entities, attributes





Architecture Diagram



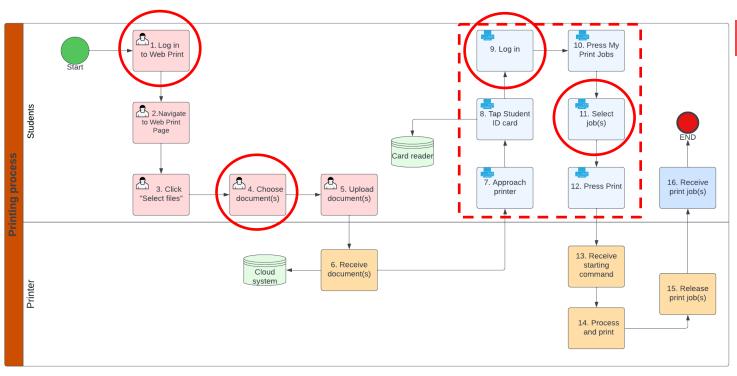
PROBLEMS

Original Printing Process

Achieved using a

smart device





Achieved using a

printer

Task

PROBLEMS

Have to change between different devices, work directly at the printer could cause:



Bottleneck

- Delay in the process
- Annoyance, fatigue

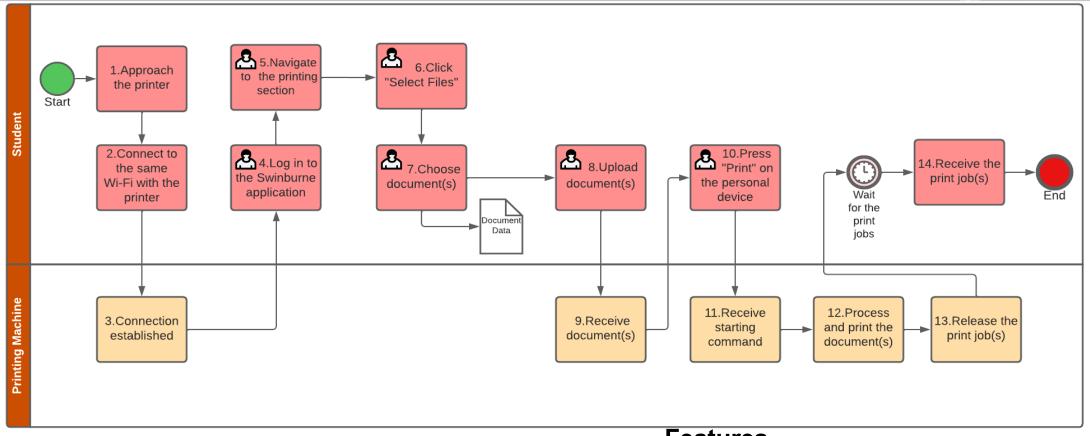


Duplication

- Time-consuming
- Complicated

New Printing Process

Using Wi-Fi Printer with the printing menu in the Swinburne application



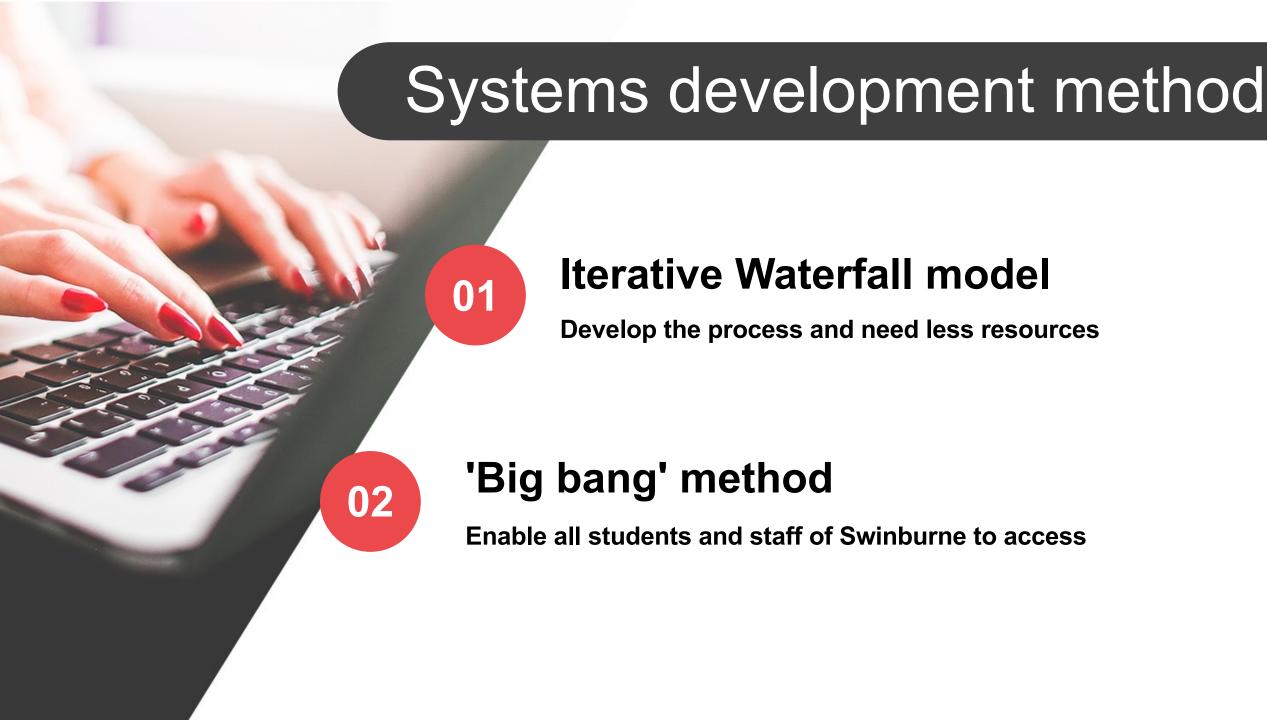


Features

- One online platform (Swinburne application)
- Manual tasks: From 12 to 9
- Time: Take less than 5 to 7 minutes 🔀







Value, Benefits and Concerns



Print slowly or have print problems when the network is busy

The range of a wireless network can be a significant constraint

A wireless router or access point is required

Complicated initial step to install and connect printers.

Open up potential cybercrime and privacy



More convenient

Saving time

Increase safety during a pandemic

Reduce confusion to new students

Easier to control the printing credit

Connected with many devices

Reduce the number of wires needed

Ability to place the printer anywhere

References:



- ALL PPT n.d., Computer Business Using Laptop PowerPoint Template, viewed
 12 May, 2022, https://www.free-powerpoint-templates-design.com/computer-business-using-laptop-powerpoint-template/.
- Services, L., Help with Wi-Fi, I. and Printing, C., 2022. *Printing, copying and scanning*. [online] Swinburne.edu.au. Available at: https://www.swinburne.edu.au/library/services/wifi-it-help-services/print-copy-scan/ [Accessed 11 May 2022].
- University of Technology, S., 2022. Our university. [online] Swinburne.edu.au. Available at:
 https://www.swinburne.edu.au/about/ouruniversity/#:~:text=Swinburne%20University%20of%20Technology%20is,gaining%20university%20status%20in%201992. [Accessed 11 May 2022].

Appendix A

Table showing the detailed description and data that the process reliant on

TASK	Task Description
1. Log in to Web Print	Students access to the web print website and log in with their studen t ID and password I/P: Student ID, Password O/P: None Tech: internet, smart device S.P: Internet System (I.S) provider, tech suppliers
2. Navigate to Web Print page	Students click on the Web Print page I/P: None O/P: None Tech: internet, smart devices S.P: IS provider, tech suppliers
3. Upload the Document(s)	Students click on select files, choose the document(s) they want to print, and upload them. The printer receives the documents and stor e them in the cloud system. I/P: documents O/P: none Tech: internet, internet browser, monitor, smart devices, cloud system S.P: I.S provider, Monitor BM, cloud provider
4. Start the printer	Students approach the printer and start it by tapping the Student ID card at the printer I/P: student ID card O/P: none Tech: card reader machine, printer S.P: tech suppliers

TASK	Task Description
5. Log in at the printer	Students enter the student ID, password at the printer using the printer screen I/P: student ID and password O/P: none Tech: printer S.P: tech suppliers
6. Printing setting	Students press "My print jobs" and select the job(s) they want to print. Then, press "Print" to start printing (as long as they have enough credit in their balance). I/P: none O/P: none Tech: printer S.P: tech suppliers
7. Printing operation	The printer receives starting command, it processes and prints the document(s) I/P: none O/P: none Tech: printer S.P: tech suppliers
8. END	The printer releases print job(s). Students receive the print jobs I/P: None O/P: the print jobs Tech: printer S.P: tech suppliers

Appendix B

New Printing Process Table

	TASK	Task Description
•	Establish connection with the printer	Students approach the printer and connect to the same Wi-fi network with the printer. I/P: None O/P: None Tech: Internet, Smart device S.P: I.S providers, Tech suppliers
	2. Log in to the Swinburne application	Students log in to their Swinburne application account using student ID and passcode. I/P: Student ID, Password O/P: None Tech: internet, smart device S.P: I.S providers, tech suppliers
	3. Navigate to the printing section	Students click on the Printing menu in the application. I/P: None O/P: None Tech: Internet, smart devices S.P: IS provider, tech suppliers
	4. Upload the document(s)	Students click on select files, choose the document(s) they want to print and upload them. The printer receives the document(s). I/P: Document(s) O/P: None Tech: Internet, Smart devices, Cloud system S.P: IS provider, Cloud provider



TASK	Task Description
5. Printing operation	The students press "Print" on the menu on their personal device. The printer receives starting command, it processes and prints the document(s). I/P: None O/P: None Tech: Printer S.P: Tech suppliers
8. END	The printer releases print job(s). Students receive the print job(s). I/P: None O/P: The print jobs Tech: Printer S.P: Tech suppliers