Singapore Management University

Institutional Knowledge at Singapore Management University

Research Collection Library | SMU Libraries

9-2020

Breaking out of your (hold) shelf, unleashing your (printer) daemons!

Ron BULAON
Singapore Management University, ronbulaon@smu.edu.sg

Follow this and additional works at: https://ink.library.smu.edu.sg/library_research

Part of the Library and Information Science Commons

Citation

BULAON, Ron. Breaking out of your (hold) shelf, unleashing your (printer) daemons!. (2020). *2020 IGeLU Conference, Virtual Conference, September 15-17*. 1-31.
Available at: https://ink.library.smu.edu.sg/library_research/178

This Presentation is brought to you for free and open access by the SMU Libraries at Institutional Knowledge at Singapore Management University. It has been accepted for inclusion in Research Collection Library by an authorized administrator of Institutional Knowledge at Singapore Management University. For more information, please email cherylds@smu.edu.sg.

SMU
SINGAPORE MANAGEMENT UNIVERSITY

Breaking out of your (hold) shelf, Unleashing your (printer) daemons!

By **Ron BULAON** of Singapore Management University

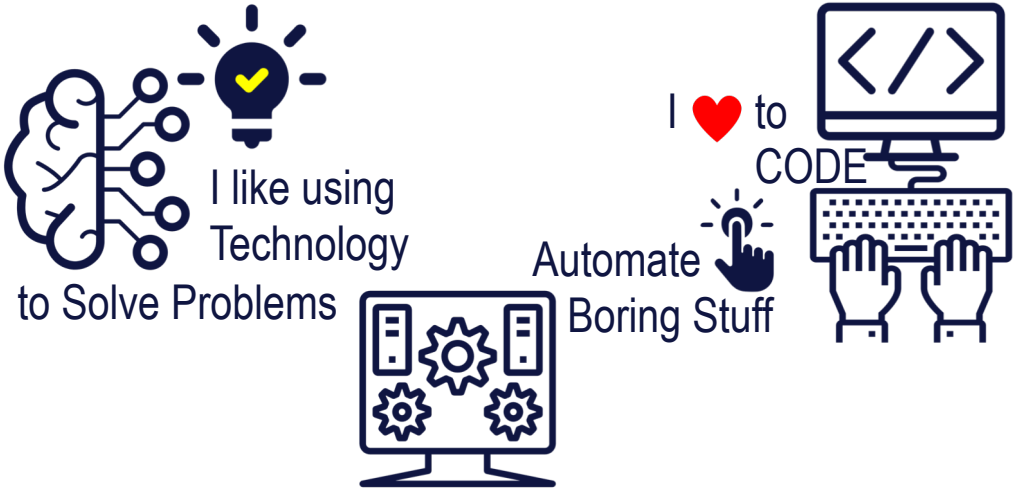
Contents

- Introduction (about the speaker and SMU).
- Motivation and background.
- Initial action plan and rationale for doing the change.
- How to configure.
- Flow chart.
- Sample output and Summary.
- Where can you download HoldSlipPrinter Daemon tool.

whoami

Hey everyone!

My name is **Ron BULAON**. I'm working at Singapore Management University (SMU) - Libraries as **Digital Innovation Manager**.



Singapore Management University - City Campus

Singapore Management University (SMU) was established in 2000 to nurture future responsible business leaders and creative entrepreneurs who will meet the demands of the global economy.

SMU schools and research areas

School of Accountancy

- Corporate Reporting & Disclosure
- Corporate Governance, Auditing & Risk Management
- Financial Intermediation & Information
- Financial Performance Analysis
- Accounting Information System

Lee Kong Chian School of Business

- Organisational Behavior & Human Resources
- Strategy & Organization
- Finance
- Quantitative Finance
- Operations Management
- Marketing
- Corporate Communication

Integrative Research Areas:

Asian & ASEAN Initiatives/ Social Inclusion and Innovation/ Natural Resources and Sustainable Businessess/ Business Models and Innovation/ Corporate Social Responsibility

School of Economics

- Economics Theory
- Econometrics
- Applied Microeconomics
- International Economics
- Macroeconomics

School of Social Sciences

- Sociology
- Political Science
- Psychology
- Humanities

Integrative Research Areas:

Contemporary Asian Society/ Urban Management & Urbanization/ Resources, Environment & Sustainability/ Social & Societal Impacts of Ageing/ Social Inclusion & Exclusion/ Gender Identity & Diversity / Individual & Collect Well-being

School of Law

- Asian and Comparative Legal Systems
- Public International Law, Regional and Trade Law
- Corporate Finance and Securities Law
- Private Law
- Innovation, Technology and the Law
- Dispute Resolution
- Legal Theory, Ethics and Legal Education
- Public Interest Law, Community and Social Justice
- Public Law

School of Information Systems

- Data Science & Engineering
- Cybersecurity
- Information Systems & Management
- Intelligent Systems & Optimization
- Software & Cyberphysical Systems

Integrative Research Areas:

Learning & Pedagogy/ Urban Systems & Operations/ Active Citizenry & Communities/ Safety & Security

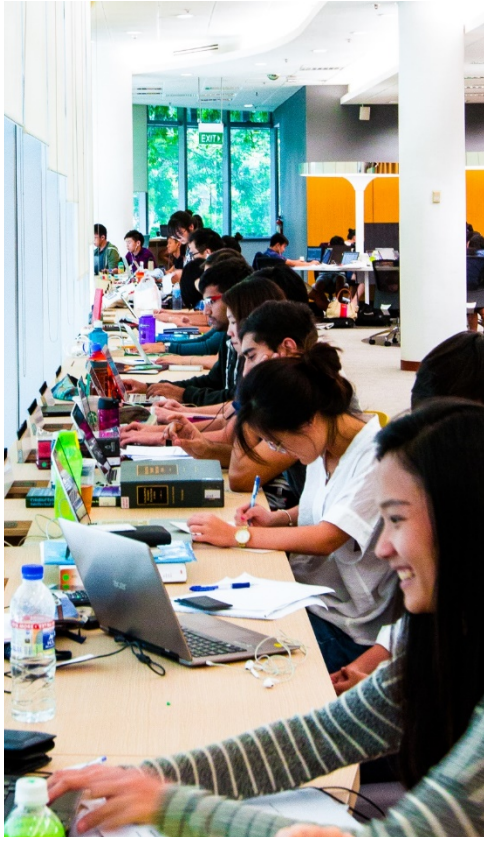
Home to over 9,800 students (undergrad + post-grad), across 6 schools

Updated as of 04 August 2017

SMU Libraries

Quick facts: SMU Libraries

- Over 550,000 books (Over 480,000 e-books)
- Access to 80,000+ e-journals
- 170+ electronic databases
- More than 3 million downloads from institutional repository
- Over 1.3 million visitors in 2019
- 38 staff: 23 professional librarians



SMU
SMU
SINGAPORE MANAGEMENT
UNIVERSITY

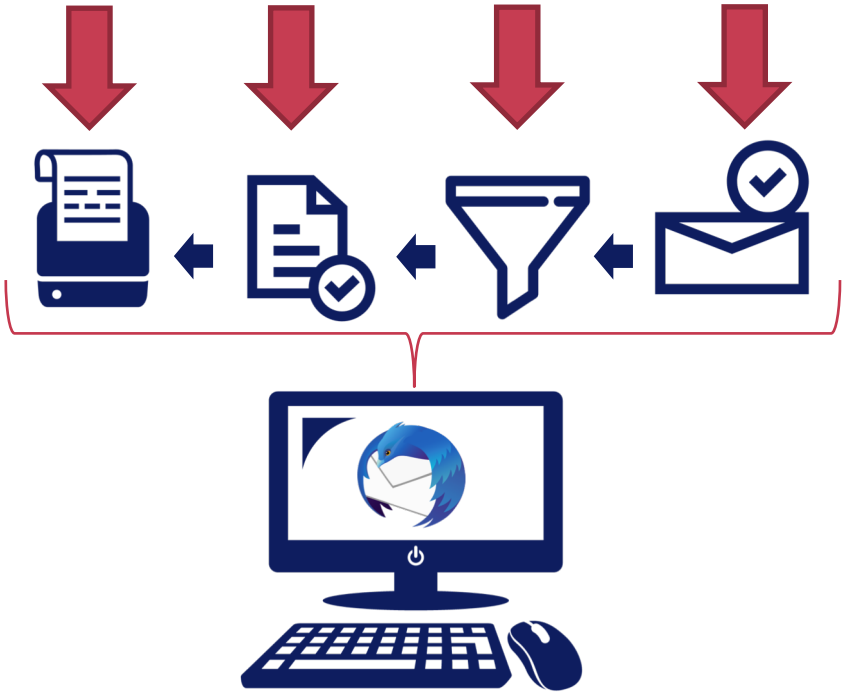
SMU
SINGAPORE MANAGEMENT UNIVERSITY
SMU
income

SMU
SINGAPORE MANAGEMENT
UNIVERSITY

YMCA

Lounge

Motivation and Background

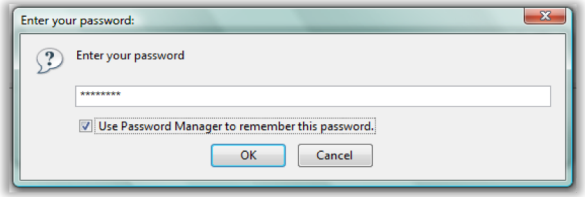


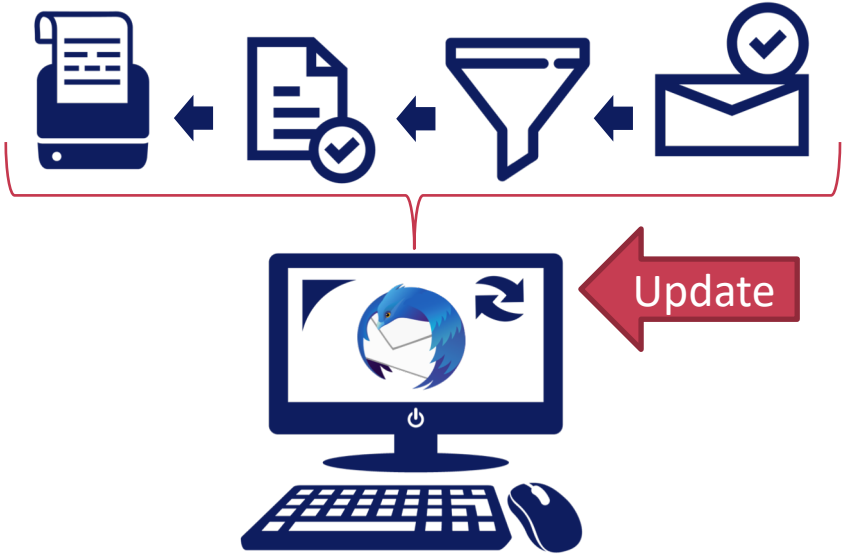
Thunderbird as Print Proxy:

- Check for new emails
- Run a filter to check if the email is a hold slip.
- If it pass the filter send it to the printer.

https://developers.exlibrisgroup.com/blog/using-thunderbird-as-a-print-proxy/

Motivation and Background





Subject: Resource Request Slip
From: <[redacted]@library.smu.edu.sg>
Date: [redacted]
To: <[redacted]@smu.edu.sg>

HOLD SLIP

For: [redacted]

Expires on: 04/02/2020

U00103080A

Guest on the law of assignment /
By: Liew, Ying Khai,

KD1238 .G84 2018

Location: Books Level 4

Library: Kwa Geok Choo Law Library

Request made: 17/01/2020

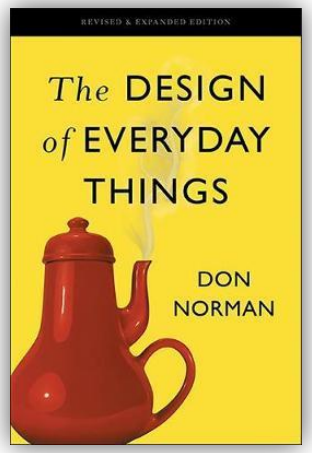
Notification sent: 30/01/2020

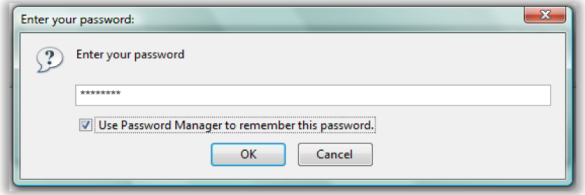
Request ID: 3115963850002601

Attachments:

request_id_barcode.png	0 bytes
item_id_barcode.png	0 bytes
logo.jpg	0 bytes

Why Build a HoldSlipPinter Daemon





Signifier prompts for action that is not usually required.

Semantic constraints
Logical constraints

Subject: Resource Request Slip
From: <[redacted]@library.smu.edu.sg>
Date: [redacted]
To: <[redacted]@smu.edu.sg>

HOLD SLIP

For: [redacted]

Expires on: 04/02/2020

U00103080A

Guest on the law of assignment /
By: Liew, Ying Khai,

KD1238 .G84 2018

Location: Books Level 4

Library: Kwa Geok Choo Law Library

Request made: 17/01/2020

Notification sent: 30/01/2020

Request ID: 3115963850002601

Attachments:

request_id_barcode.png	0 bytes
item_id_barcode.png	0 bytes
logo.jpg	0 bytes

Action Plan

Objective:

1. Build a solution that is within our control.
2. Free from unwanted updates.

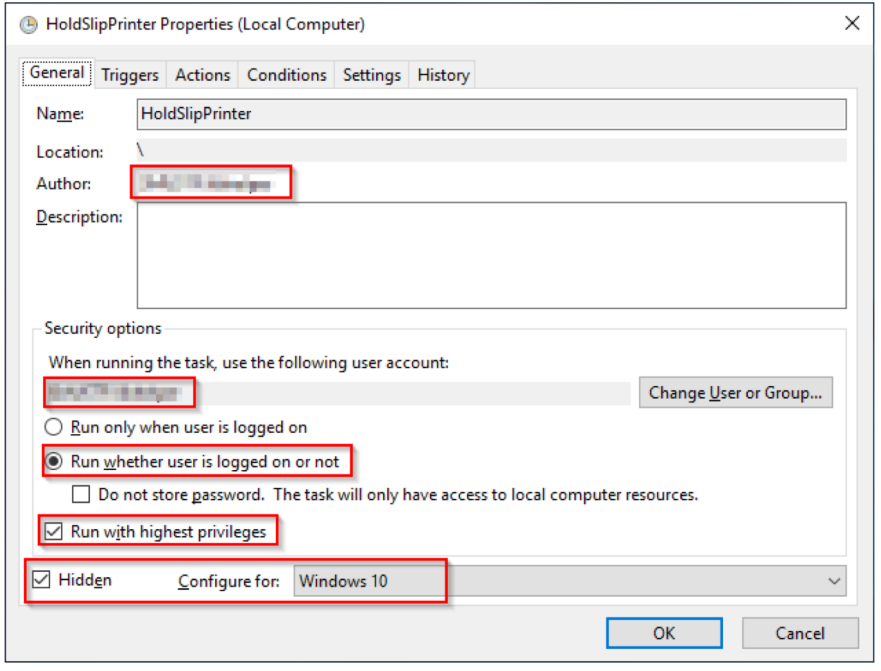
Implementation considerations:

1. User : No Graphical interface.
2. Technical Support : Single configuration file.
3. Administration : Smaller print out to save some paper.

How Configure and Use

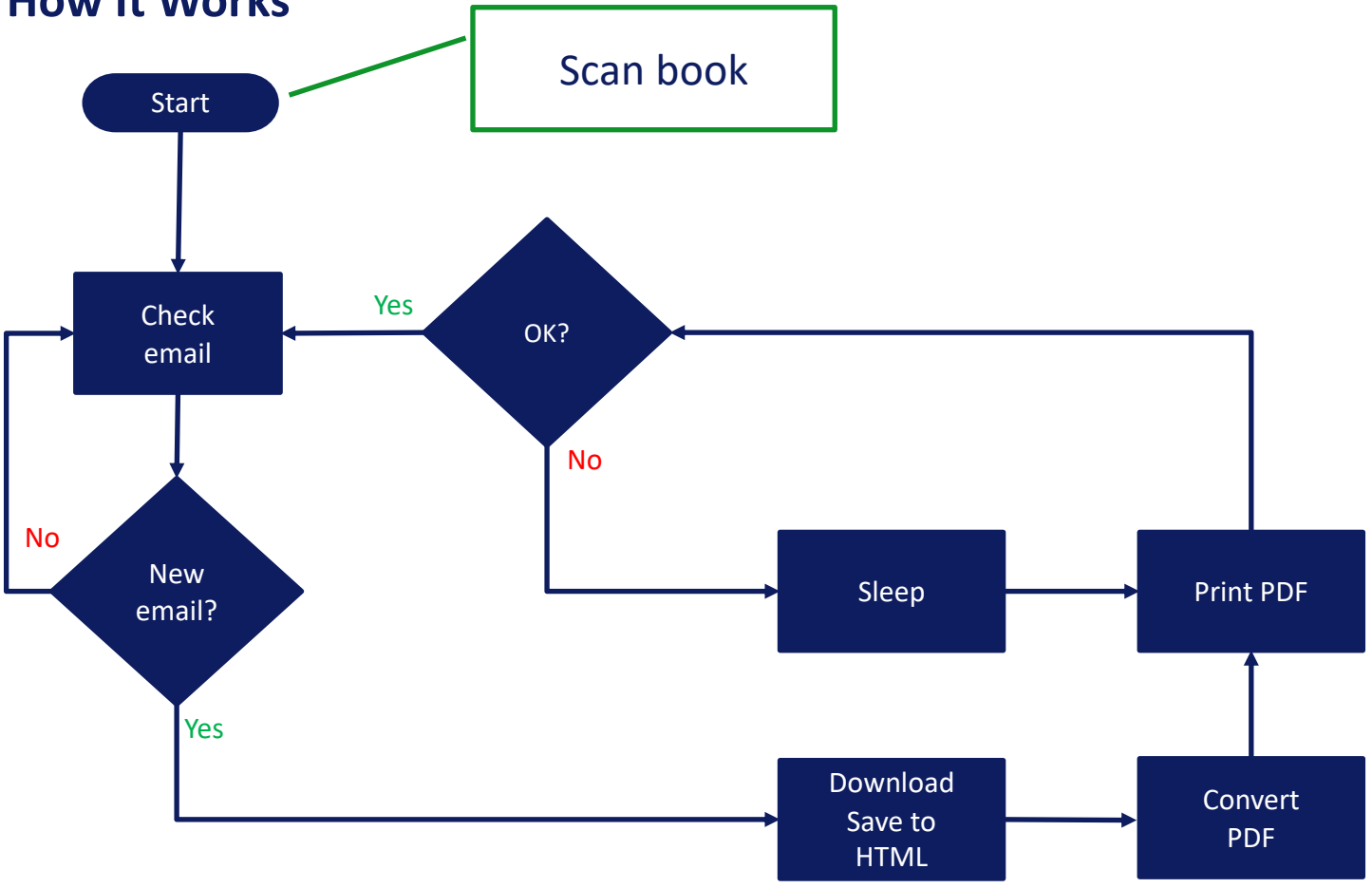
- Clone our repository from our github page.
- Easy Way. – Download the compiled version and configure the settings.

```
#holdslipprinter.ini

[DEFAULT]
mylocation = Li Ka Shing Library
email = your_email@domain.edu.sg
username = DOMAIN\userid
password = secure_password

[MAIL]
subject = Resource Request Slip
from = sender@domain.edu.sg

[MISC]
count = 20

[LOG]
folder = logs
retention = 2
```

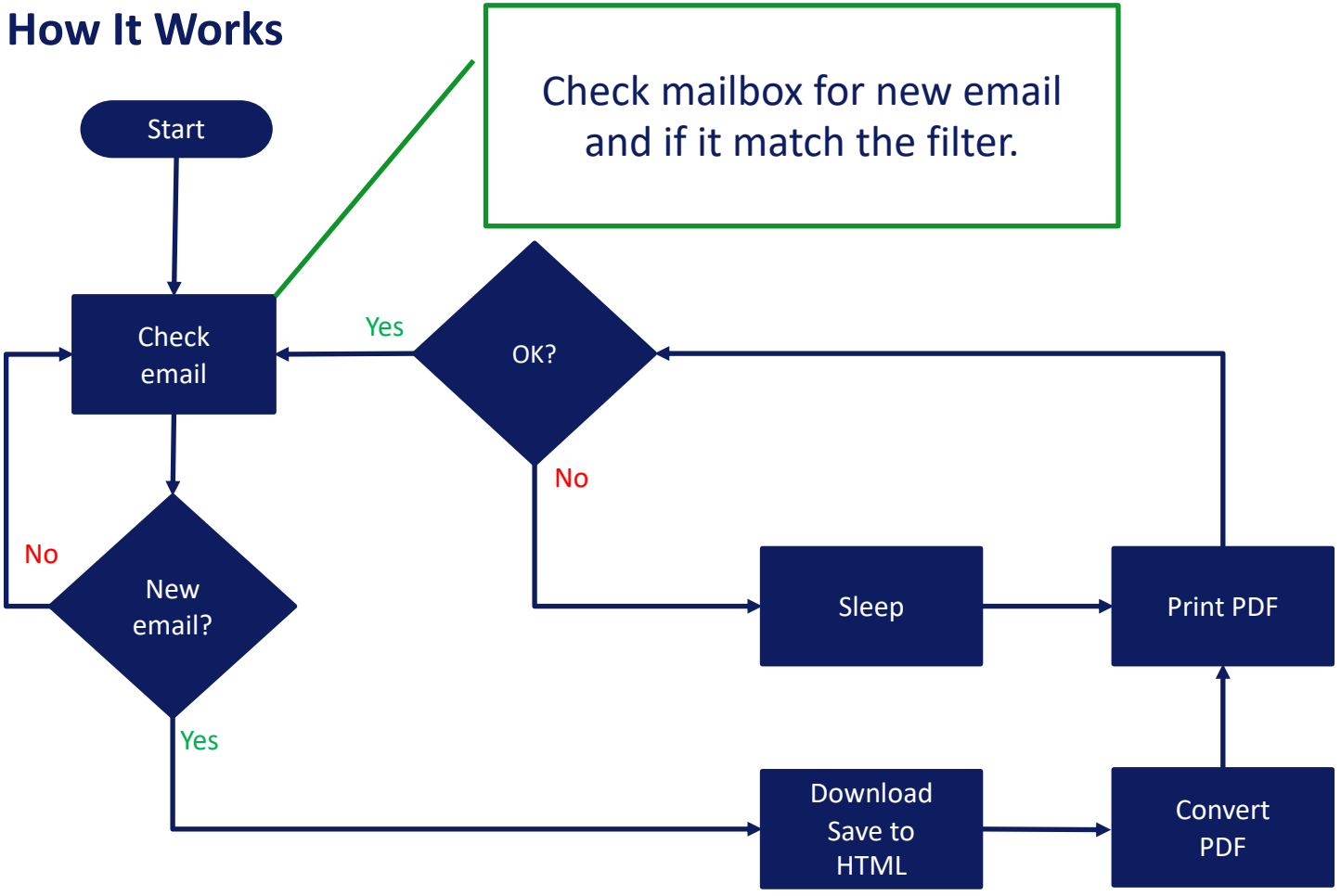


https://github.com/smu-libraries/HoldSlipPrinter

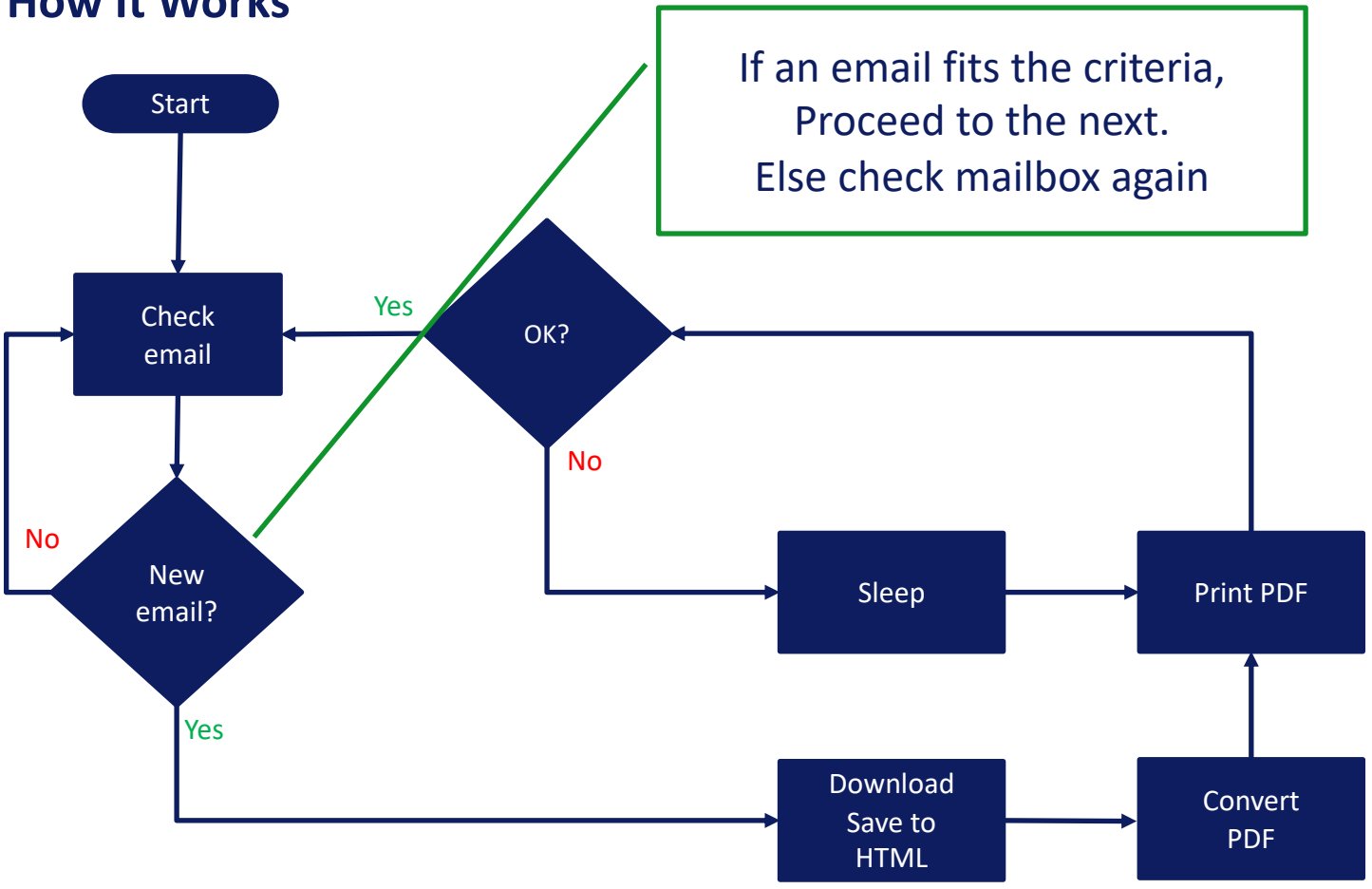
How It Works


Scan book
Start
Check email
Yes
OK?
No
No
New email?
Sleep
Print PDF
Yes
Download Save to HTML
Convert PDF

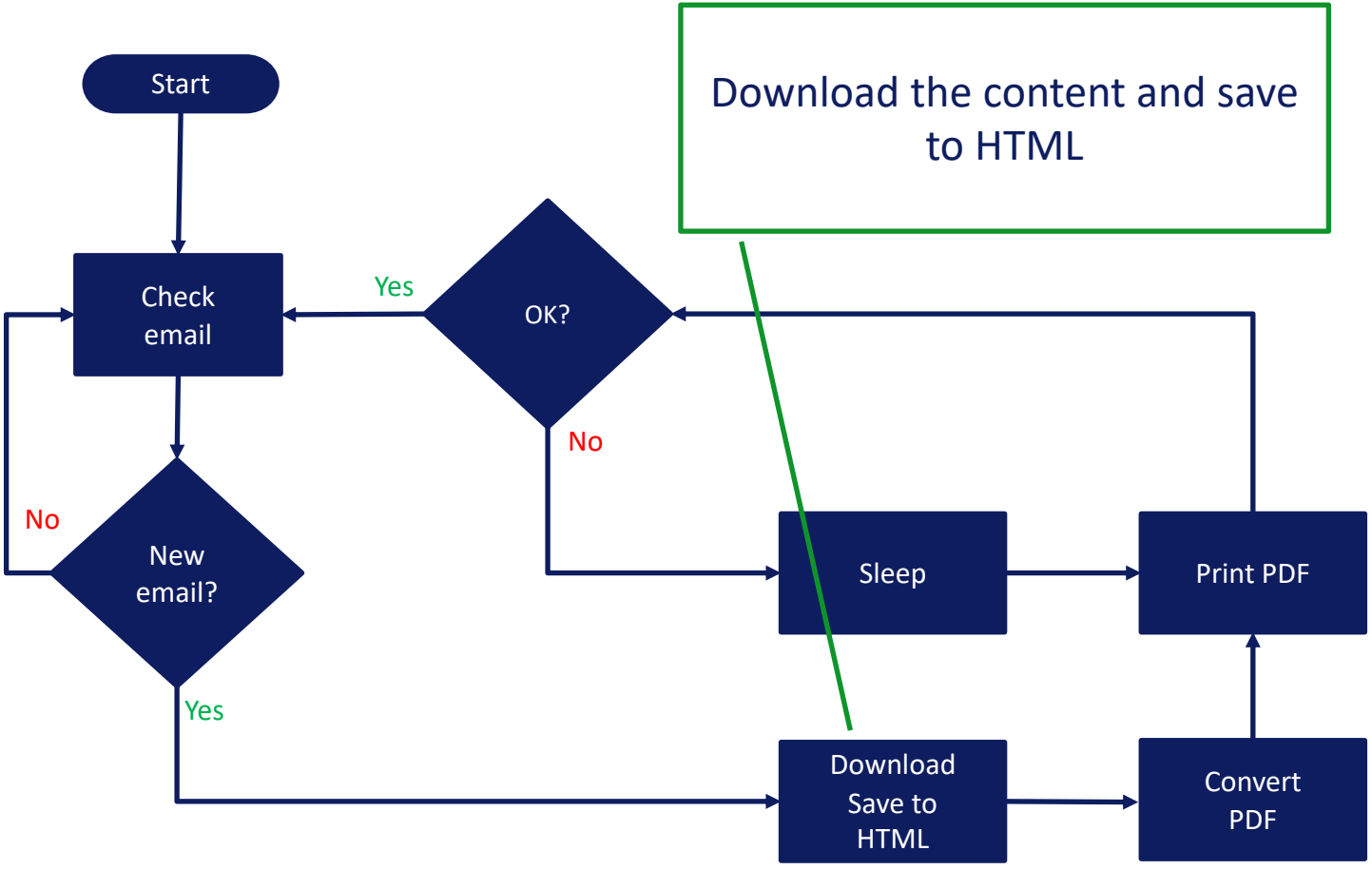
How It Works


Check mailbox for new email and if it match the filter.
Start
Check email
Yes
OK?
No
No
New email?
Yes
Sleep
Print PDF
Download Save to HTML
Convert PDF

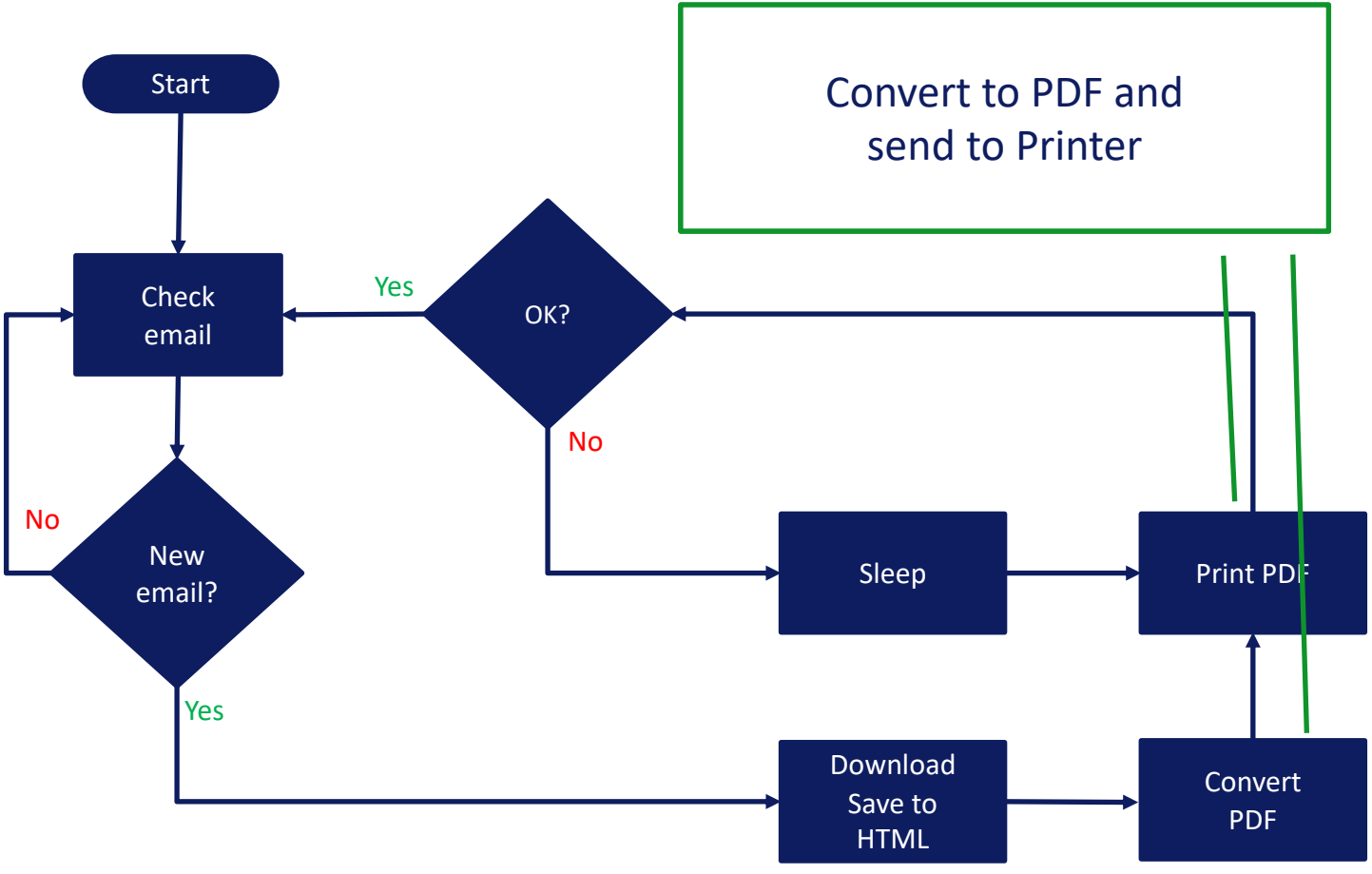
How It Works


If an email fits the criteria,
Proceed to the next.
Else check mailbox again
Start
Check email
Yes
OK?
No
No
New email?
Yes
Sleep
Print PDF
Download Save to HTML
Convert PDF

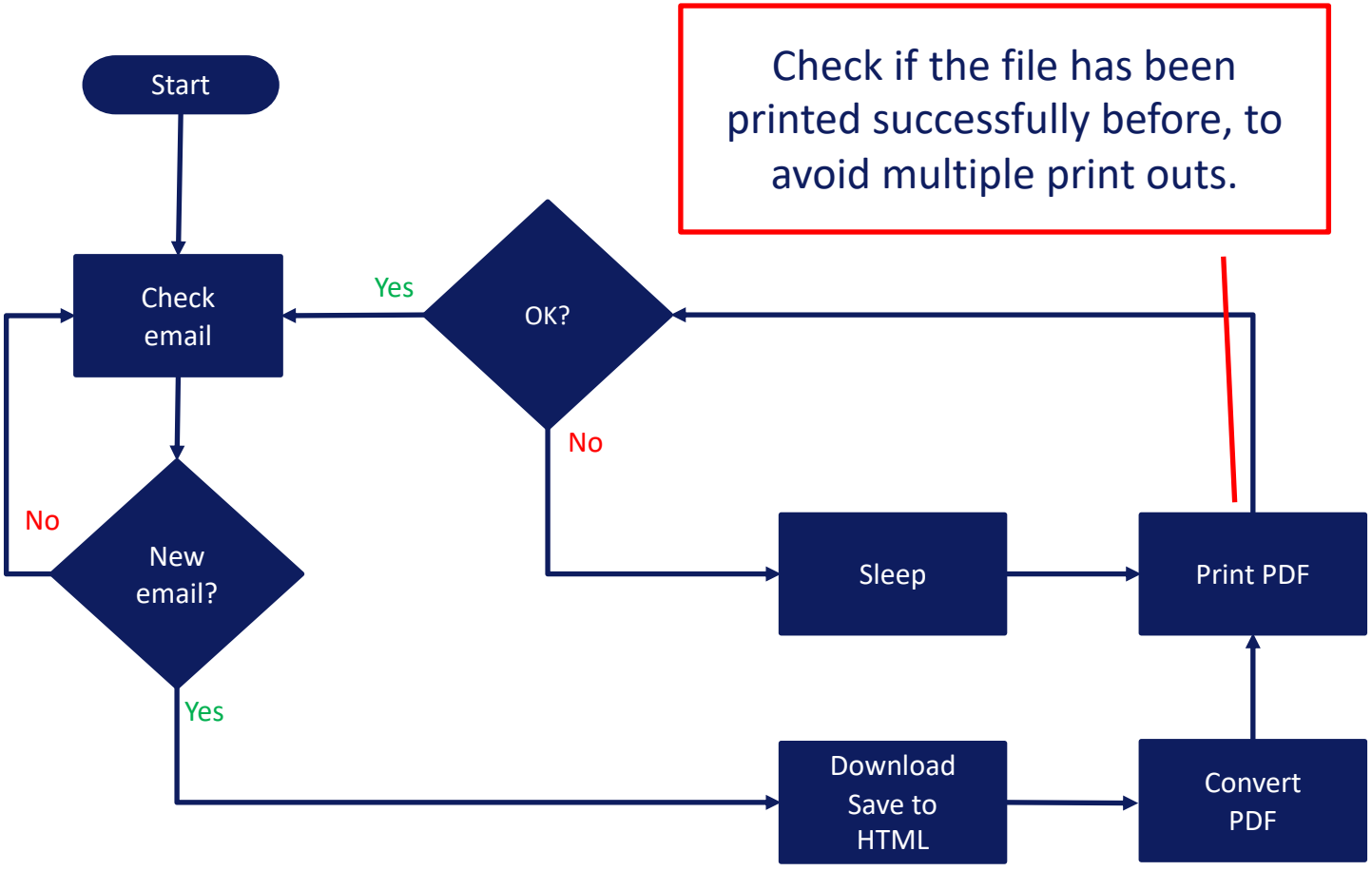
How It Works


Download the content and save to HTML
Start
Check email
Yes
OK?
No
No
New email?
Yes
Sleep
Print PDF
Download Save to HTML
Convert PDF

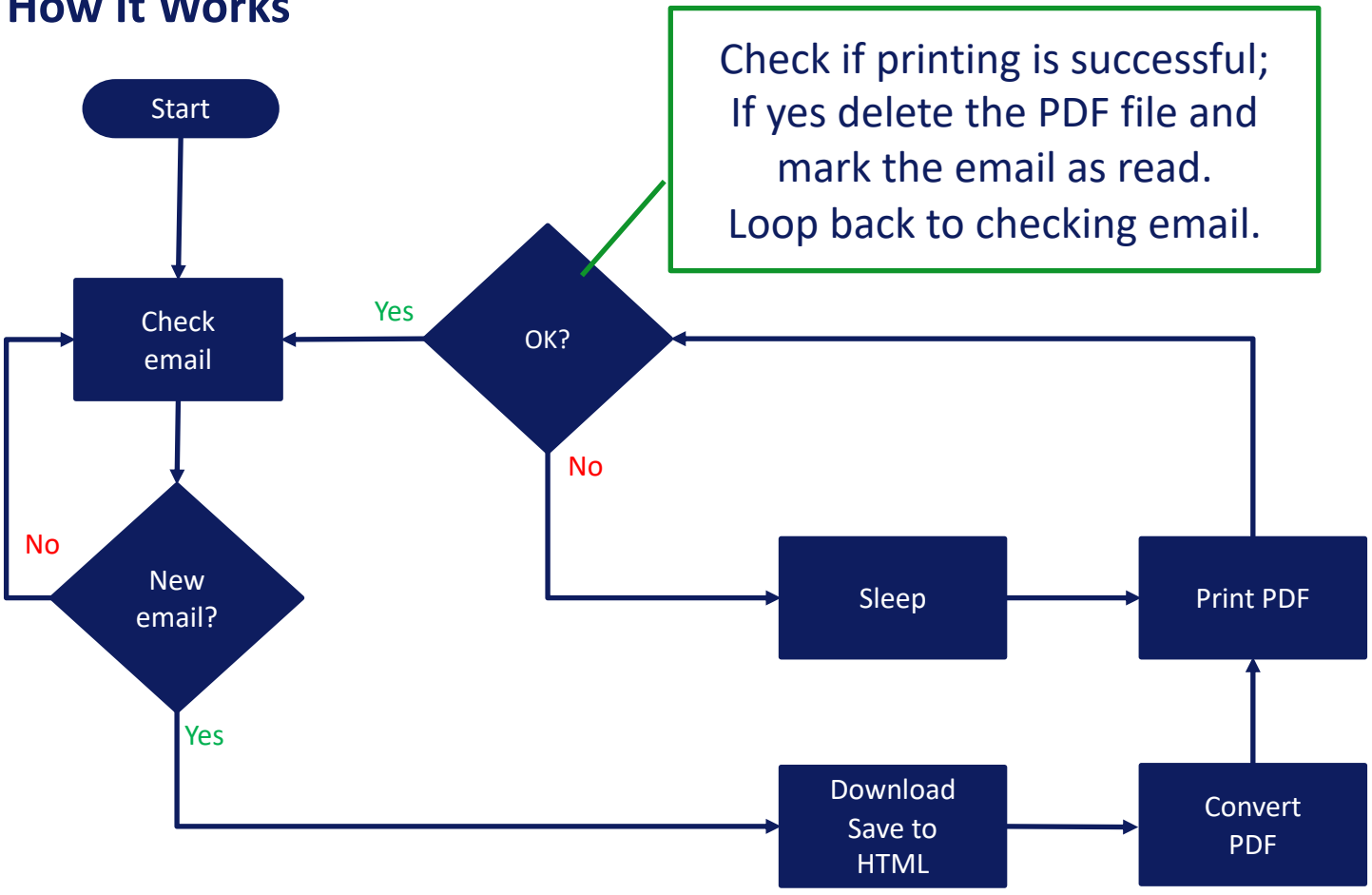
How It Works


Start
Check email
Yes
OK?
Convert to PDF and send to Printer
No
No
New email?
Sleep
Print PDF
Yes
Download Save to HTML
Convert PDF

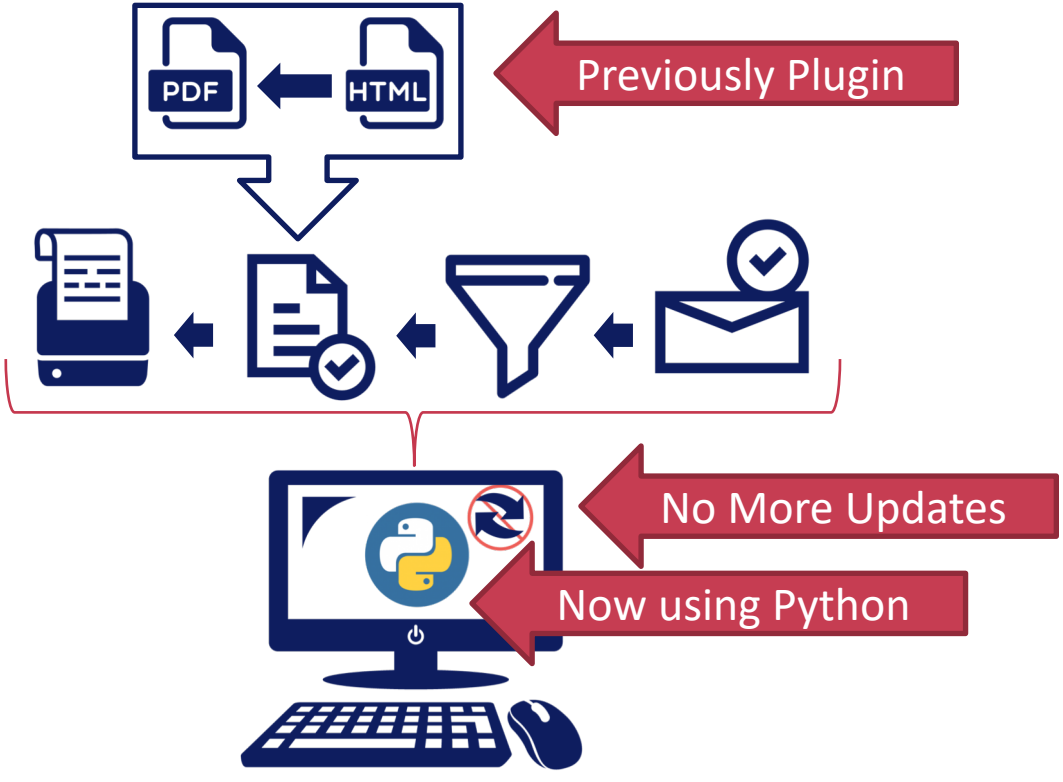
How It Works

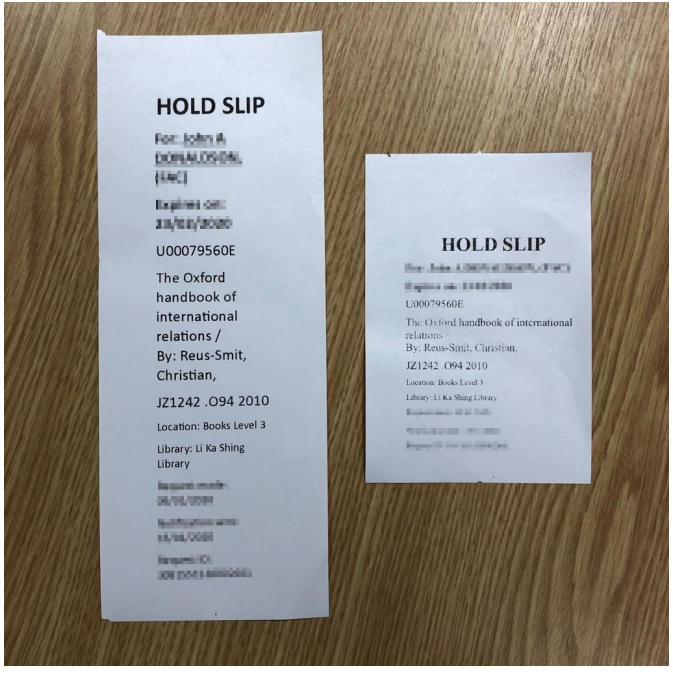

Check if the file has been printed successfully before, to avoid multiple print outs.
Start
Check email
Yes
OK?
No
No
New email?
Yes
Sleep
Print PDF
Download Save to HTML
Convert PDF

How It Works

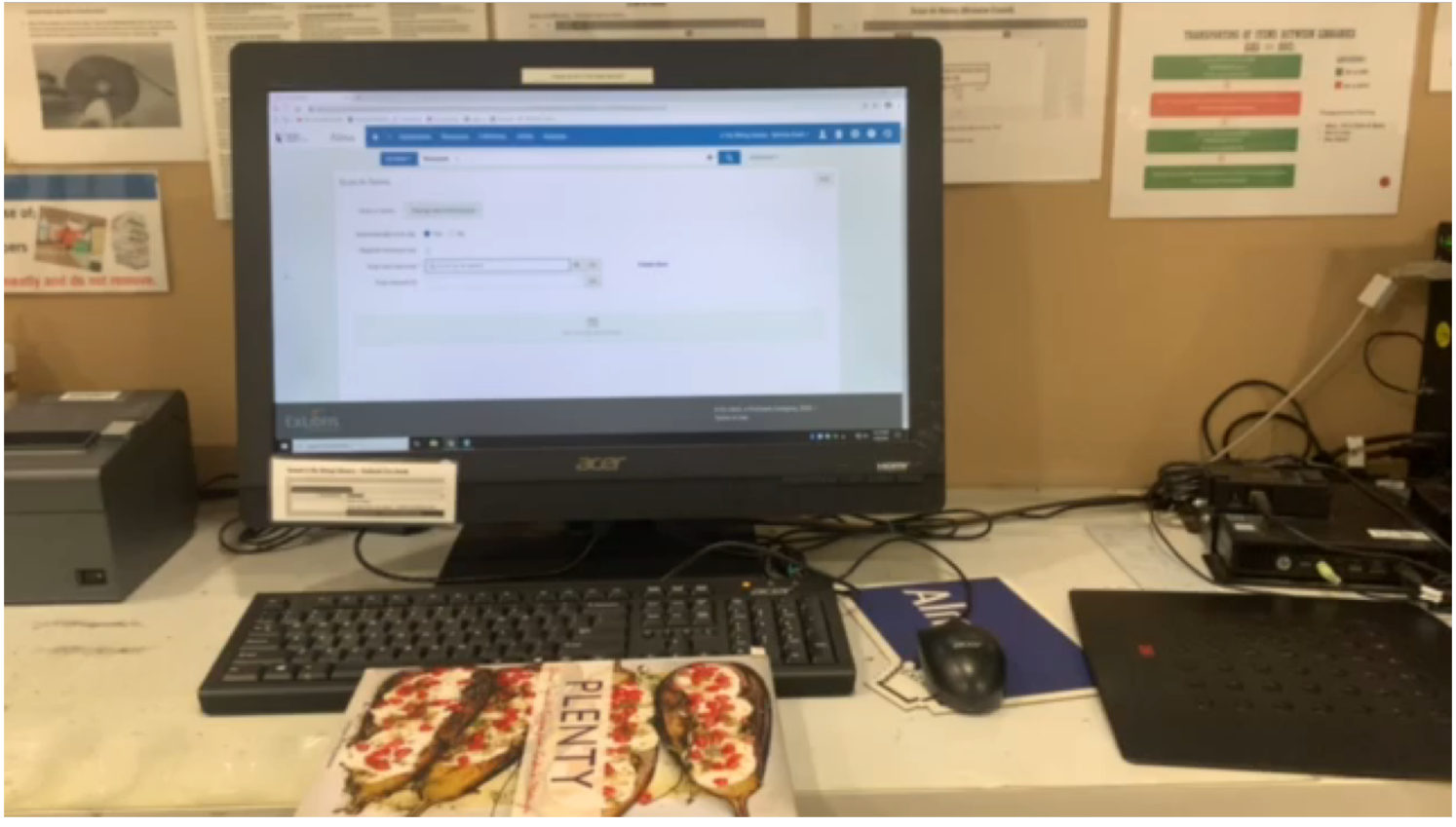

Check if printing is successful;
If yes delete the PDF file and
mark the email as read.
Loop back to checking email.
Start
Check email
New email?
No
Yes
OK?
Yes
No
Sleep
Print PDF
Download Save to HTML
Convert PDF

Summary


PDF
HTML
Previously Plugin
No More Updates
Now using Python


HOLD SLIP
U00079560E
The Oxford handbook of international relations /
By: Reus-Smit, Christian,
JZ1242 .O94 2010
Location: Books Level 3
Library: Li Ka Shing Library
HOLD SLIP
U00079560E
JZ1242 .O94 2010

Demonstration



SMU
SINGAPORE MANAGEMENT UNIVERSITY

Thank you!

Breaking out of your (hold) shelf, Unleashing your (printer) daemons!

By **Ron BULAON** of Singapore Management University

Ron BULAON

RonBulaon

ronbulaon@smu.edu.sg