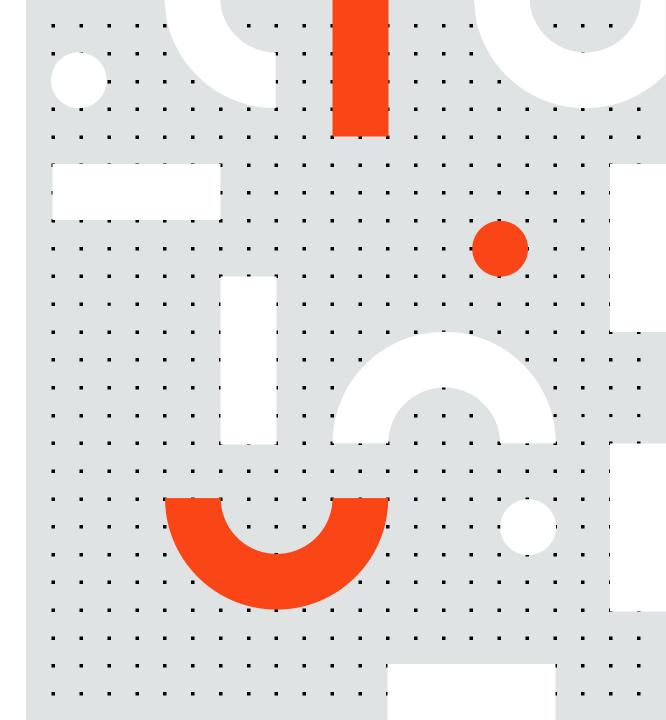
## RPA Design & Development

### **Email Automation**









What emails would you automate in your personal life? What about University or work?

- Consider emails received as well as sent
- Consider complexity vs. benefits
- Consider your personal life, the university and work

# Ui Path -

### Introduction to Email Automation



To this day, many business processes are triggered by email or generate email output.



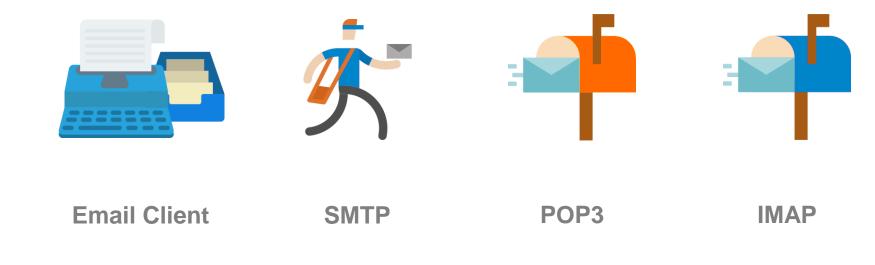
Estimates show that an average person spends between 5 and 11 hours a week checking, reading and responding to emails.



What can we automate?

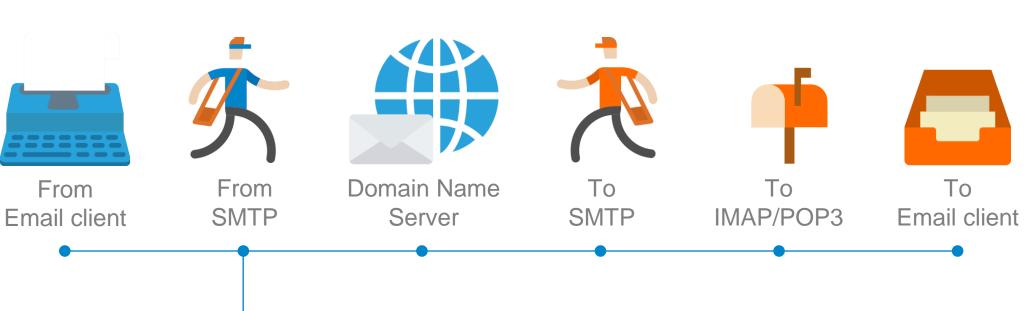
- Generating and sending automated messages
- Retrieving messages and extracting data
- Managing messages
- Saving attachments
- Saving messages

### **Key Concepts of Email Automation**



**Exchange** 

### **The Email Process**







### **UiPath Studio Activities**

UiPath Studio includes activities for sending, retrieving and organizing messages. The available categories are:

Generating and sending automated messages:

SMTP, Outlook and Exchange

Retrieving messages and extracting data:

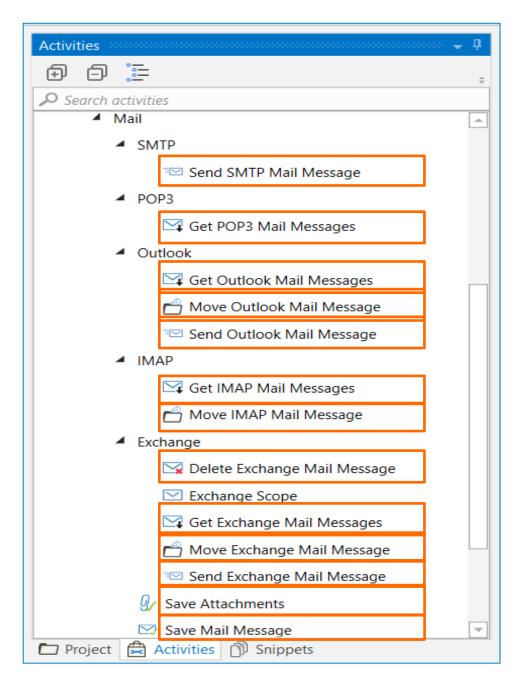
POP3, Outlook, IMAP and Exchange

Managing Messages:

Outlook, IMAP, Exchange

Saving attachments and emails:

Generic Email Activities



### **UiPath Studio Activities (Contd.)**



### Input via email

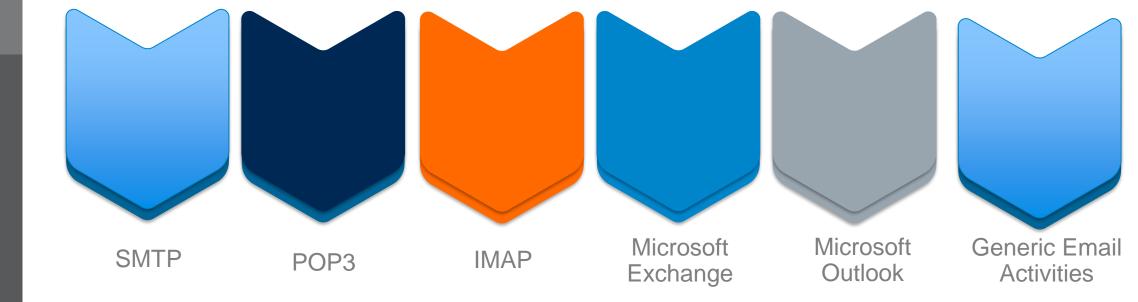
- Names or ID numbers from the subject or body
- Input files coming as attachments (.xls. .pdf)



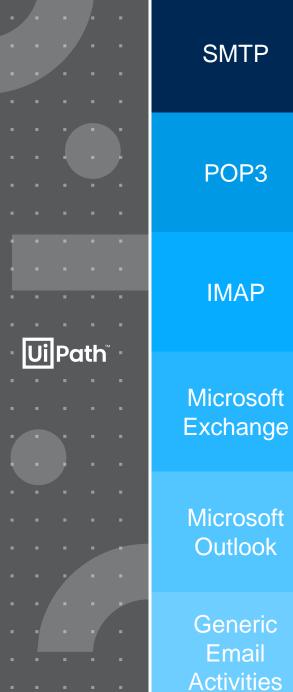
### **Email as output**

- Progress reports
- Exception alerts

### **Email Protocols**







P3

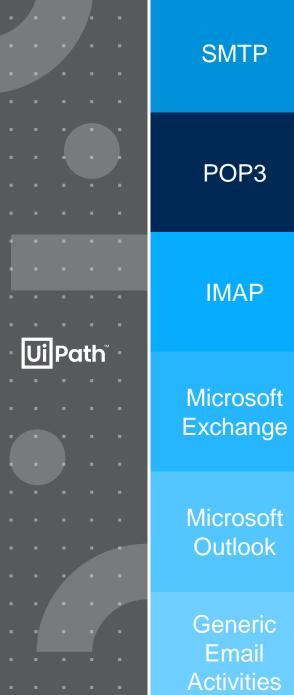
**Definition** 

SMTP stands for Simple Mail Transfer Protocol. Mail servers and other mail transfer agents use the SMTP protocol to send mail messages on TCP port 25.

Scope

Email as output. SMTP can be used with Gmail to send emails.

UiPath Studio Activities Send SMTP Mail Message



### POP3

**Definition** 

POP3 stands for Post Office Protocol and is an old and almost obsolete protocol for reading messages but most email servers support it.

Scope

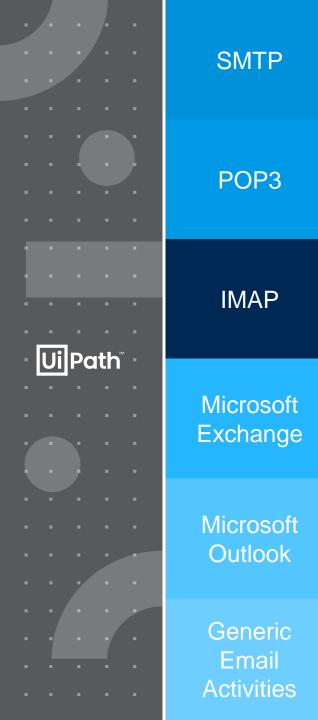
Input via email. POP3 can be also used to retrieve email from Gmail.

**UiPath** 

■ POP3

Get POP3 Mail Messages

**Studio Activities** 



### **IMAP**

**Definition** 

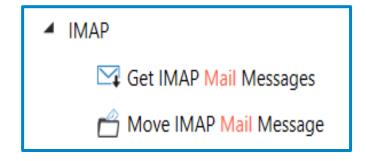
IMAP or Internet Message Access Protocol is only used for receiving messages

This offers some useful features to mark messages as read or move them between folders.

Scope

Input via email. IMAP can be also used to retrieve email from Gmail.

UiPath Studio Activities





### **Microsoft Exchange**

POP3

**Definition** 

Exchange is Microsoft's enterprise email solution that UiPath integrates perfectly, which help to sends and received emails.

**IMAP** 

Scope

Sends and receive emails

Microsoft Exchange

Microsoft Outlook

Generic Email Activities UiPath Studio Activities ✓ Exchange
 ✓ Delete Exchange Mail Message
 ✓ Exchange Scope

Get Exchange Mail Messages

Move Exchange Mail Message

Send Exchange Mail Message



### Microsoft Outlook

POP3

Definition

Microsoft Outlook is a personal information manager from Microsoft. It is mainly used as an email client. This functionality is what we are focusing on in this course.

**IMAP** 

Scope

Input via email and email as output.

Microsoft Exchange

Microsoft

Outlook

**UiPath Studio** 

**Activities** 

Move Outlook Mail Message

Get Outlook Mail Messages

Outlook

Send Outlook Mail Message

Generic Email Activities



### **Generic Email Activities**

POP3

IMAP

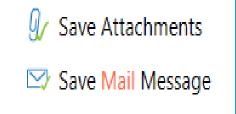
Microsoft Exchange

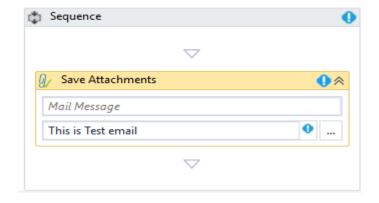
Microsoft Outlook

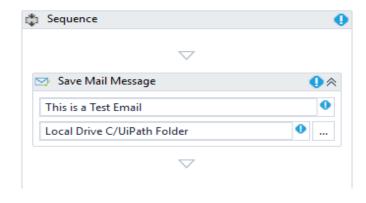
Generic Email Activities **Definition**There are two generic email activities available for saving email messages and email attachments on the local drive.

Scope Input via email.

UiPath Studio Activities







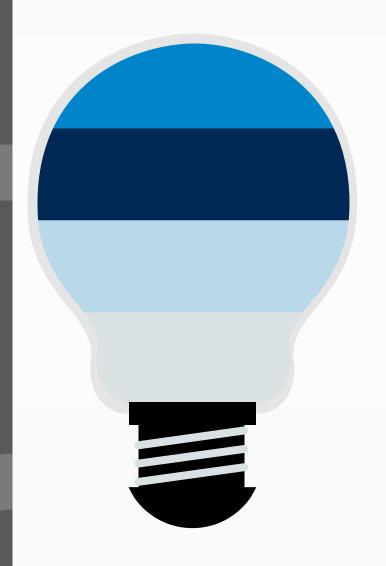
### **Practice** makes perfect...





What activities would you use to automate the email processes written down in the first discussion?

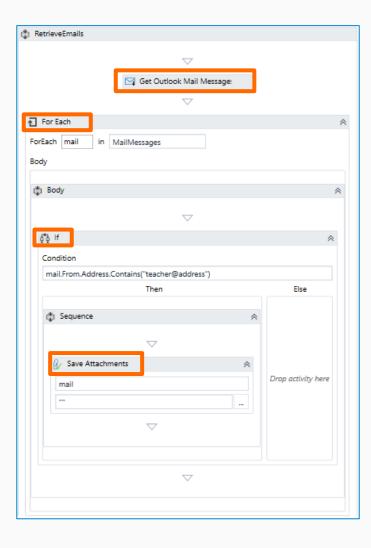
### Let's Practice Retrieving Emails



Can you write an automation project in UiPath
Studio to retrieve emails from Outlook and save
attachments for the emails sent by
teacher@address?

### **Retrieve and Save Emails from Outlook**





Ui|Path |

### Main steps of the solution

- **1. Get Outlook Mail Messages** Retrieve a set amount of emails from the Outlook inbox.
- For each Type of argument used is System.Net.Mail.MailMessage
- 3. If The condition here is used to see if one of the emails in the list retrieved is from the teacher or not.
- 4. Inside the 'If' we have the **Save Attachments** activity, which saves the attachments from the email sent from the teacher. The attachments are saved in the local folder of the project.

### Let's Practice Sending Emails

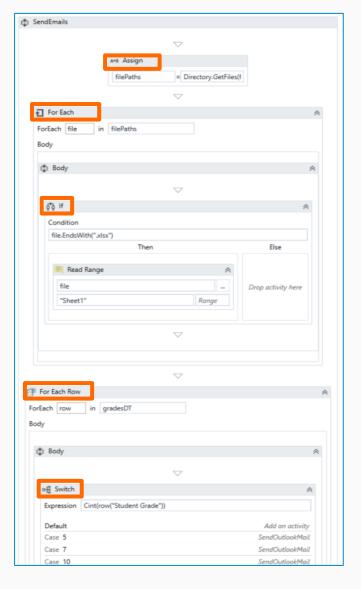


Can you write an automation project in UiPath
Studio to read an .xlsx file and send a custom email
to each student, based on their email address,
name and grade?

## Ui|Path"

### **Sending Emails from Outlook**





### Main steps of the solution

- 1. Assign Activity This is used to retrieve all the files inside the folder project.
- 2. For Each Simple string argument.
- 3. If If the file ends with .xlsx we will read the whole file.
- 4. For Each Row This will iterate through the rows of the previously read excel file.
- Switch Depending on the grade the student received, he will also receive a personalized message inside the email.

### **Questions and Answers**





## Ui Path

## Which email processes can we automate in UiPath Studio? (Multiple Select)

- a) Generating and sending automated messages
- b) Retrieving messages and extracting data
- c) Managing messages
- d) Saving attachments
- e) Saving messages
- f) Understanding and summarizing messages



## Which factors would you take into account when deciding the types of email processes to automate? (Multiple Select)

- a) Type of input (standard, structured or unstructured)
- b) Type of output (standard, structured or unstructured)
- c) Sender domain
- d) Time savings
- e) Communication language
- f) Quality improvement

# Ui Path" ·

## Which activity groups do you have available for sending emails? (Multiple Select)

- a) SMTP
- b) Exchange
- c) IMAP
- d) Outlook
- e) POP3

# Ui Path" ·

## Which activity groups do you have available for retrieving emails? (Multiple Select)

- a) SMTP
- b) Exchange
- c) IMAP
- d) Outlook
- e) POP3



You have a csv file with the test scores for 10 students. You want to automate sending each one an email with their grade. In this example email is an .....

a) Input

b) Output

### **Next Steps**



Debugging and Exception Handling

