**List the required XPaths to code the robot. Aim to use XPaths that do not rely on the dynamics of a HTML page! (Without //\*)**

**ING Manager:**

Username field: //\*[@id="cifField"] OR //div[@id="cifHolder"]//input

Title of account: //div[@id="titleWrapper"]//h1

Check Orange Everyday available balance: (//span[contains(@class, "-available-balance")])[1] OR

//\*[@id="summary-container"]/div[2]/div[1]/div[6]/span[2]

Check Savings balance: (//span[contains(@class, "-available-balance")])[3]

Log out button: //div[contains(@class, "button-cell")]//button

Orange everyday XPath: //\*[@id="summary-container"]/div[2]/div[1]/div[6]/span[2]

Savings XPath: //\*[@id="summary-container"]/div[2]/div[3]/div[6]/span[2]

Transfer and pay: //\*[@id="mainMenuList"]/li[4]/div/div[2] OR

//li[@data-target="#navigation-transfer"]//div//div[1]

Between accounts: //\*[@id="navigation-transfer"]/li[2]/div

OR

//li[@data-target="#navigation-transfermoney"]//div

From: //\*[@id="from\_target"] OR //div[@id="from\_target"]

Savings Maximiser: //\*[@id="from\_listboxitem0"]

OR

//paper-listbox[@id="from\_listbox"]//ing-account-item[contains(@aria-label, "Savings Maximiser")]

To: //\*[@id="to\_target"] OR //div[@id="to\_target"]

Orange Everyday: //\*[@id="to\_listboxitem0"]

OR

//paper-listbox[@id="to\_listbox"]//ing-account-item[contains(@aria-label, "Orange Everyday")]

Amount: //\*[@id="amountInput"]/div

OR

//ing-field[@id="coreField"]//input[contains(@aria-describedby, "amountInput")]

Description I’ll see: //ing-field[@id="coreField"]//input[contains(@aria-describedby, "desc\_validation")]

Send me an email receipt: (//ing-checkbox[@id="template-checkbox-receipt"]//div//label)[1]

Transfer: //button[@id="transferButton"]

Confirm: //button[@id="confirmButton"]

Dismiss: //paper-button[@aria-label="Close alert."]//paper-ripple/.. **(DOES NOT WORK)**

Log out after a transfer is successful: //button[contains(@class, "uia-logout btn btn-blue")] **(DOES NOT WORK)**

Return to home: //span[contains(text(), "Home")]/..

**Github Manager:**

URL: https://github.com/login

Username or email address: //\*[@id="login\_field"] OR //input[@id = "login\_field"]

Password: //\*[@id="password"] OR //input[@id = "password"]

Sign in button: //\*[@id="login"]/div[4]/form/div/input[13] OR //input[@type = "submit"]

To the website: /html/body/div[1]/div[6]/div/div/aside/div/div/loading-context/div/div[1]/div/ul/li/div/div/a

OR

(//div[@class = "wb-break-word"]//a)[2]

Add file: //\*[@id="repo-content-pjax-container"]/div/div/div[2]/div[1]/div[2]/details/summary/span[1]

OR

//summary[@class = "btn ml-2"]//span[contains(@class, "d-md-flex")]

Upload files: //\*[@id="repo-content-pjax-container"]/div/div/div[2]/div[1]/div[2]/details/div/ul/li[4]/a

OR

//a[contains(text(), "Upload files")]

Uploaded file indicator: //\*[@id="repo-content-pjax-container"]/div/div[4]/div/div/div[2]

Choose your files: //\*[@id="upload-manifest-files-input"]

OR

//input[@aria-label = "Choose your files"]

Commit changes: //\*[@id="repo-content-pjax-container"]/div/form/button

OR

//button[contains(text(), "Commit changes")]

Are you sure you want to sign out?: /html/body/div[1]/div[6]/main/div/form/input[2]

OR

//input[@value = "Sign out"]

For you button: //button[@id = "feed-next"] (DOES NOT WORK???)

Click on website in homepage: (//a[contains(@href, “brichan17.github.io”)][contains(@class,"mb-2")])[1]

Click on add files button: //button[@aria-label = "Add file"]

Click on upload files button: //span[contains(text(), "Upload files")]

**HSBC Managers:**

**HSBC Australia:**

Log On: (//a[@role="button"][@aria-expanded="false"])[1]

OR

/html/body/div[1]/div/header/div[3]/div/div[1]/div/div/div/div/div/nav/ul/li[5]/div/a[1]

Online Banking: (//a[@class = "login-link"][@data-event-name = "Online Banking"])[1]

OR

/html/body/div[1]/div/header/div[3]/div/div[1]/div/div/div/div/div/nav/ul/li[5]/div/ul/li[1]/a

Username: //input[@id = "username"]

Continue: //input[@id = "formSubmitButton"]

Continue login: //input[@value = "Continue"]

Use password instead: //a[@id= "switch\_password"]

Security code: //input[@id = "offlineotp"]

Password: //input[@id = "idPassword”]

SMS verification: //label[@for = "TB\_SMS"]/..

Continue: //button[@id="trusted\_continue\_button"]

Yes, this is my device: //label[@for = "TB\_YES"]

Final login: //button[@id="trusted\_logon\_button"]

Header for account page: //p[@class = "log fontSmallest"]//span[contains(text(), "YAO MING CHAN")]

Click on Australia Global Account: //\*[@id="hdx\_dijits\_TitlePane\_0\_pane"]/div[2]/span[1]/a

OR

(//a[@class = "itemDetailsContainer investBundleValue"])[1]

Click on UK Global Account: //\*[@id="hdx\_dijits\_TitlePane\_0\_pane"]/div[2]/span[2]/a/span[1]/span

OR

(//a[@class = "itemDetailsContainer investBundleValue"])[2]

Balance field: //\*[@id="balanceField"]/span[3]

Available balance field: //div[@class = "nonBalanceFiguresCSS"]//span[@class = "funds"]

Move money: //\*[@id="accountsummary"]/div/div[1]/ul/li

OR //ul[@class = "summaryNavigation"]//li

New transaction address: <https://www.services.online-banking.hsbc.com.au/gpib/group/gpib/cmn/layouts/default.html?uid=newtransaction&mode=transfer>

Amount: (//input[contains(@id,"group\_gpib\_mvmny")]/..//span[contains(text(),"Enter amount")])[1]/../input[1]

Description (optional): (//input[contains(@id,"group\_gpib\_mvmny")]/..//span[contains(text(),"Enter details")])/../input

Continue: //div[@class="submitButtonsPanel"]//span[contains(text(), "Continue")]

Confirm (**Must be pressed quickly!**): //input[contains(@value,"Refresh rate")]/..//button[contains(text(), "Confirm")]

OR

//button[contains(@class, "verifyConfirmButtonWrapper")]

Cancel: //\*[@id="hdx\_dijits\_form\_Form\_1"]/div[14]/div[4]/button **OR**

(//div[@class="submitButtonsPanel"]//button[@class = "btnTertiary"][contains(text(), "Cancel")])[1]

The latter one is better because there is **no explicit reference to the dynamic webpage**.

Are you sure you want to cancel?: //div[@class="submitButtonsPanel"]/button//span[@class="accessible"]/..

Log off: //a[@title = "Log off"]

**HSBC UK:**

Accept all cookies: //button[@id = "consent\_prompt\_submit"]

Log on: //a[@data-event-component = "topnav"][contains(text(), "Log on")]

Enter username: //input[@id = "username"]

Enter security code: //input[@id = "offlineotp"] (Wait for this)

Greeting header: //h1[@class = "greeting-header"] (Wait for this)

Log off button: //button[@type = "submit"][contains(text(), "Log off")]

Statements: //div[contains(text(), "Statements")]

Choose an account: //span[@class = "Account-arrow"] (Also use this as a wait)

Select account: //ul[@class = "select-options"]//li

Statement type: //span[@class = "Statement type-arrow"]

Statements: //li[@aria-label = "Statements"]

No statements message: //span[@id = "noStatementsResultErr"] (Use this in an if statement)

HSBC Advance: //ul[@class = "select-options"]//li

Account details: //div[@class = "account-details secondary-details"]

Date of last transaction: (//date-display//div)[1]

Where last transaction occurred: //div[contains(@id, "preview-0")]//p//span

Amount in last transaction: (//td[contains(@class, "column3")])[1]//p

Amount out last transaction: (//td[contains(@class, "column4")])[1]//p

Available balance: //p[@id = "account-amount"]

**HSBC Australia Download Statements (DISCONTINUED):**

Manage button: //button[@title="Manage"]

View and print statement: //a[contains(text(), "View and print")]

Wait for statements/notifications header: //span[@title = "Statement/Notifications"]

View statement: //a[contains(text(), "View")][contains(@class, "btnTertiary")]

Download button: //cr-icon-button[@id = "download"]//div[@id = "icon"]//iron-icon ???

**HSBC Australia Statement Generator:**

Available balance field (for both Australia and UK): //div[@class = "nonBalanceFiguresCSS"]//span[@class = "funds"]

Click on Australia Global Account: (//a[@class = "itemDetailsContainer investBundleValue"])[1]

Click on UK Global Account: (//a[@class = "itemDetailsContainer investBundleValue"])[2]

Last transaction date Australia **(excluding pending transactions)**: (//td[@class = "date"][not(contains(./span/@class, "payeeItem0 pendingGrayColor"))])[1]

Description Australia **(excluding pending transactions)**: (//td[@class = "payee"]//span[@class = "payeeItem0"])[1]

Amount of last transaction Australia **(excluding pending transactions)**: (//td[@class = "amount"]//span[@class = "amountSpan"][not(contains(./span/@class, "payeeItem0 pendingGrayColor"))])[1]

Last transaction date UK **(excluding pending transactions)**: (//td[@class = "date"][not(contains(./span/@class, "payeeItem0 pendingGrayColor"))])[1]

Description UK **(excluding pending transactions)**: (//td[@class = "payee"]//span[@class = "payeeItem0"])[1]

Amount of last transaction UK **(excluding pending transactions)**: (//td[@class = "amount"]//span[@class = "amountSpan"][not(contains(./span/@class, "payeeItem0 pendingGrayColor"))])[1]

Currency GBP: //span[@class = "currencyType"][contains(text(), "GBP")]