

--- Config.py ---

#ignored not pushed to git!

class Config:

DISCORD\_TOKEN =

'MTI2OTM4MTE4OTA1NjMzNTk3Mw.GJdUct.-2RsoynZh78VFGdoXdrXWFhFQPbUCHM7V2w-u8'

CHANNEL\_ID = 1269383349278081054

DATABASE\_PASSWORD = 'postgres'

--- css\_selectors.py ---

class Selectors:

SELECTORS = {

"google": {

"url": "https://www.google.com/"

},

"ebay": {

"url": "https://signin.ebay.com/signin/",

"email\_field": "#userid",

"continue\_button": "[data-testid\*='signin-continue-btn']",

"password\_field": "#pass",

"login\_button": "#sgnBt",

"price": ".x-price-primary span" # CSS selector for Ebay price

},

"bestbuy": {

"priceUrl":

"https://www.bestbuy.com/site/microsoft-xbox-wireless-controller-for-xbox-series-x-xbox-series-s-xb

ox-one-windows-devices-sky-cipher-special-edition/6584960.p?skuId=6584960",

"url": "https://www.bestbuy.com/signin/",

```

"email_field": "#fld-e",

#"continue_button": ".cia-form__controls button",

"password_field": "#fld-p1",

"SignIn_button": ".cia-form__controls button",

"price": "[data-testid='customer-price'] span", # CSS selector for BestBuy price

"homePage": ".v-p-right-xxs.line-clamp"

},

"opentable": {

"url": "https://www.opentable.com/",

"unavailableUrl": "https://www.opentable.com/r/bar-spero-washington/",

"availableUrl": "https://www.opentable.com/r/the-rux-nashville",

"availableUrl2": "https://www.opentable.com/r/hals-the-steakhouse-nashville",

"date_field": "#restProfileSideBarDtpDayPicker-label",

"time_field": "#restProfileSideBarDtpTimePickerDtpPicker",

"select_date": "#restProfileSideBarDtpDayPicker-wrapper", # button[aria-label*="{ }]"

"select_time": "h3[data-test='select-time-header']",

"no_availability": "div._8ye6OVzeOuU- span",

"find_table_button": ".find-table-button", # Example selector for the Find Table button

"availability_result": ".availability-result", # Example selector for availability results

    "show_next_available_button": "button[data-test='multi-day-availability-button']", # Show
next available button

    "available_dates": "ul[data-test='time-slots'] > li", # Available dates and times

}

}

```

@staticmethod

```

def get_selectors_for_url(url):

    for keyword, selectors in Selectors.SELECTORS.items():

        if keyword in url.lower():

            return selectors

    return None # Return None if no matching selectors are found

```

--- exportUtils.py ---

```
import os
```

```
import pandas as pd
```

```
from datetime import datetime
```

```
class ExportUtils:
```

```
    @staticmethod
```

```
    def log_to_excel(command, url, result, entered_date=None, entered_time=None):
```

```
        # Determine the file path for the Excel file
```

```
        file_name = f"{command}.xlsx"
```

```
        file_path = os.path.join("ExportedFiles", "excelFiles", file_name)
```

```
        # Ensure directory exists
```

```
        os.makedirs(os.path.dirname(file_path), exist_ok=True)
```

```
        # Timestamp for current run
```

```
        timestamp = datetime.now().strftime('%Y-%m-%d %H:%M:%S')
```

```
        # If date/time not entered, use current timestamp
```

```
        entered_date = entered_date or datetime.now().strftime('%Y-%m-%d')
```

```
entered_time = entered_time or datetime.now().strftime('%H:%M:%S')
```

```
# Check if the file exists and create the structure if it doesn't
```

```
if not os.path.exists(file_path):
```

```
    df = pd.DataFrame(columns=["Timestamp", "Command", "URL", "Result", "Entered Date",  
"Entered Time"])
```

```
    df.to_excel(file_path, index=False)
```

```
# Load existing data from the Excel file
```

```
df = pd.read_excel(file_path)
```

```
# Append the new row
```

```
new_row = {  
    "Timestamp": timestamp,  
    "Command": command,  
    "URL": url,  
    "Result": result,  
    "Entered Date": entered_date,  
    "Entered Time": entered_time  
}
```

```
# Add the new row to the existing data and save it back to Excel
```

```
df = pd.concat([df, pd.DataFrame([new_row])], ignore_index=True)
```

```
df.to_excel(file_path, index=False)
```

```
return f"Data saved to Excel file at {file_path}."
```

@staticmethod

```
def export_to_html(command, url, result, entered_date=None, entered_time=None):
```

```
    """Export data to HTML format with the same structure as Excel."""
```

```
    # Define file path for HTML
```

```
    file_name = f"{command}.html"
```

```
    file_path = os.path.join("ExportedFiles", "htmlFiles", file_name)
```

```
    # Ensure directory exists
```

```
    os.makedirs(os.path.dirname(file_path), exist_ok=True)
```

```
    # Timestamp for current run
```

```
    timestamp = datetime.now().strftime('%Y-%m-%d %H:%M:%S')
```

```
    # If date/time not entered, use current timestamp
```

```
    entered_date = entered_date or datetime.now().strftime('%Y-%m-%d')
```

```
    entered_time = entered_time or datetime.now().strftime('%H:%M:%S')
```

```
    # Data row to insert
```

```
    new_row = {
```

```
        "Timestamp": timestamp,
```

```
        "Command": command,
```

```
        "URL": url,
```

```
        "Result": result,
```

```
        "Entered Date": entered_date,
```

```
        "Entered Time": entered_time
```

```
    }
```

```

# Check if the HTML file exists and append rows

if os.path.exists(file_path):

    # Open the file and append rows

    with open(file_path, "r+", encoding="utf-8") as file:

        content = file.read()

        # Look for the closing </table> tag and append new rows before it

        if "</table>" in content:

            new_row_html =

f"<tr><td>{new_row['Timestamp']}</td><td>{new_row['Command']}</td><td>{new_row['URL']}</td><
td>{new_row['Result']}</td><td>{new_row['Entered
Date']}</td><td>{new_row['Entered
Time']}</td></tr>\n"

            content = content.replace("</table>", new_row_html + "</table>")

            file.seek(0) # Move pointer to the start

            file.write(content)

            file.truncate() # Truncate any remaining content

            file.flush() # Flush the buffer to ensure it's written

else:

    # If the file doesn't exist, create a new one with table headers

    with open(file_path, "w", encoding="utf-8") as file:

        html_content = "<html><head><title>Command Data</title></head><body>"

        html_content += f"<h1>Results for {command}</h1><table border='1'>"

            html_content +=

f"<tr><th>Timestamp</th><th>Command</th><th>URL</th><th>Result</th><th>Entered
Date</th><th>Entered Time</th></tr>"

            html_content +=

f"<tr><td>{new_row['Timestamp']}</td><td>{new_row['Command']}</td><td>{new_row['URL']}</td><

```

```

td>{new_row['Result']}</td><td>{new_row['Entered
Date']}</td><td>{new_row['Entered
Time']}</td></tr>\n"

html_content += "</table></body></html>"

file.write(html_content)

file.flush() # Ensure content is written to disk

return f"HTML file saved and updated at {file_path}."

```

--- MyBot.py ---

```

import discord

from discord.ext import commands

from boundary.BrowserBoundary import BrowserBoundary
from boundary.NavigationBoundary import NavigationBoundary
from boundary.HelpBoundary import HelpBoundary
from boundary.StopBoundary import StopBoundary
from boundary.LoginBoundary import LoginBoundary
from boundary.AccountBoundary import AccountBoundary
from boundary.AvailabilityBoundary import AvailabilityBoundary
from boundary.PriceBoundary import PriceBoundary
from DataObjects.global_vars import GlobalState # Import the global variable

# Bot initialization

intents = discord.Intents.default()

intents.message_content = True # Enable reading message content

class MyBot(commands.Bot):

```

```

def __init__(self, *args, **kwargs):
    super().__init__(*args, **kwargs)

async def on_message(self, message):
    if message.author == self.user: # Prevent the bot from replying to its own messages
        return

    print(f"Message received: {message.content}")
    GlobalState.user_message = message.content

    if GlobalState.user_message.lower() in ["hi", "hey", "hello"]:
        await message.channel.send("Hi, how can I help you?")

    elif GlobalState.user_message.startswith("!"):
        print("User message: ", GlobalState.user_message)

    else:
        await message.channel.send("I'm sorry, I didn't understand that. Type !project_help to see
the list of commands.")

    await self.process_commands(message)
    GlobalState.reset_user_message() # Reset the global user_message variable
    #print("User_message reset to empty string")

async def setup_hook(self):
    await self.add_cog(BrowserBoundary()) # Add your boundary objects

```



```

await self.add_cog(NavigationBoundary())

await self.add_cog(HelpBoundary())

await self.add_cog(StopBoundary())

await self.add_cog(LoginBoundary())

await self.add_cog(AccountBoundary())

await self.add_cog(AvailabilityBoundary())

await self.add_cog(PriceBoundary())


async def on_ready(self):

    print(f"Logged in as {self.user}")

    channel = discord.utils.get(self.get_all_channels(), name="general") # Adjust the channel
name if needed

    if channel:

        await channel.send("Hi, I'm online! Type '!project_help' to see what I can do.")


async def on_command_error(self, ctx, error):

    if isinstance(error, commands.CommandNotFound):

        print("Command not recognized:")

        print(error)

        await ctx.channel.send("I'm sorry, I didn't understand that. Type !project_help to see the list
of commands.")


# Initialize the bot instance

bot = MyBot(command_prefix="!", intents=intents, case_insensitive=True)


def start_bot(token):

    """Run the bot with the provided token."""

```

bot.run(token)