

```
--- AccountBoundary.py ---
```

```
from discord.ext import commands
```

```
from control.AccountControl import AccountControl
```

```
class AccountBoundary(commands.Cog):
```

```
    def __init__(self):
```

```
        self.control = AccountControl() # Initialize control object
```

```
    @commands.command(name="fetch_all_accounts")
```

```
    async def fetch_all_accounts(self, ctx):
```

```
        await ctx.send("Command recognized, passing data to control.")
```

```
        # Pass the command to the control object
```

```
        commandToPass = "fetch_all_accounts"
```

```
        result = self.control.receive_command(commandToPass)
```

```
        # Send the result (prepared by control) back to the user
```

```
        await ctx.send(result)
```

```
    @commands.command(name="fetch_account_by_website")
```

```
    async def fetch_account_by_website(self, ctx, website: str):
```

```
        await ctx.send(f"Command recognized, passing data to control for website {website}.")
```

```
        # Pass the command and website to control
```

```
        commandToPass = "fetch_account_by_website"
```

```
        result = self.control.receive_command(commandToPass, website)
```

```
# Send the result (prepared by control) back to the user
```

```
await ctx.send(result)
```

```
@commands.command(name="add_account")
```

```
async def add_account(self, ctx, username: str, password: str, website: str):
```

```
    await ctx.send("Command recognized, passing data to control.")
```

```
# Pass the command and account details to control
```

```
commandToPass = "add_account"
```

```
result = self.control.receive_command(commandToPass, username, password, website)
```

```
# Send the result (prepared by control) back to the user
```

```
await ctx.send(result)
```

```
@commands.command(name="delete_account")
```

```
async def delete_account(self, ctx, account_id: int):
```

```
    await ctx.send(f"Command recognized, passing data to control to delete account with ID  
{account_id}.")
```

```
# Pass the command and account ID to control
```

```
commandToPass = "delete_account"
```

```
result = self.control.receive_command(commandToPass, account_id)
```

```
# Send the result (prepared by control) back to the user
```

```
await ctx.send(result)
```

```
--- AvailabilityBoundary.py ---
```

```
from discord.ext import commands
```

```
from control.AvailabilityControl import AvailabilityControl
```

```
class AvailabilityBoundary(commands.Cog):
```

```
    def __init__(self):
```

```
        # Initialize control objects directly
```

```
        self.availability_control = AvailabilityControl()
```

```
    @commands.command(name="check_availability")
```

```
    async def check_availability(self, ctx, url: str = None, date_str=None):
```

```
        await ctx.send("Command recognized, passing data to control.")
```

```
        # Pass the command and data to the control layer using receive_command
```

```
        command_to_pass = "check_availability"
```

```
        result = await self.availability_control.receive_command(command_to_pass, url, date_str)
```

```
        # Send the result back to the user
```

```
        await ctx.send(result)
```

```
    @commands.command(name="start_monitoring_availability")
```

```
    async def start_monitoring_availability(self, ctx, url: str = None, date_str=None, frequency: int = 15):
```

```

await ctx.send("Command recognized, passing data to control.")

# Pass the command and data to the control layer using receive_command
command_to_pass = "start_monitoring_availability"

response = await self.availability_control.receive_command(command_to_pass, url, date_str,
frequency)

# Send the result back to the user
await ctx.send(response)

@commands.command(name='stop_monitoring_availability')
async def stop_monitoring_availability(self, ctx):
    """Command to stop monitoring the price."""
    await ctx.send("Command recognized, passing data to control.")
    # Pass the command to the control layer
    command_to_pass = "stop_monitoring_availability"
    response = await self.availability_control.receive_command(command_to_pass)
    await ctx.send(response)

--- BrowserBoundary.py ---

from discord.ext import commands
from control.BrowserControl import BrowserControl

class BrowserBoundary(commands.Cog):
    def __init__(self):

```

```

self.browser_control = BrowserControl() # Initialize the control object

@commands.command(name='launch_browser')
async def launch_browser(self, ctx):

    # Inform the user that the command is recognized

    await ctx.send("Command recognized, passing the data to control object.")

    commandToPass = "launch_browser"

    result = self.browser_control.receive_command(commandToPass) # Pass data to the control
object

    await ctx.send(result) # Send the result back to the user

@commands.command(name="close_browser")
async def stop_bot(self, ctx):

    # Inform the user that the command is recognized

    await ctx.send("Command recognized, passing the data to control object.")

    commandToPass = "close_browser"

    result = self.browser_control.receive_command(commandToPass) # Pass data to the control
object

    await ctx.send(result) # Send the result back to the user

```

--- HelpBoundary.py ---

```

from discord.ext import commands

```

```

from control.HelpControl import HelpControl

```

```
class HelpBoundary(commands.Cog):

    def __init__(self):

        self.control = HelpControl() # Initialize control object


    @commands.command(name="project_help")

    async def project_help(self, ctx):

        await ctx.send("Command recognized, passing data to control.")


        # Pass the command to the control object

        commandToPass = "project_help"

        response = self.control.receive_command(commandToPass)


        # Send the response back to the user

        await ctx.send(response)
```

--- LoginBoundary.py ---

```
from discord.ext import commands

from control.LoginControl import LoginControl


class LoginBoundary(commands.Cog):

    def __init__(self):

        self.login_control = LoginControl()


    @commands.command(name='login')

    async def login(self, ctx, site: str):

        await ctx.send("Command recognized, passing data to control.")
```

```
# Pass the command and site to control
```

```
commandToPass = "login"
```

```
result = await self.login_control.receive_command(commandToPass, site)
```

```
# Send the result back to the user
```

```
await ctx.send(result)
```

```
--- NavigationBoundary.py ---
```

```
from discord.ext import commands
```

```
from control.NavigationControl import NavigationControl
```

```
class NavigationBoundary(commands.Cog):
```

```
    def __init__(self):
```

```
        self.navigation_control = NavigationControl()                # Initialize the control object
```

```
    @commands.command(name='navigate_to_website')
```

```
    async def navigate_to_website(self, ctx, url: str=None):
```

```
        await ctx.send("Command recognized, passing the data to control object.")    # Inform the  
user that the command is recognized
```

```
        commandToPass = "navigate_to_website"
```

```
        result = self.navigation_control.receive_command(commandToPass, url)        # Pass the  
command and URL to the control object
```

```
        await ctx.send(result)                # Send the result back to the user
```

--- PriceBoundary.py ---

from discord.ext import commands

from control.PriceControl import PriceControl

class PriceBoundary(commands.Cog):

def __init__(self):

Initialize control objects directly

self.price_control = PriceControl()

@commands.command(name='get_price')

async def get_price(self, ctx, url: str=None):

"""Command to get the price from the given URL."""

await ctx.send("Command recognized, passing data to control.")

Pass the command to the control layer

command_to_pass = "get_price"

result = await self.price_control.receive_command(command_to_pass, url)

await ctx.send(result)

@commands.command(name='start_monitoring_price')

async def start_monitoring_price(self, ctx, url: str = None, frequency: int = 20):

"""Command to monitor price at given frequency."""

await ctx.send(f"Command recognized, starting price monitoring at {url} every {frequency}

second(s).")

Pass the command and data to the control layer


```
command_to_pass = "start_monitoring_price"

response = await self.price_control.receive_command(command_to_pass, url, frequency)

await ctx.send(response)
```

```
@commands.command(name='stop_monitoring_price')

async def stop_monitoring_price(self, ctx):

    """Command to stop monitoring the price."""

    await ctx.send("Command recognized, passing data to control.")

    # Pass the command to the control layer

    command_to_pass = "stop_monitoring_price"

    response = await self.price_control.receive_command(command_to_pass)

    await ctx.send(response)
```

--- StopBoundary.py ---

```
from discord.ext import commands

from control.StopControl import StopControl

class StopBoundary(commands.Cog):

    def __init__(self):

        self.control = StopControl() # Initialize control object

    @commands.command(name="stop_bot")

    async def stop_bot(self, ctx):

        await ctx.send("Command recognized, passing data to control.")
```

```
# Pass the command to the control object

commandToPass = "stop_bot"

result = await self.control.receive_command(commandToPass, ctx)

print(result) # Send the result back to the Terminal. since the bot is shut down, it won't be able
to send the message back to the user.
```

--- __init__.py ---

#empty init file