

```
--- 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
from DataObjects.global_vars import GlobalState

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):

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


    result = self.browser_control.receive_command(GlobalState.user_message)    # Pass the
updated user_message 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):

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


    result = self.browser_control.receive_command(GlobalState.user_message)

    await ctx.send(result)

```

--- 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
```