Facebook
Android
Automation

By: Jason Melnik

https://www.linkedin.com/in/jasonmelnik/

melnikjason@gmail.com

[Java SDK](#)	[Android Studio](#)	[Node.js](#)
[Appium](#)	[Appium Inspector](#)	[Visual Studio Code](#)

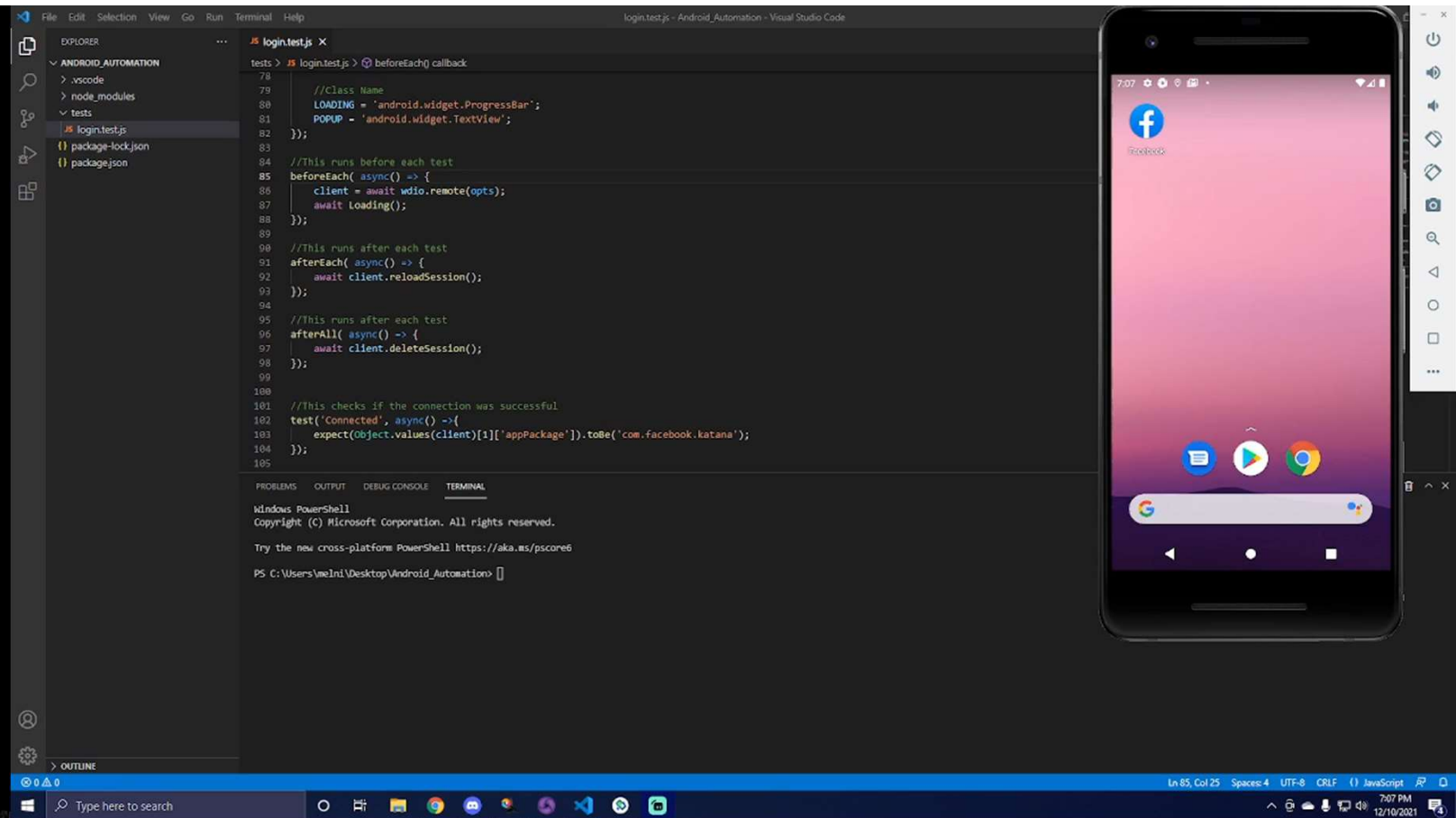**Tests:**

Login

Post

User Interface

Friend Request

Login Test

Connection

Successful Login

Incorrect Password

No Account Found

```
          //Class Name
          LOADING = 'android.widget.ProgressBar';
          POPUP = 'android.widget.TextView';
});

//This runs before each test
beforeEach( async() => {
          client = await wdio.remote(opts);
          await Loading();
});

//This runs after each test
afterEach( async() => {
          await client.reloadSession();
});

//This runs after each test
afterAll( async() => {
          await client.deleteSession();
});


//This checks if the connection was successful
test('Connected', async() ->{
          expect(Object.values(client)[1]['appPackage']).toBe('com.facebook.katana');
});
```
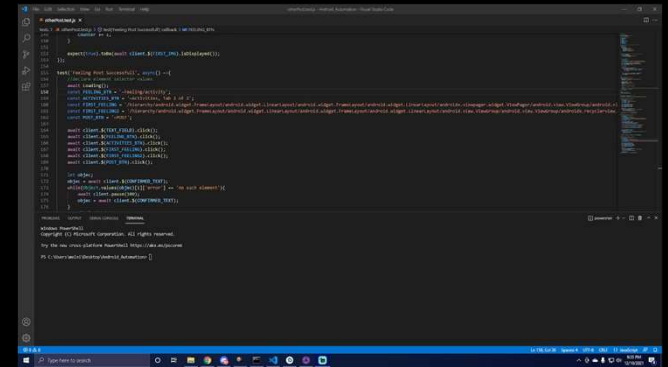
Login Test

Post Test

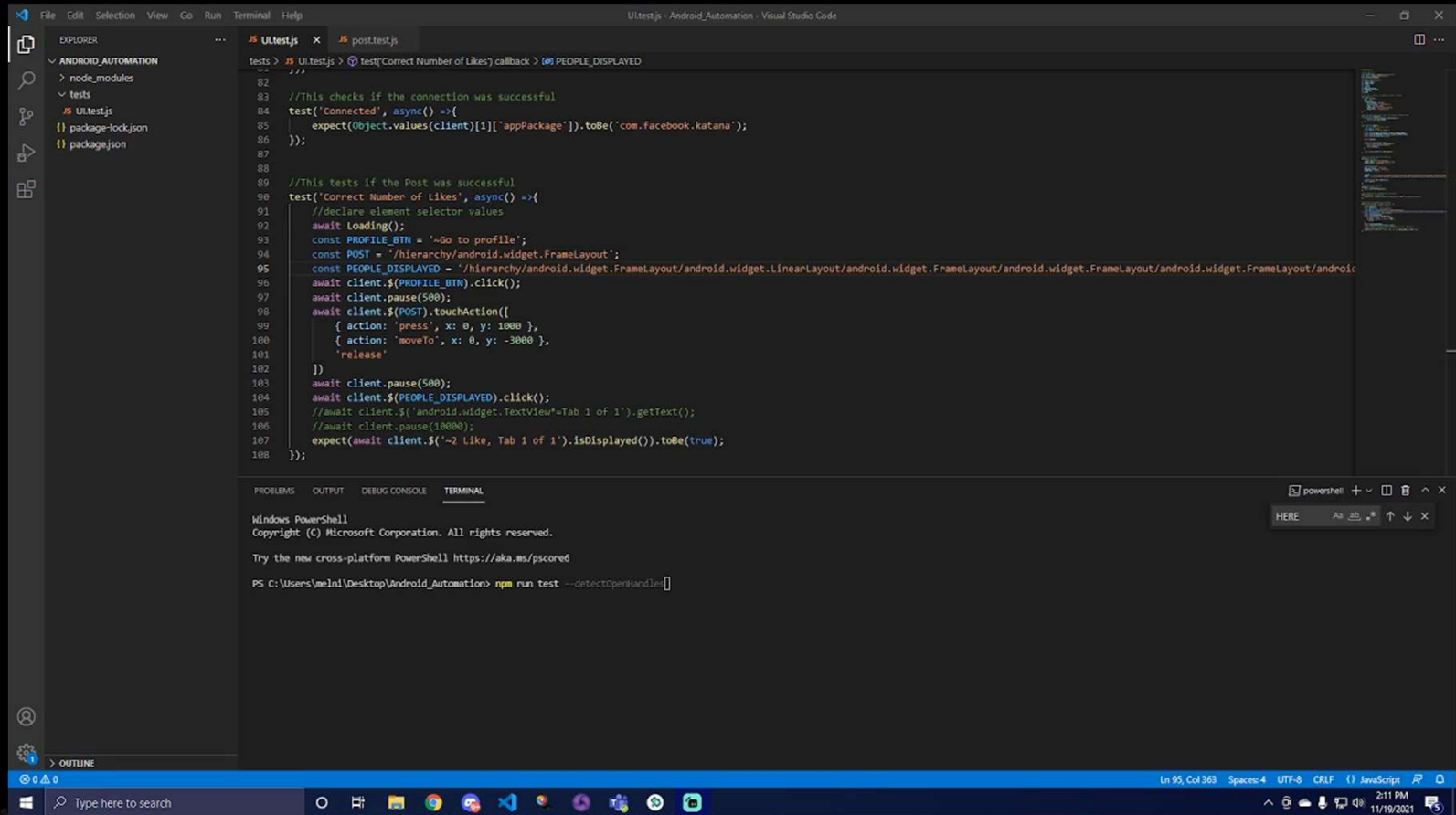| Successful Post | Unsuccessful Post | Successful Tag Post | Successful Image Post | Successful Feeling Post |

Text Post Test

Other Post Test
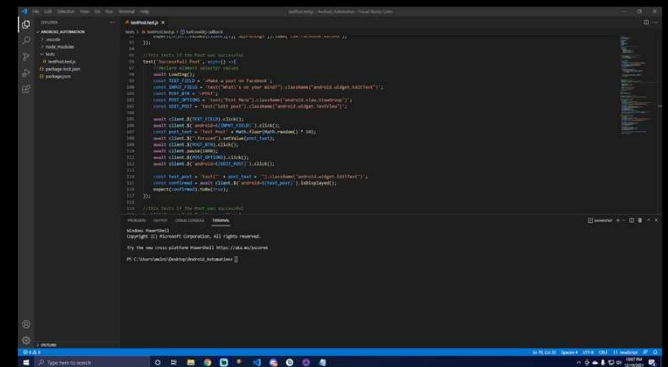
Like Button

Correct Number of Likes

User Interface Test

Friend Request Test

Request

Receiving Request

Accept Request

```javascript
138    CORRECT_EMAIL = CORRECT_EMAIL2;
139    CORRECT_PASS = CORRECT_PASS2;
140    await client.reloadSession();
141    await LogIn();
142
143    if(await client.$('~Search').isDisplayed()){
144        await client.$('~Search').click();
145    }
146    else if(await client.$('~Search Facebook').isDisplayed()){
147        await client.$('~Search Facebook').click();
148    }
149    await client.$(`android-${SEARCH_BAR}`).click();
150    //name1 = name1.substr(0, name1.length-5);
151    try{
152        await client.keys(name1);
153    }
154    catch(error){
155        let temps = true;
156    }
157    //await client.$(":focused").setValue(name1);
158    if (await client.$(FRIEND_SEARCH).isDisplayed()){
159        await client.$(FRIEND_SEARCH).click();
160    }
161    else{
162        await client.pressKeyCode(66);
163        await client.$(USER_BTN).click();
```

Request Test

Challenges

Getting started and setting up the project.

Reading through pages of documentation.

Facebook's API and element selection being hard to work with.

Understanding how Jest, Webdriverio, Javascript, ADB, and Appium go together.

Learnings

How to go around limitation's that Facebook or automation in general have in place.

Learning JavaScript and the other resources to do this project.

Understanding how app developers develop their app's and that AccessibilityId's are important.

Learning app automation and the general concept so I can automate other apps.

Tutorial and Code Repository

https://github.com/Zidiam/Facebook-App-Automation

Resources

https://appium.io

https://jestjs.io/

https://webdriver.io/