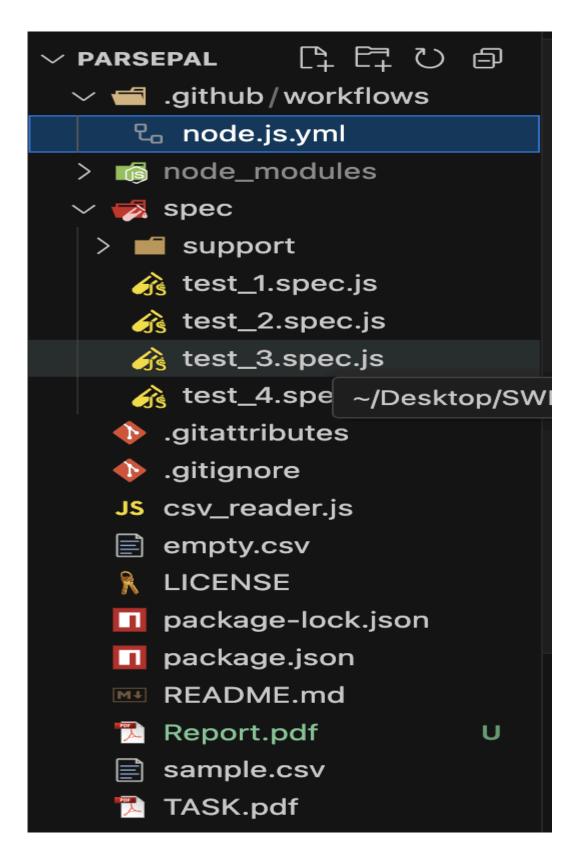
Name: Kelvin Ihezue Net ID: ki120

PROGRAM REPORT

File organization



When I run npx jasmine, it displays the internal representation of the spreadsheet as it is processed against the different test cases I created:

```
kelony@Kelvins-MacBook-Pro HW1 % npx jasmine
Randomized with seed 62654
Started
Test case 3 — Empty Cells and Trailing Commas
name
       | age | gym
                LA Fitness
Hauson
         33
James
                Crunch Fitness
John
Test case 4 - Special Characters
        | comment
         "Hello @world! #hashtag"
Kelvin
         "Symbols: $%^&*()_+=!"
"Quote: \"Hello\""
Anna
Bob
Test case 2 - Jagged Table
name
         age
Kelvin
         24
Amaka
Devine
         20
                New Jersey
         18
                New York
4 specs, 0 failures
Finished in 0.01 seconds
Randomized with seed 62654 (jasmine --random=true --seed=62654)
```

Alternatively, I can run npm test to get the same output, since I added a package. json file with Jasmine defined under the test script.

```
🔲 package.json > ...
         "name": "hw1",
         "version": "1.0.0",
         "main": "csv_reader.js",
         Debug
         "scripts": {
          "test": "jasmine"
         },
         "keywords": [],
         "author": "",
 10
         "license": "ISC",
 11
         "description": ""
 12
 13
 14
```

```
kelony@Kelvins-MacBook-Pro HW1 % npm test
> hw1@1.0.0 test
> iasmine
Randomized with seed 26298
Started
 Test case 4 - Special Characters
name
         comment
         "Hello @world! #hashtag"
Kelvin
         "Symbols: $%^&*()_+=!"
Anna
         "Quote: \"Hello\""
Bob
 Test case 3 — Empty Cells and Trailing Commas
         age
               gym
name
Hauson
               LA Fitness
James
         33
               Crunch Fitness
John
 Test case 2 - Jagged Table
name
         age
Kelvin
         24
Amaka
               New Jersey
Devine
         20
               New York
         18
4 specs, 0 failures
Finished in 0.01 seconds
Randomized with seed 26298 (jasmine --random=true --seed=26298)
```

Prompt implementation that allows the user to specify the file path:

specified on the command line when the program is run. Then program a prompt to allow the user to specify the file path and display the file from the same program. The solution should include extensive Jasmine test cases, particularly for edge cases (described in Section 1.1.3). Example tests include, but are not limited to, checking for erroneous file format; "unusual" spreadsheets, such as jagged tables with uneven lengths

Code implementation on csv_reader.js

```
if (require.main === module) {
// Get the file path from command-line arguments
// (eg. node csv_reader.js sample.csv)
 const file_path_user_input = process.argv[2];
 // If file path is provided...
 if (file_path_user_input) {
   try {
    read_csv_print_plain_text(file_path_user_input); // Call the mair
   } catch (err) {
     console.error(err.message); // Return Error 1
 } else {
   // Prompt the user for input if no file path is provided
   const rl = readline.createInterface({
     input: process.stdin,
     output: process.stdout
   });
   // If the second argument isn't provided, ask User to provide it
    rl.question("Enter the path to the CSV file: ", (userInput) => {
     try {
        read_csv_print_plain_text(userInput.trim());
     } catch (err) {
       console.error(err.message); // Throw Error 1
     } finally {
        rl.close(); // Close the prompt
    });
```

Which leads to my final implementation:

I adopted an edge case handling in my main program (csv_reader.js) that prompts the user to provide a specific file path. The implementation includes:

- Checking if the file exists or is empty → if it's empty, an appropriate error message is thrown.
- Reading and displaying the full contents of the CSV file → to verify correct and expected output.

kelony@Kelvins-MacBook-Pro HW1 % node csv_reader.js Enter the path to the CSV file: sample.csv

Name | Age | City

Alice | 30 | New York

Bob | 25 | Los Angeles

Charlie | 28 | Chicago

Diana | 32 | Houston

kelony@Kelvins-MacBook-Pro HW1 % node csv_reader.js Enter the path to the CSV file: empty.csv

Error Message: File is empty