First test cases

SWE 6673

Software Testing and Verification

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# Image2Terminal

## Prerequisites

* Must install NodeJS: [**https://nodejs.org/en/download**](https://nodejs.org/en/download)
* Must install dependencies, run the following command from the repository’s folder:
  + **npm install**

## Instructions

To run the CLI, run the following command in the repository’s folder:

* **npx tsx src/index.ts [OPTIONS]**

To get the help menu, run the following command in the repository’s folder:

* **npx tsx src/index.ts -h**

To run tests , run the following command in the repository’s folder:

* **npm run test**

## Features

When the CLI works as expected (for the first sprint):

* It should be able to read BMP images and output them to the terminal.
* It should be able to rotate them by 90, 180, and 270 degrees.
* It should be able to output the image to the terminal in duotone, grayscale, or different colors if the terminal supports it.
* It should be able to break the image in different blocks and zoom in one of them

## First Sprint: Core Functionality

The first sprint will be used to create core functionality which consists of:

* Reading image files (of supported file types).
* Rendering image to the CLI (Command Line Interface).

In this sprint, we will work on the following tasks:

* Task: Create command-line menu.
* Task: Make command-line menu robust and user-friendly in case of incompatible option selection.
* Task: Detect file access issues and return proper error messages.
* Task: Detect unsupported file types and return proper error messages.
* Task: Detect unsupported file size and return proper error messages.
* Task: Detect aspect-ratio and scale image.
* Task: Implement resolution selection menu option and help instructions.
* Task: Implement resolution selection feature.
* Task: Implement default grayscale color palette transformation.
* Task: Implement duotone color palette transformation.