Code Reading and Review – Summer 2023 - Final Project
Chitradevi Maruthavanan
GitHub repo: https://github.com/harshita-jaiswal/crr-project/

Project Title: Click and Split

Project Members:
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Goals:
To improve the codebase by removing code redundancy and introducing functional abstraction wherever possible. This involves employing techniques and principles that reduce complexity, increase code reuse, and improve code readability and maintainability. Functional abstraction is a powerful tool that can be used to achieve these goals by breaking down complex problems into smaller functions with well-defined inputs and outputs. Finally, to optimize the code to achieve better maintainability and extensibility.

My Contributions:
Created a branch in the github repo - integration/feature-clickandsplitbackend. I made all below updates to this branch.

Backend section:

- emailcontroller.js
  - Optimized the variable names.
  - Created a separate sendEmail function to encapsulate the email-sending logic. This makes the main function (exports.sendEmails) cleaner and easier to understand. The callback pattern is used to handle the result of the email sending operation. This separation of concerns and improved naming should enhance the clarity and maintainability of the code.
- splitcontroller.js
  - Improved the variable naming convention using descriptive variable names for clarity and added functional abstraction.
  - Utilized an object (sharedItems) to organize data per person for easier access.
  - Eliminated unnecessary variables and loops.
  - Used parseFloat for accurate numerical calculations.
  - Used Object.values to transform the object into an array of values.
- emailController.test.js
  - Improved the naming of variables.
  - Added comments to explain the purpose of before and after hooks. Applied consistent formatting and indentation for better readability.
  - image controller.js
  - Optimized the variable names.
  - Created separate function ‘processExtractedDate’ for better abstraction. This helps the readability and maintainability of the code.
  - Changing a variable declared with let to const is typically done for the immutability and block scoping.

Frontend section:

- selection.js - Fixed ES-Lint errors. Removed few unused variables.