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EECS 348

Assignment 3

18 February, 2025

Requirements Artifact (Informal - User Story)

1. The user can upload a file containing multiple lines of text.
2. The user can input a regex expression in the form /… /.
3. The user sees if there are no matches found on a line if the regex expression doesn’t match any text.
4. The user can see what lines contain matches to the regex pattern entered.
5. The user can see what matches are found on each line in the given file.
6. If the file can’t be opened or if the regex pattern is invalid, the user can see an error explaining the first error that occurs.

UML Design Artifact (Class Diagram)

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| --- |
| regexReader() |
| Attributes:   1. self.filename: String 2. self.pattern: String |
| Methods/Functions:   1. get\_filename 2. read\_file 3. get\_pattern 4. search\_pattern 5. run |