

Document

-directory: string
-text: string
-sentences: vector <string>

+Populate(): void
+fillInText(): void
+adjustSentences(): void
+set_directory(d: string): void
+get_directory(): string
+set_txt(t: string): void
+get_txt(): string
+get_sentences(): vector<string>
+manip_sentences(n: int): string
+check_name(name: string): bool
+addToDir(num: double, n: string): void

File_compilation

-docs: vector<Document>

+file_compilation(): void
+HammingDistance(text: string, pattern: string): bool
+computeLPS(pattern: string): vector<int>
+kmpSearch(pattern: string, text: string): void
+rabinKarp(pat: string, txt: string): bool
+badCharHeuristic(str: string, size: int, badchar[NO_OF_CHARS]: int): void
+boyerMoore(pat: string, txt: string): bool
+bruteForceStringMatch(pattern: string, text: string): bool
+initialize_docs(): void
+get_docs(): vector<Document>

Program_run

-c: file_compilation
-doc: Document
-KMP_result: vector<plagiarized_sentence>
-Rabin_result: vector<plagiarized_sentence>
-Hamming_result: vector<plagiarized_sentence>
-Booyer_result: vector<plagiarized_sentence>
-BrutForce_result: vector<plagiarized_sentence>
-percentage_KMP: vector<string>
-percentage_hamming: vector<string>
-percentage_Booyer: vector<string>
-percentage_rabin: vector<string>
-percentage_brutForce: vector<string>
-Rabin_value: int
-Hamming_value: int
-KMP_value: int
-Booyer_value: int
-BrutForce_value: int

+check_match_kmp(): void
+check_match_rabin(): void
+check_match_Booyer(): void
+check_match_hamming(): void
+check_match_brutForce(): void
+get_doc(file_name: string): void
+manip_Hamming_result(i: int): plagiarized_sentence
+manip_Hamming(): vector<plagiarized_sentence>
+manip_Rabin_result(i: int): plagiarized_sentence
+manip_Rabin(): vector<plagiarized_sentence>
+manip_KMP_result(i: int): plagiarized_sentence
+manip_KMP(): vector<plagiarized_sentence>
+manip_Booyer_result(i: int): plagiarized_sentence
+manip_Booyer(): vector<plagiarized_sentence>
+manip_BrutForce_result(i: int): plagiarized_sentence
+manip_BrutForce(): vector<plagiarized_sentence>
+get_Rabin_value(): int
+get_Hamming_value(): int
+get_KMP_value(): int
+get_Booyer_value(): int
+get_BrutForce_value(): int

structPlagerizedSentence

+content: string
+doc_dir: string