SimplyClip 3.0

Functions Documentation

Description:
SimplyClip3.0 is a google chrome extension which enables singular shared clipboard for research students and power users where they can copy the text which they found to be useful for research and the extension will store and document those copied items for future research work.

Project Structure:
Our project mainly constitutes of the following two parts:
1. SimplyClip Chrome Extension
2. SimplyClip Backend

SimplyClip Chrome Extension consists of the below :-
SimplyClip/
├── content.js
├── popup.html
├── popup.css
├── popup.js
├── seleniumTest.js

Below are the JavaScript functions :-
Function 1:- callSummarizer(text) :- This function calls the backend Django rest service using sync ajax call to get the summarized text.
Input :- Accepts string as input (Selected text for summarizer)
Output :- Returns the success message with the output string.

Function 2:- summaryEventListener(buttonClick, text) :- This function sets the summarized text as a chrome session variable to be used while creating Doc/Csv file.
This function calls the above defined callSummarizer() function
Input :- Accepts string as input (Selected copied Text)
Output :- void

Function 3:- mergeEventListener(buttonClick, list) :- This function merges the contents which you want to be arranged together as one in the Document file.
Input :- Accepts the list of items as input (Selected copied items).
Output :- provides the output as chrome variable set with the merged content.

Function 4:- sortContentEventListener(buttonClick, list) This function sorts the items using the listeners on the up and down arrow keys to arrange it as per the user's choice.
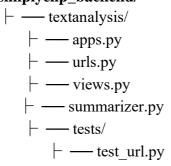Input :- Accepts the list of items to be sorted (all copied items)
Output :- provides the output on the UI with the sorted items list.

Function 5:- darkModeEventListener(buttonClick, currentSession) This function toggles the User Interface based on the switch button i.e., if it is dark visual, it will be switched off to white, or vice-versa.
Input :- Accepts the input as the current UI session
Output :- provides the output on the UI with the view mode changed (dark or white mode)

SimplyClip Backend is a Django rest project which consists of below structure :-
simplyclip_backend/
├ —— textanalysis/
   ├ —— apps.py
   ├ —— urls.py
   ├ —— views.py
 ├ —— summarizer.py
 ├ —— tests/
   ├ —— test_url.py

Backend Function :-
generateSummary(input text) :-
This function uses pipeline which processes the input text in below stages
It performs some pre-processing steps like converting text into count-vectors
These count-vectors are given as input to train.
Then we train the model in the summarization pipeline and it and then we test the input-text on the trained model to get the summarized text as output.