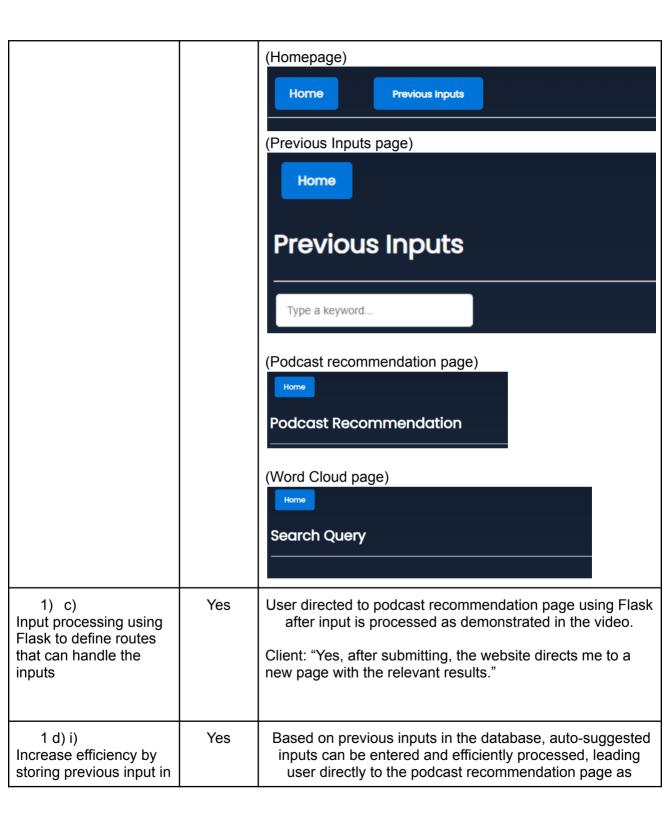
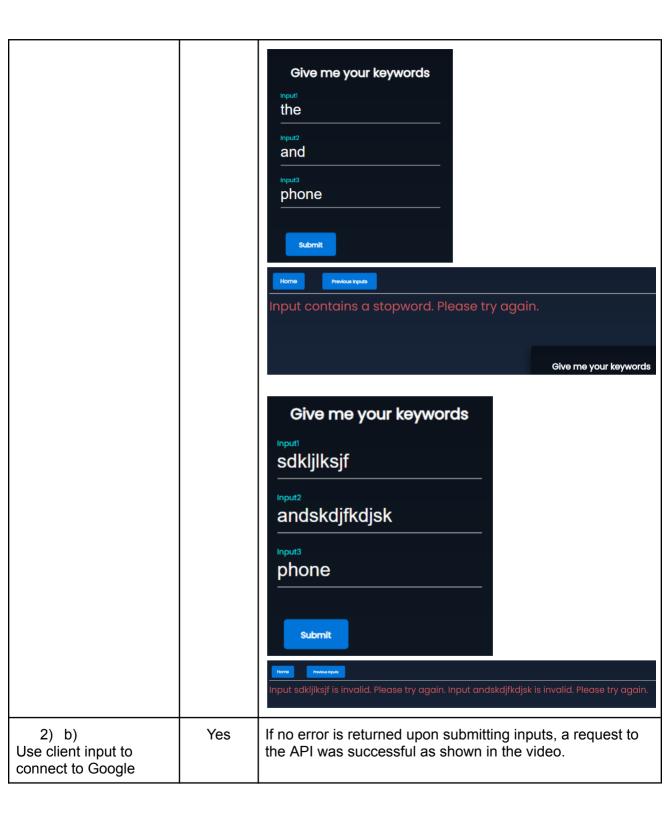
Criterion E: Evaluation

In the final client interaction, we verified the completion of all success criteria. Moreover, I completed the various tests (as outlined in criterion B) and demonstrated the product's functionality in criterion D.

Criterion	Met?	Evidence		
1) a) Minimal client input	Yes	Homepage form with input limited to 3 words demonstrated in the video Client: "Yes, I only have to enter 3 words to receive an output from the system." Test: Homepage form input GUI Give me your keywords Input Input3 Submit		
1) b) Use a simple bootstrap template to create a user-friendly interface where the user can easily navigate to the three input boxes for inputting keywords.	Yes	A uniform template with a clear and intuitive layout is used including a navigation bar with links to other sections of the website. Client: "Yes." Test:		



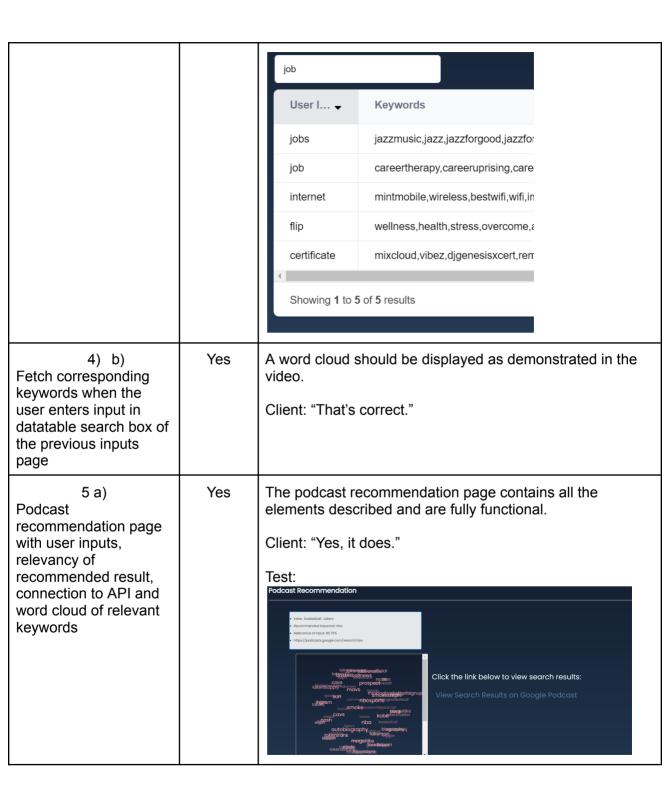
the database as cache		demonstrated in the video.	
		Client: "Yes."	
1) d) ii) Implement auto-suggestions to assist users in inputting meaningful keywords	Yes	Auto-suggestion is demonstrated in the video. Client: "Yes." Test: Give me your keywords Input pho phone telephone Input3	
1) d) iii) Data cleaning techniques include converting plural words to their singular form and removing stopwords, etc.	Yes	Data cleaning techniques are demonstrated in the video for all the extreme cases. Client: "Indeed, it converts plural to singular words and returns errors when a stopword or random letter scrambles are entered." Test:	



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Podcast API		Client: "Yes, this works as expected."		
3) a) i) Create keywords from the description of each podcast related to the user inputs using keyBERT	Yes	Keywords are displayed in the word cloud of the podcast recommendation page. Client: "Yes." Test: Carcennel New Yes." Test: Lakers Laker		
3) b) i) A high confidence score is given for similar inputs and vice versa	Yes	For similar words like "basketball, lebron, hoop", the website returns a high confidence score (>75%) and vice versa (<50%). Client: "Yes." Test: • basketball , lebron , hoop • Recommended Keyword: nba • Relevance of input: 93.82%		

		1		
		 christmas , lens , menu Recommended Keyword: restaurant Relevance of input: 45.64% 		
3) b) ii) Use the Word2Vector model to find a centroid from all of the extracted keywords processed	Yes	All relevant information relating to the centroid is demonstrated in the video. Client: "Indeed, the centroid distance is shown in the terminal. And the recommended keyword is shown on the page."		
3) b) iii) Find the most relevant recommended keyword based on Euler distance to the centroid	Yes	The recommended keyword based on Euler distance to the centroid vector is calculated and given as shown in the video. Client: "Yep." Test: • phone, school, create • Recommended Keyword: networking		
3) c) Feed centroid word back to API to find relevant podcast episodes to be displayed	Yes	The podcast recommendation page would display a link, directing user to the Google Podcast API with the search query for the recommended keyword generated. Client: "Yes." Test: Click the link below to view search results: View Search Results on Google Podcast		





5 b) Database of previous inputs and relevant keywords	Yes	Client: "Y Test: Previous Type a keyword User In \$ phone Al bottle chair carpet nasty pig disease menu		
5) c) Word cloud of keywords when the user enters input in the previous inputs page	Yes	Corresponds to 4) b)		
5) d) A uniform simple bootstrap template across all pages with button that can redirect user back to homepage	Yes	Uniform UI demonstrated in video. Client: "The navigation bar is preserved and the background stays the same, so I would agree."		

Recommendations for Future Development

In the final interaction, my client suggested improving keyword extraction by exploring other advanced NLP models like GPT for better semantic and contextual understanding.

We agreed that scraping podcasts from multiple platforms like spotify, Apple Podcast, etc provides more accurate recommendations and decreases dependency on a singular external platform, increasing reliability.

My client also proposed personalised user accounts, storing preferences and tracking podcast recommendation history. I realised measures like encryption and access limits must be implemented for securing account data.

Additionally, I recommended autonomous updating of the database with new inputs, increasing the probability that they correspond to user inputs, as fetching data from cache is much more efficient than processing new user inputs.

Lastly, I mentioned whether machine learning models can be trained to personalise recommendations based on user preferences.

Word Count: 520