Project Name: Flight Fare Predictor and Travel Guide

Purpose: Help predict flight fares and monitor variations in pricing of airlines.

Scope: Use historic data and machine learning to create a web application which helps user predict possible flight fares.

Team:

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Functional Requirements (Updated)

#	Functional Requirements	Category	Notes	Priority	Owner
1.	System shall allow user to filter the flight searches as they wish	Search/ Retrieval	-	Medium	D
2.	The system shall predict the fares of the flight in backend according to user inputs.	Search/ Retrieval	Using Trained ML Model	High	D
3.	The System shall show the flight fares to the user regardless of account creation.	Admin/ Auth	-	High	D
4.	The system shall allow the user to magnify and	Display	UI	High	D

	zoom out of images of the destination and arrival locations.				
5.	System shall allow User to increase the zoom of the text of information on the webpage.	Display	-	High	D
6.	The system shall allow User to take a screenshot of the screen of a webpage containing text about predicted flight fares and able to share with their friends.	Display	-	High	D
7.	System Shall allow the user to understand how we predict the fare prices.	Help	-	Low	D
8.	System shall provide the health advisory webpages for each country for user convenience.	Display	Adhering to Gov guidelines	Medium	D
9.	The system shall produce the model optimized in backend to display the results in a short amount of time.	System Performance	-	High	D
10.	The system shall provide the contact details on the webpage to gain more information on flight fares.	Help	-	High	D
11.	The system shall display the predicted flight fares for different classes of travel (economy, business, first) and	Reporting	-	High	K

	allow the user to select their preferred class.				
12.	System shall s	Reporting	-	Medium	K
13.	System Shall maintain an internal list of user details.	Admin/ Auth	-	High	K
14.	The system shall display as highlighted text the calculated value for predicted fare.	Content Display	-	High	K
15.	System shall provide contextual help to users.	Help	-	Low	K
16.	The system shall consider the user search results for future reference and improvements	Data Storages	-	High	K
17.	The system software shall pass all predetermined security standards.	Security	-	Medium	K
18.	The background color of the system is black.	Display	Graphical display	Low	K
19.	The system shall contain relevant imagery to elevate user understanding.	Display/ Help	-	Medium	K
20.	The system shall maintain a list of historic data through a backend connection to SQL Server used to power searches, hidden from users.	Data Storages	-	High	K
21.	The system shall contain interactable prompts to accept user input.	Display	-	High	H

22.	The system shall have options to input rating or review the airlines. Also filter rating of historic data to recommend the best airlines from list.	Help	-	Low	A
23.	The system shall have a separate admin login section to input the records.	Auth/ Admin	-	High	A
24.	The system shall render the price of the fare in the relevant currency.	Search/ Retrieval	-	High	A
25.	The system shall show the (alerts) important health alerts and safety protocols such as covid protocols.	Display	-	High	A
26.	The system shall provide the user image of his destination in google maps.	Display	-	Medium	A
27.	The system shall ask the user to enable: know your locations ??to track the real time location when relevant.	Admin/ Auth	-	Medium	A
28.	The system shall show the airlines based in cheapest/ fastest/ best deals.	Display (filter)	-	High	A
29.	The system shall have options to redirect to airlines pages to know about baggage related protocols.	Display (Redirect)	-	High	A

30.	The system shall have options for users to sort by increasing/ decreasing fare prices.	Display (Sort)	-	Medium	A
31.	The system shall support basic troubleshoot functionality in case of minor glitches.	System (Help)	-	Low	A
32.	The system shall allow the user to filter search as per their preferences.	Display	-	Medium	H
33.	The system shall provide appropriate prompt in case of malicious actions.	Display/ Admin	-	Medium	H
34.	The system shall print the relevant output.	Print	-	High	H
35.	The system shall perform fundamental check for user system compatibility and offer relevant error redressal.	Auth	-	High	H
36.	The system shall block objectionable inputs by sing relevant input functionality.	Security/ Auth	-	High	H
37.	The system shall ask the user to receive email notification if required.	Reporting	-	Medium	H
38.	The system shall encrypt and keep relevant search details of the user and store them in the database, then decrypting them during validation process.	Storage/ Security	-	High	H

39.	The system shall Contain a contact us page to provide reliable customer support and resolve concerns.	Help	-	High	H
40.	The system shall provide users with a zoom feature to magnify and zoom out of images of the destination and arrival locations.	Display	Inclusivity	Low	H