TraViz Use Case Scenarios

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USE CASE NAME:	Register		USE CASE TYPE
USE CASE ID:	000		Business Requirements:
PRIORITY:	Medium		
PRIMARY BUSINESS ACTOR:	User		
SHORT DESCRIPTION:	Allows users to register new account	nts.	
PRE-CONDITION:	None		
TRIGGER:	User navigates to register page		
TYPICAL COURSE	Actor Action		System Response
OF EVENTS:	Step 1: User enters desired username and password into the text fields.		
	Step 2 : User clicks the "Register" button.	Step 3: taken.	System checks if the username is
			System checks if the password is a assword (minimum 8 characters).
			Once all checks have been passed, ount is saved to the database of the
ALTERNATE COURSES:	Step 3a.: If the username is already taken, the system returns to the register page and displays the message "That username is taken."		
	Step 3b. : If the password is invalid, the system returns to the register page and displays the message "That password is invalid."		
CONCLUSION:	The user has been logged into the system.		
POST-CONDITION:	Registration is complete.		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	None		

USE CASE NAME:	Login	USE CASE TYPE
USE CASE ID:	001	Business Requirements:
PRIORITY:	Medium	
PRIMARY BUSINESS	User	-
ACTOR:		
SHORT DESCRIPTION:	Allows users to input username and password. If these match an account, the	
	user is logged in.	
PRE-CONDITION:	None	
TRIGGER:	User navigates to login page	
TYPICAL COURSE	Actor Action	System Response
OF EVENTS:	Step 1: User enters username	
	and password into the text fields.	
	Step 2: User clicks the "Login"	Step 3: System checks if the username and
	button.	password combination is valid.

	Step 4: After verifying the username and password, the system navigates to the account page of the user.		
ALTERNATE COURSES:	Step 3a.: If error checking fails (e.g. the login credentials do not exist or are invalid), then the site returns to the login page, displaying "Invalid username"/"Invalid password" depending on the situation.		
CONCLUSION:	The user has been logged into the system.		
POST-CONDITION:	Login is complete.		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	None		

USE CASE NAME:	Add a Trip		USE CASE TYPE
USE CASE ID:	002		Business Requirements:
PRIORITY:	High		
PRIMARY BUSINESS ACTOR:	User		
SHORT DESCRIPTION:	Allows users to input trips that they have previously taken.		
PRE-CONDITION:	User must be logged in		
TRIGGER:	User navigates to visualization page	е	
TYPICAL COURSE	Actor Action		System Response
OF EVENTS:	Step 1 : User clicks the "Add a Trip" button.		
	Step 2 : User starts typing the name of the starting location of the trip.	Step 3: System sends this text to the geocoding API, and in return receives a list of possible locations (including coordinates which are not shown to the user but are saved internally) Step 4: System displays the suggested locations in a dropdown menu, similar to Google search suggestions Step 7: System sends this text to the geocoding API, and in return receives a list of possible locations (including coordinates which are not shown to the user but are saved internally)	
	Step 5 : User selects the appropriate location from the menu		
	Step 6 : User starts typing the name of the destination of the trip.		
	Step 9 : User selects the appropriate location from the menu	locati	8: System displays the suggested ons in a dropdown menu, similar to le search suggestions
	Step 10: User inputs the date of the trip		
	Step 11: User selects the mode of transport (flight, bus, etc.) from a dropdown menu		
	Step 12: User uploads any images of the trip by clicking the "Upload Image" button.		
	Step 13: User clicks the "Submit Trip" button		14: The system checks when the date trip is/was.

	Step 15: If the trip has already occurred, the trip information is saved straight into the user's account as a previous trip.		
ALTERNATE COURSES:	Step 13a. If the file uploaded is not a valid image (.jpg or .png), an error message pops up saying "The image is invalid", and the site remains on the same page.		
	Step 14a. If the date of the trip is in the future, this is a planned trip.		
	Step 14b. The system sends the destination of the trip to the Sygic Travel API, receiving in return a list of 5 possible tourist spots within the destination.		
	Step 14c. If the mode of transportation is "flight", the system sends the origin, destination, and date of the trip to the Travelpayouts API, receiving in return a list of 5 possible flight prices.		
	Step 14d. The trip is saved in the user's account as a planned trip.		
CONCLUSION:	A new trip has been added to the user's account		
POST-CONDITION:	"Add new trip" is complete.		
NOTES:	This use case scenario encompasses multiple bubbles from the diagram: "Input Previous Trip", "Auto-suggest Locations", "Plan Trip", "Provide Tourist Attractions", "Provide Travel Cost".		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	None		

USE CASE NAME:	Visualize Trips		USE CASE TYPE
USE CASE ID:	003		Business Requirements:
PRIORITY:	High		
PRIMARY BUSINESS ACTOR:	User		
SHORT DESCRIPTION:	Visualizes the trips that the user ha	s inputted	d.
PRE-CONDITION:	User must be logged in, and must h	nave inpu	itted at least 1 trip.
TRIGGER:	User navigates to visualization pag	е	
TYPICAL COURSE	Actor Action		System Response
OF EVENTS:		trips cui	The system accesses the list of rrently associated with this session er's saved trips).
		trips cui	The system accesses the list of rrently associated with this session er's saved trips).
		location	For each trip: Based on the starting a coordinates of the trip, the system a dot on the world map indicating the cation.
		destinat system	For each trip: Based on the tion coordinates of the trip, the shows a dot on the world maping the destination.
		arc betv	For each trip: The system draws an ween the origin and destination.
		above v	For each trip: The color of all of the visuals are dependent on the mode sport (yellow for planes, blue for purple for boats).

	Step 7: The user hovers their mouse over the dot or arc of one of the trips.	Step 8: The system displays a popup card for that trip, listing the start and end location, the date, the mode of transport, and any images that the user has uploaded.	
ALTERNATE COURSES:	Step 13a. If the date of the trip is in the future, this is a planned trip.		
	Step 13b. The system sends the destination of the trip to the Sygic Travel API, receiving in return a list of 5 possible tourist spots within the destination.		
	Step 13c. If the mode of transportation is "flight", the system sends the origin, destination, and date of the trip to the Travelpayouts API, receiving in return a list of 5 possible flight prices.		
	Step 13d. The trip is saved in the user's account as a planned trip.		
CONCLUSION:	The travel data is visualized.		
POST-CONDITION:	"Visualize travel map" is complete.		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	None		