# Trip Planner

1.1 Project Idea : Description

This project is a holiday planning application that makes it easier to plan trips in a matter of few minutes.By deciding on a destination a user can retrieve it's weather conditions , latest news , book hotels and flights for the best price, Identify tourist locations,identify stores close to your hotel and finally receive a confirmation in minutes.It offers a complete package of services for all kinds of travellers.

A user can put in his travel destination and also the duration of his stay.As soon as the location is taken it displays the weather conditions in that location along with the latest news to identify any natural hazards or riots .He can continue with the same destination or change his destination based on the above information.On selecting a destination the user can book hotel and flight tickets .He can either choose to book hotel and flight or either one.On choosing the hotel ,he will be provided with a list of stores and tourist locations close by.Once he confirms his destination he can checkout and receive an estimate of his trip.If this amount is within his budget he can go ahead and make payment using payment service or start again by changing hotel or his destination.

1.2 System Design:
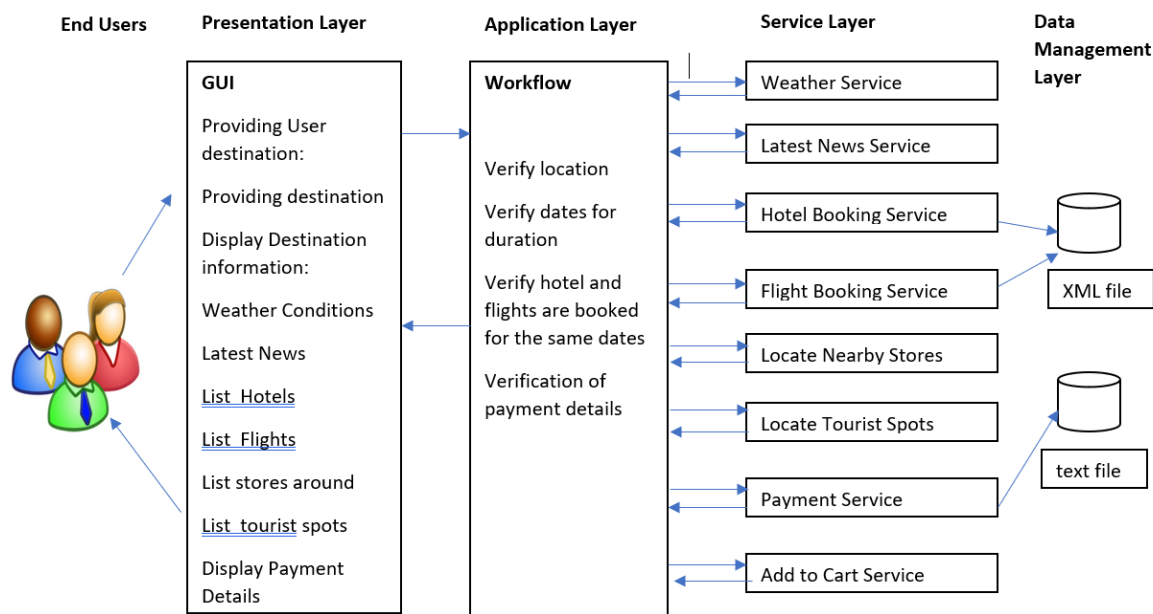
1.3 Service Directory

Service Directory: Our team plans to complete the following services. Changes can be made later in project 5.

This service directory will be deployed at this address*: http://webstrar30.fulton.asu.edu/

Team name: Team : Siddharth, Anvitha, Suchita

Provider name	Service name, with input and output types	TryIt link*	Service description	Planned resources need to implement the service
Suchita Vichare	Stemming: Input: A string type of a word or words. Output: The string of the inflected or derived words replaced by their stem words.	http://webstrar30.fulton.asu.edu/page8/Form1	Analyze a string containing a word or multiple words and replace each of the inflected or derived words to their stem or root word. For example, "information", "informed", "informs", "informative" will be replaced by the stem word "inform". This service can help find useful keywords or index words in information processing and retrieval.	Used the porter stemmer algorithm to implement stemming service.
Suchita Vichare	Top10ContentWords	http://webstrar30.fulton.asu.edu/page8/ContentWords	Input: A webpage url in string. Output: An array of strings that contains the ten most-frequently occurred words in descending order of their frequencies. The required words must not be element tag name or attribute name of XML	Write my own code and use local component to implement the service

			page or HTML source page.	
Suchita Vichare	NewsFocus Input: a list of topics or key words Output: A list of URLs in which the given topics are reported.	http://webstrar30.fulton.asu.edu/page8/NewsFocusForm	Find news about specific topics, for example, find all (as many as possible) news articles about ASU (Arizona State University).	Use the Google News Service.
Suchita Vichare	Find the Nearest Store Input: two strings Output: string message	http://webstrar30.fulton.asu.edu/page8/Stores	Use an existing online service or API to find the provided storeName closest to the zipcode and return the address. If no store is found, return an error message. (Optional: if the store is further than 20 miles, from the zipcode, return a "no stores within 20 miles" message). You may find APIs that return store list from site such as Foursquare.com or Yelp.com, and http://www.programmableweb.com	Use the service from Yelp site at: http://www.yelp.com/

Anvitha Dinesh Rao	Top10ContentWords Input: A webpage url in string format. Output: An array of strings	http://webstrar30.fulton.asu.edu/page5/ToursitLocatorTryIt	An array of strings that contains the ten most-frequently occurred words in descending order of their frequencies. The required words must not be element tag name or attribute name of XML page or HTML source page.	Implemented the service using my code.
Anvitha Dinesh Rao	WordFilter Input: A string separated by space Output: A string without stop words.	http://webstrar30.fulton.asu.edu/page5/ToursitLocatorTryItx	Analyze a string of words and filter out the function words (stop words) such as "a", "an", "in", "on", "the", "is", "are", "am", and any words that are not meaningful to be counted at the top words in search.	Write my own code and use local component to implement the service
Anvitha Dinesh Rao	Locate Sightseeing places Input: Latitude and Longitude Output: A list of places name(string)	http://webstrar30.fulton.asu.edu/page5/ToursitLocatorTryIt	Takes zipcode as input,returns a list of strings which are list of tourist places of specified type of interest such as zoo , art_gallery. Also you can find nearby transport services by providing zipcodes	Locate places around given point: https://developers.google.com/places/web-service/search
Anvitha Dinesh Rao	Payment Service Input:All booking with amount	http://webstrar30.fulton.asu.edu/page5/ToursitLocatorTryIt	Takes as input a list of all bookings and credit card numbers. Verifies credit card,generates credit card	Write my own code and use local component to implement the service

	Output:Credit card check and total balance		and also checks bonus points for a given user. State information is maintained using a file.	
Siddharth Pandey	**RESTful service** File Upload Service Input : Name of file to be uploaded Output: URL of the file in the server.	http://webs trar30.fulto n.asu.edu/ page0/	Takes as input the local path of a file and then uploads the file to the server. Displays the URL of the file on the server on the web page.	Used my own code to develop the service. The File Upload control in .NET was used to upload the file.
Siddharth Pandey	**RESTful service** Weather Service Input: a zip code (string) Output: A list of strings storing 5 day weather forecast for given zip code	http://webs trar30.fulto n.asu.edu/ page0/	Takes as input a zip code location in string format. Returns as output a list of strings which contains a 5 day weather forecast for the given location.	Used the RESTful weather service from https://www.openweathe rmap.org .to retrieve the weather information in XML format.
Siddharth Pandey	Hotel booking service Input: location(string) Output: Hotels near to the specified location	http://webs trar30.fulto n.asu.edu/ page0/Ele ctiveServic es	Finds hotels near to a given location. Further, let's the user select and book the hotel for specified dates if they select it	Use Yelp's restful services at http://www.yelp.com

			How to run the service? 1. Enter a location in the text box 2. Click **Search.**	
Siddharth Pandey	Add to Cart Service: Input : Booking details for a given hotel such as hotel name, no of days, price per day etc. Output: All the orders in the cart along with their details and total amounts.	http://webstrar30.fulton.asu.edu/page0/ElectiveServices	The Add to Cart service enables the user to make purchases on the website. We keep track of all the hotel bookings the customer has made and display the current status of the cart on the web page. **Note : The AddToCart service is accessed by clicking the "Book a Hotel" button on the Elective Service page**	Use my own code to implement the service.