Requirement Document of Group 86

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Q1.1

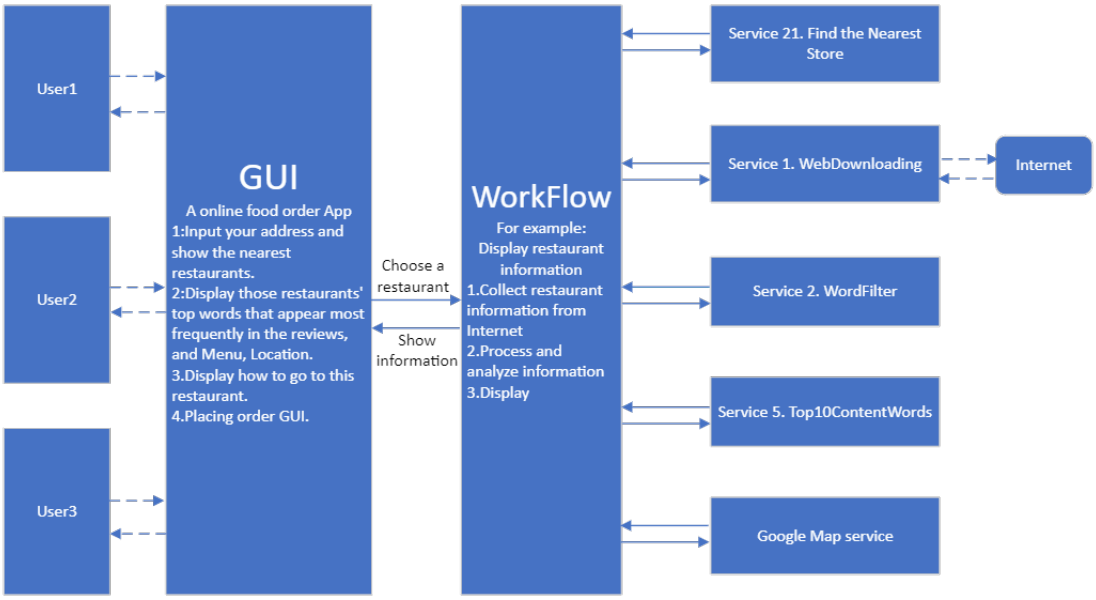
Project Description and Idea

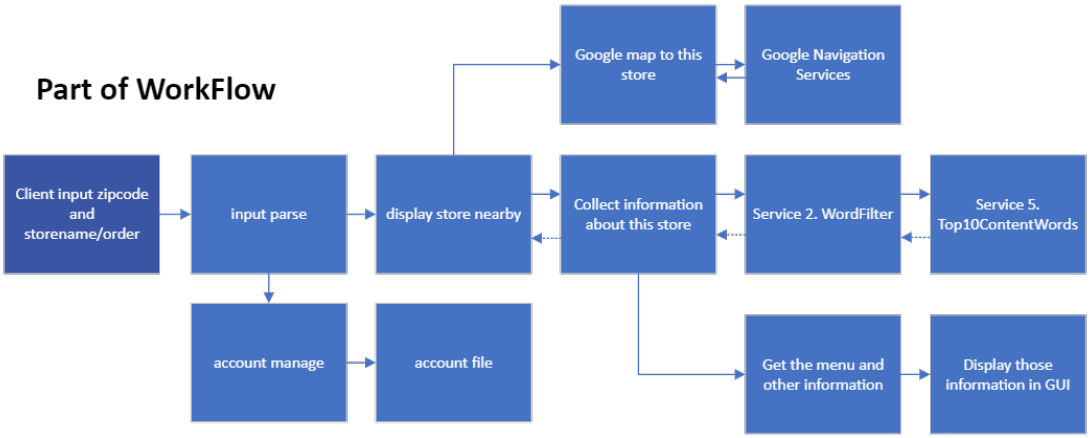
The SOC system we planned to develop is an online ordering system to help people book seats or order online at some stores. In further, we may provide some advanced functions like online delivering service by taking advantage of SOA's scalability to extend the function easily.

A glance looks at our services:

1. Reservation System matters, especially when you go to an upscale restaurant, so we provide it.
2. Providing the whole information about the store(The store can be virtual or in-person) when searching in different filter ways (Tags, Price, Location, etc). Further, users can order things from every store if they are in stock.
3. And we collect that information from the Internet to help users to choose and analyze data to show the top words that appear most frequently in the reviews.

Q1.2:





Q1.3 service directory

Service Directory				
This service directory will be deployed at this address*:				
Team name/Number:			Ziyang Wang	Lei Hu
Provider name	**Service name, with input and output types**	**TryIt link***	**Service description**	**Planned resources need to implement the service**
Ziyang Wang	Find the Nearest Store string findNearestStore (string zipcode, string storeName)	\	Given the name and location return the information of bussiness meet.	Using the Yelp fusion https://api.yelp.com/v3/businesses/search to find the related bussiniess
Ziyang Wang	WebDownloading string WebDownload(string url)	\	Given the name and give URL, return the	Write my own code and use local component to implement the service

			HTML content in string type.	
Ziyang Wang	OnlineOrdering String onlineOrdering (string items, string bussniessID, int nums)	\	Order item of store given the ID and nums	will also use Yelp fusion
Ziyang Wang	BookSeat boolean bookSeat (string bussiniessID, ElementType seat)	\	Book seats if its avaliable	Since it hard to get the data of seats, I may use myself one
Lei Hu	Top10ContentWords Input:String Output:String	\	Analyze a string of words, then return the ten most-frequently occurred words in the string.(punctuation, XML tags or attribute names, HTML tags are not counted)	Write my own code and use local component to implement the service
Lei Hu	WordFilter https://localhost:44324/api/wordfilter?str=input Input:String Output:String	\	Analyze a string of words, then filter and remove the stop words, XML tags or attribute names, and so on, and finally return the string.	Write my own code and use local component to implement the service
Lei Hu	Navigation Input:String Output:array of string	\	Uses existing API to find best route go to that store and show the map which linked to external map service.	Google Maps API
Lei Hu	GetInfoStore Input:String Output:array of string	\	Uses WebDownloading to download information about store from Yelp.com. Then analyze data and extract from it	Yelp.com Yelp API

			information about the store's menu, reviews, etc.	