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:**

图片包含 图示

描述已自动生成图形用户界面, 图示

描述已自动生成

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 HTML content in string type. | | Write my own code and use local component  to implement the service | |
| 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 information about the store's menu, reviews, etc. | | Yelp.com Yelp API | |