

Service Layer Re-Design

For the MVP of my application design, I believe I will need to have the following service endpoints: user, events – for UI, events – for Octaparse. In my opinion, these endpoints are the minimum required to produce a fully functional application.

In response to the peer review, I believe one other service layer component will need to be added in regarding the Ratings stretch feature that will call up on ratings provided by users that have accounts. The ratings will be based on the ratings a user provides for any given venue and will be displayed by and retrieved by external process whenever a venue is pulled up again as a search result.

User Service Endpoint. The purpose of the user service endpoint is to facilitate manipulation of the saved or non-guest profiles based on email address. This service endpoint will facilitate account creation, profile update, preference selection, login and logout operations. For example, if Travis Traveler was a new user, his account creation activity would utilize this service endpoint, to garner him new user form/page, push data for account creation in order to save preference information to include preference selections for later use.

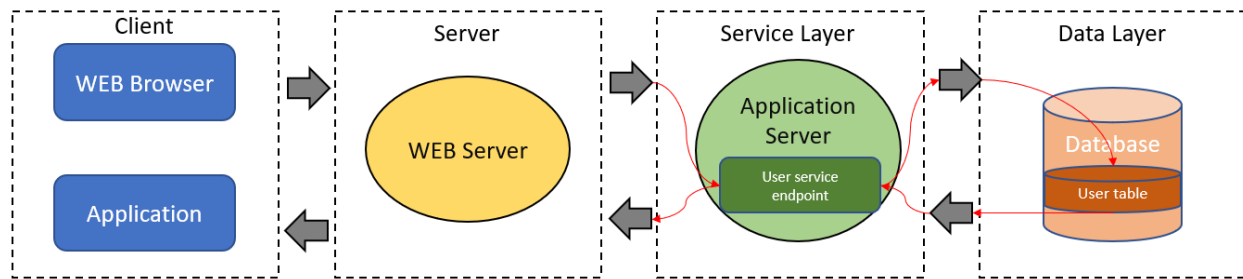
Sample Requests/Responses

GET /User/{email}	Get user by email address
Parameter	
Email string	The email for user account that needs to be fetched
Responses	
200	Successful Operation; information retrieved: - email - preferences
400	Invalid email address supplied
404	Email address not found

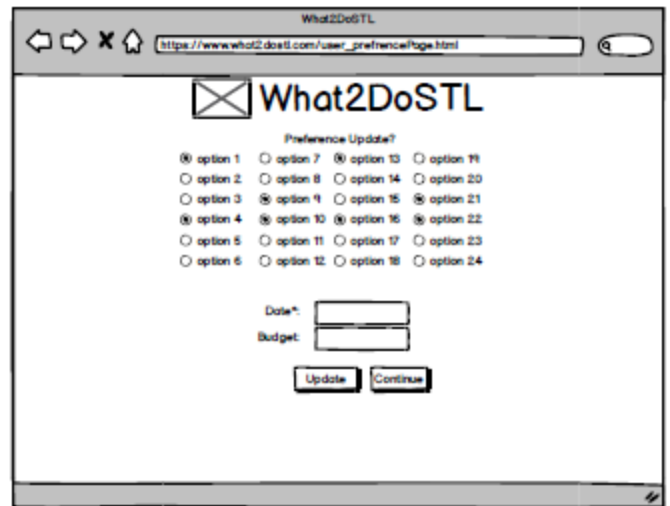
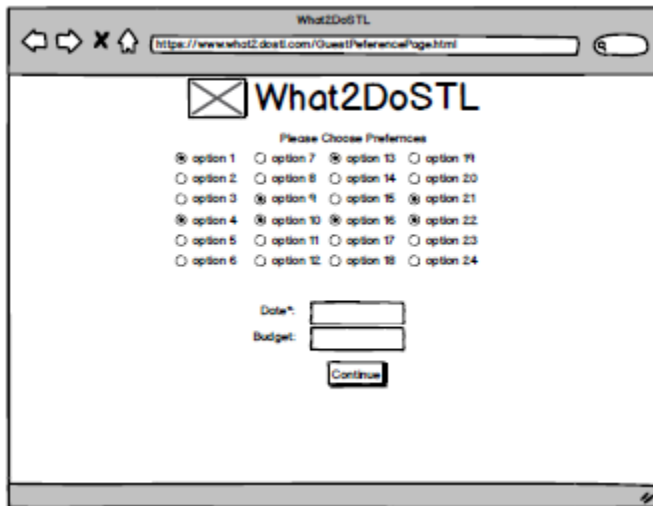
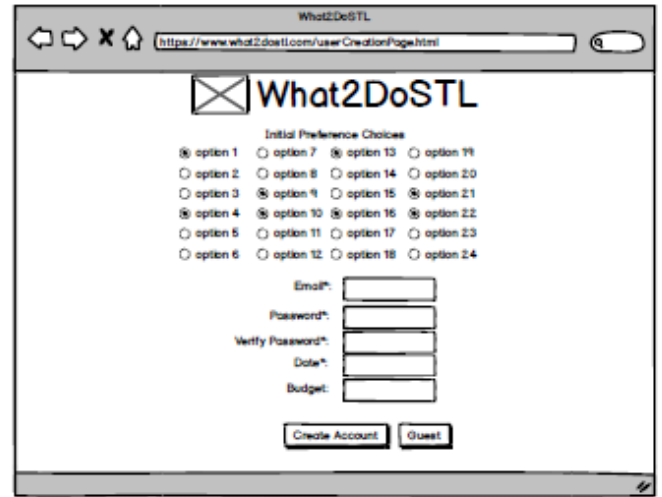
PUT /User/{email}	Update user data
Parameter	
Email string	The email for user account that needs to be fetched
Body object	User information to be updated (i.e. password, preferences)
Responses	
400	Invalid email address supplied
404	Email address not found

POST /User	Create User
Parameter	
Body object	User information required to create account (i.e. email, password, preferences)
Responses	
200	Successful Information
400	Invalid information provided

High-level Diagram



UI Page(s) to Utilize Service



Ratings Service Endpoint (for UI). The purpose of this service endpoint is to facilitate the rating stretch feature I plan to implement after the MVP has been completed. The service will call ratings given by users on a particular venue whenever the venue ID has been rated by user with an account. In addition this service will

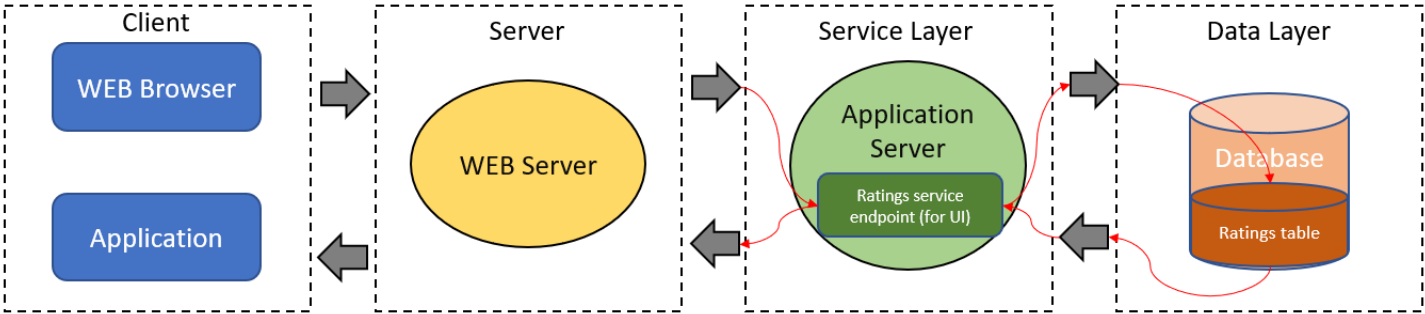
process any new ratings a logged in user has given to a particular venue and place them within the Ratings Table of the database.

Sample Requests/Responses

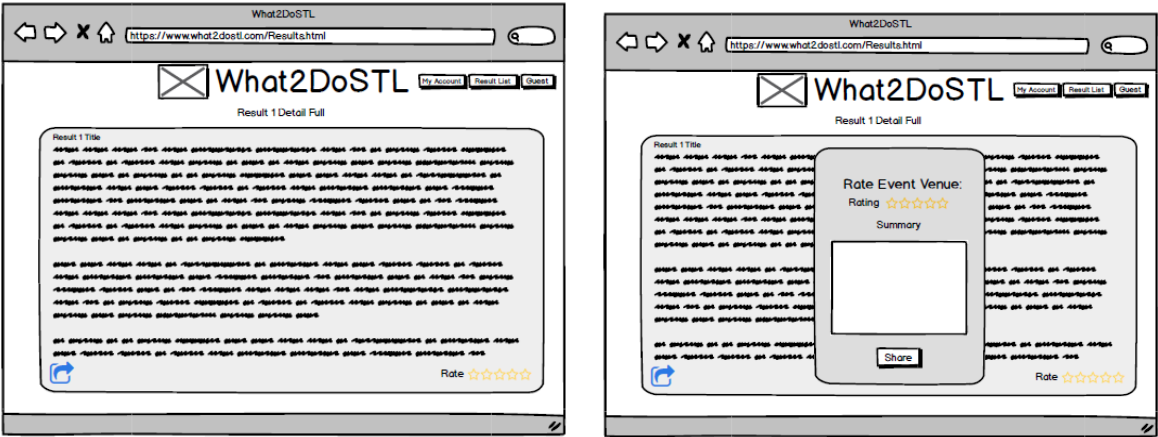
GET	/Rating/{VenueName}	Get ratings for a particular venue
Parameter		
VenueName	string	The Venue Name of ratings data that needs to be retrieved
Responses		
200	Successful Operation; information retrieved: - rating - summary	
400	Invalid venue Name supplied	
404	No ratings for venue found	

POST	/Rating	Create Ratings Input
Parameter		
Body	object	User information required to create ratings entry (i.e. Venue Name, UserID, Rating, Rating Summary)
Responses		
200	Successful Ratings Entry Created	
400	Invalid information provided	

High-Level Diagram



UI Page(s) to Utilize Service



Events

Service Endpoint (for UI). The purpose of this service endpoint is to service requests and queries for events based on user input. This service will facilitate the calling of event data specific to user input/preferences. For

example, once Hannah Hometown submitted her preferences this service endpoint would retrieve the data specific or that best matches the formulated preference indicators/attributes.

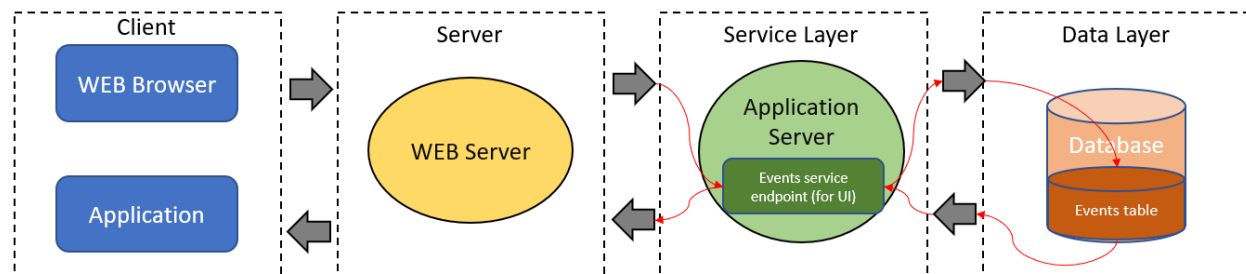
Sample Requests/Responses

GET /Event/FindByType	Get event data by type
Parameter	
Type array[string]	Type values that needs to be considered for filtering
Responses	
200	Successful Operation provides filtered event data
400	Invalid Type value

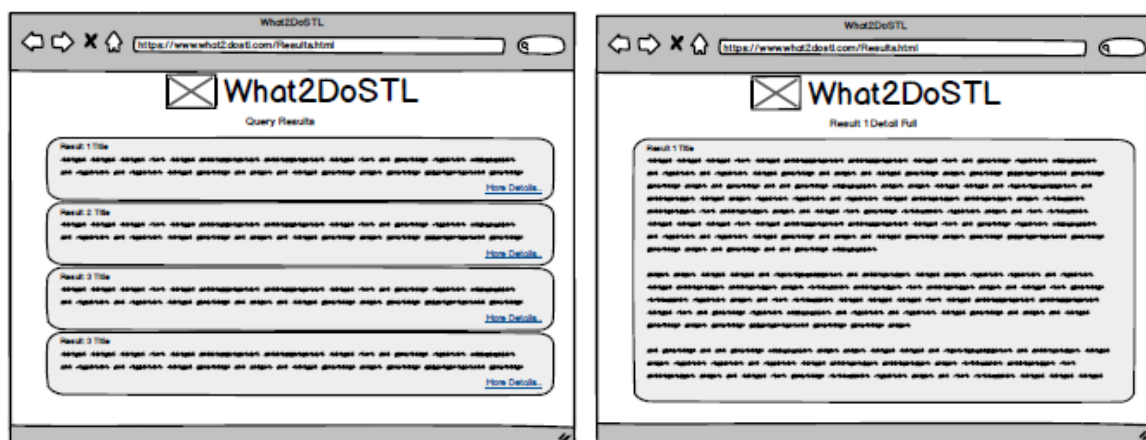
GET /Event/FindByPrice	Get event data by price
Parameter	
Price integer	Price value that needs to be considered for filtering
Responses	
200	Successful Operation provides filtered event data
400	Invalid price value

GET /Event/FindByDistance	Get event data by type
Parameter	
Distance integer	Distance value that needs to be considered for filtering
Responses	
200	Successful Operation provides filtered event data
400	Invalid distance value

High-Level Diagram



UI Page(s) to Utilize Service



Events Service Endpoint (for Octaparse). The purpose of this service endpoint is to facilitate the pushing of scraped event data from scheduled processes into the database. This service will facilitate the formatting of data for database updates providing for uniform querying of events.

Sample Requests/Responses

GET /Event/{eventID}	Get event data by ID
Parameter	
ID integer	ID value that needs to be considered for filtering
Responses	
200	Successful Operation provides filtered event data
400	Invalid eventID value

POST /Event	Create User
Parameter	
Body object	Event information required to create event data entry (i.e. event name, location, type, distance, price, date)
Responses	
200	Successful Information
400	Invalid information provided

Delete /Event/{date}	Delete Event
Parameter	
date date	Date information required to filter data entries to be deleted
Responses	
400	Invalid date provided
404	Date information not found

High-Level Diagram

