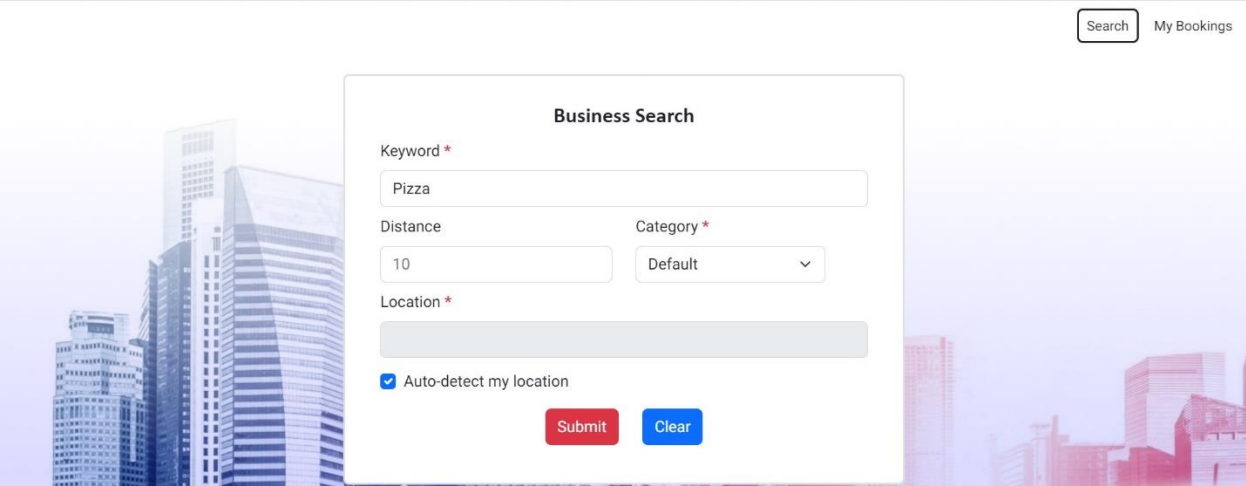







Keyword and Proximity Based Business Search & Reservation Creation and Management Application	
Description	A distributed & highly scalable single page web application for business search and reservation, implemented using AngularJS (HTTP callbacks) for the frontend and Node.JS (real-time AXIOS call) for the backend
App Link	https://frontend-dot-search12pattern.wl.r.appspot.com/
App Host	Google Cloud Platform (GCP)
Frontend Framework	<ol style="list-style-type: none"> 1. Angular JS 2. HTML 3. Bootstrap 5
Frontend Functionality	<ol style="list-style-type: none"> 1. Basic skeleton with HTML5 and bootstrap for search form and navigation feature between the components. 2. The application is dynamic with Angular.JS and event handlers. 3. API calls with FETCH and AXIOS for time efficiency.
Backend	NodeJS – Express Framework
Backend Functionality	Created a server that would asynchronously calls necessary APIs, parses the JSON result, and send the result back.
Public APIs	<ol style="list-style-type: none"> 1. YELP Business Search API (business search hits) 2. YELP Business Details API (individual business details) 3. YELP Autocomplete API 4. IP Info API (location tracking using IP Address) 5. Google Geocoding API (converts input address to coordinates) 6. Google map API (map)
Instructional Video	https://youtu.be/XcUg8ju6HnQ
Instructional Text	<p><u>COMPONENT 1: SEARCH</u></p> <ol style="list-style-type: none"> 1. Enter any business/ hotel/ food item in the keyword bar. 2. Enter search range (miles) in the distance field. Default range is 10-mile radius. 3. Enter the address in the location bar or select the check box to auto-detect your location. 4. Optionally – you can select a category for your search as well. 

- Hit **submit** to view search result or **clear** to empty the search form.
- The result table displays up to 20 results.

#	Image	Business Name	Rating	Distance (miles)
1		Braazo Pizza	4.5	3
2		Detroit Pizza Depot	4.5	1
3		Prince Street Pizza	4.5	4
4		L'Antica Pizzeria Da Michele	4.5	7
5		Fat Tomato Pizza	4.5	5

7. Click on any row to display the individual details of the clicked-on row.
8. Each business card has 3 tabs:
 - a. **Tab 1:**
 - i. Business details of the clicked-on row, like the business address, yelp link, price range, category of service, photos of the business.
 - ii. Twitter Button – To tweet the business link on your Twitter feed.
 - iii. Facebook Button – To post the business link on your Facebook feed.
 - iv. Reserve Button – To make a reservation in that restaurant.
 - v. Cancel Button (Reserve Button automatically changes to Cancel Button when reservation is made) – To cancel the reservation.

Detroit Pizza Depot

Business detailsMap locationReviews

AddressCategory

358 W 38th St Unit 13 Los Angeles, CA 90037Pizza

PhonePrice range

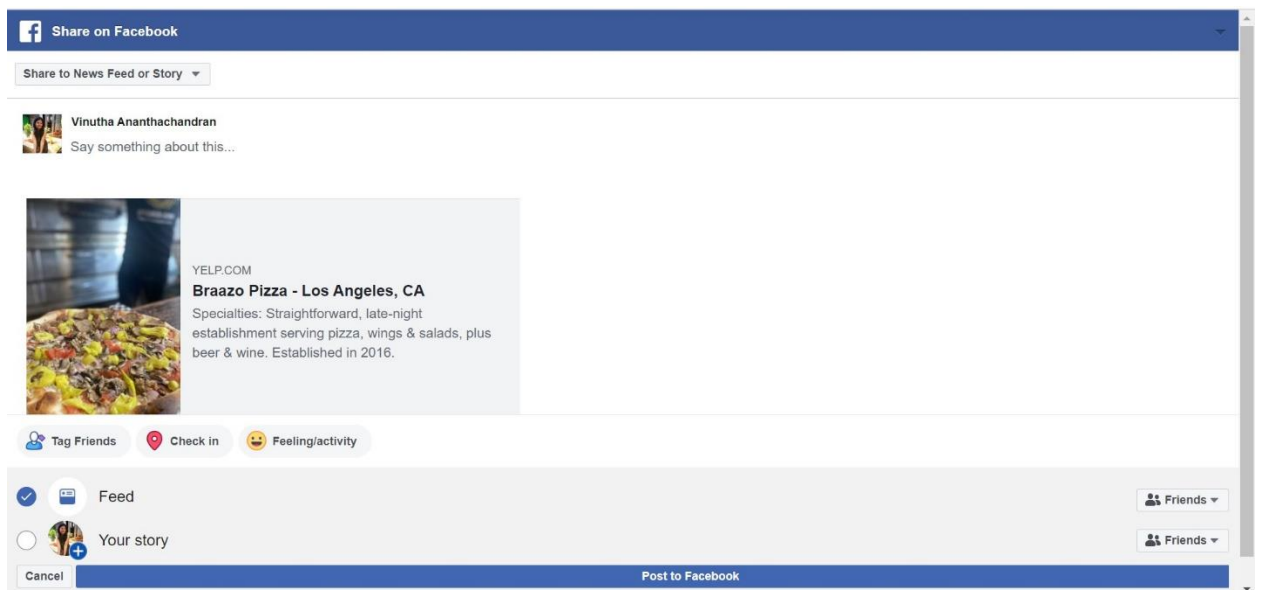
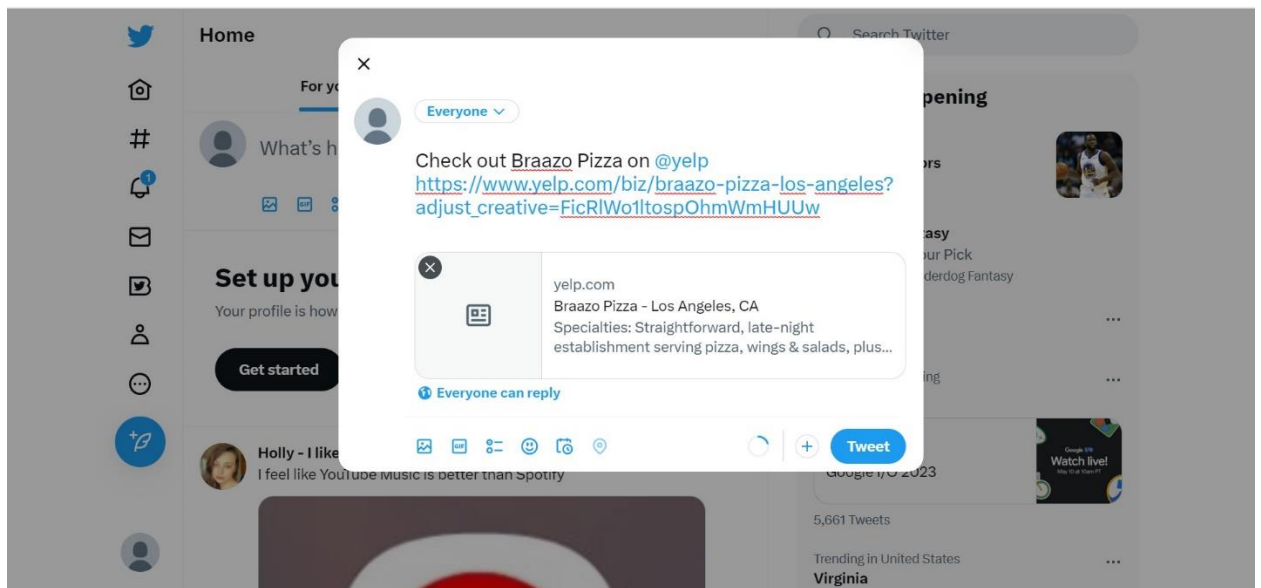
(909) 978-7383

StatusVisit yelp for more

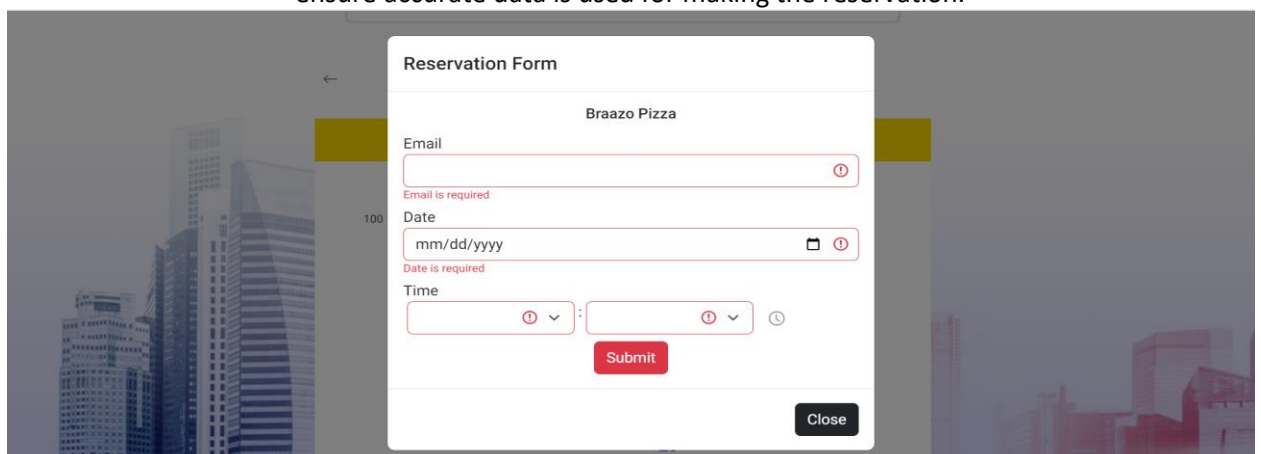
Open Now[Business link](#)

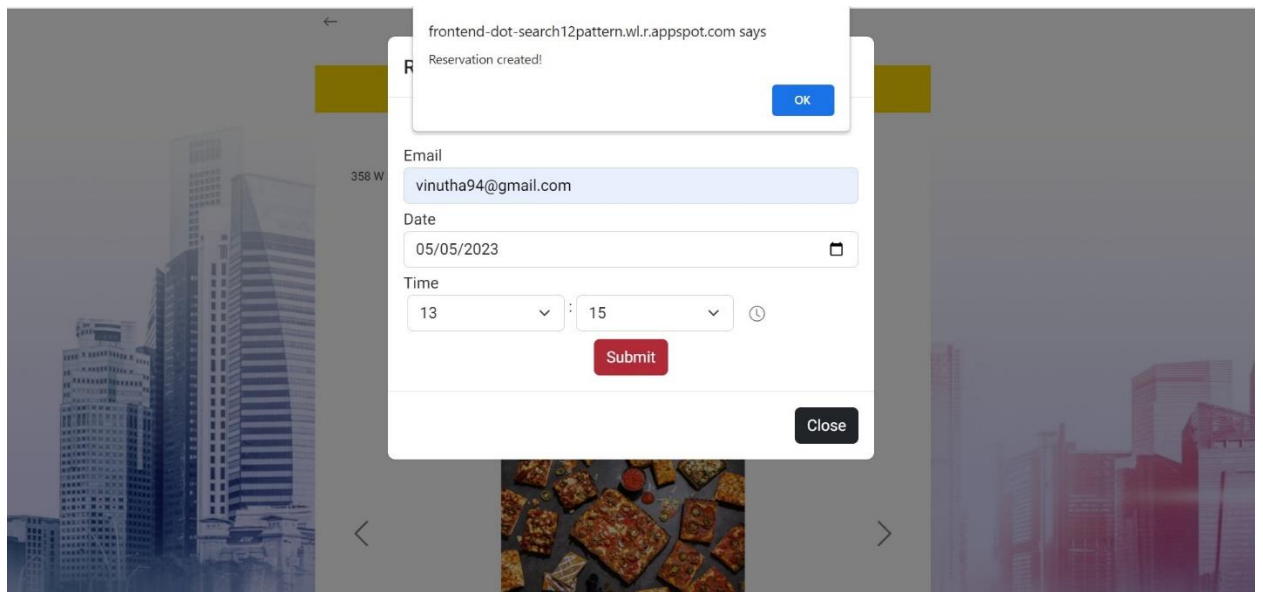
Reserve Now

Share on:

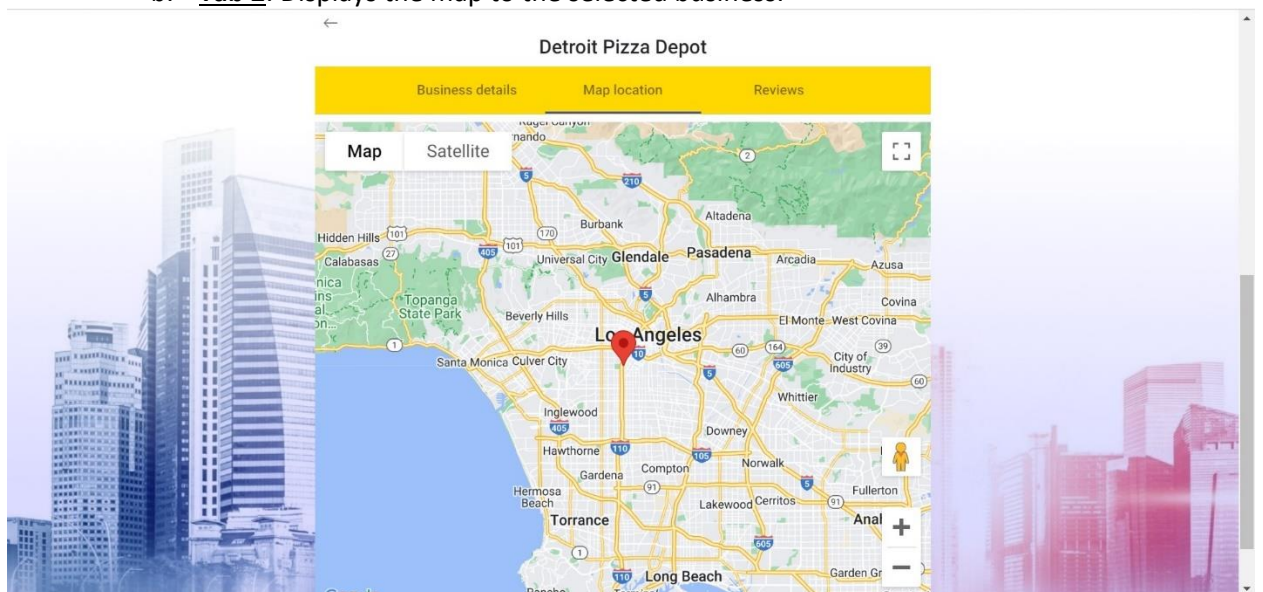


- vi. The reserve button opens a modal dialog box to make the actual reservations. The modal dialog box also has data validation and verification event handlers to ensure accurate data is used for making the reservation.

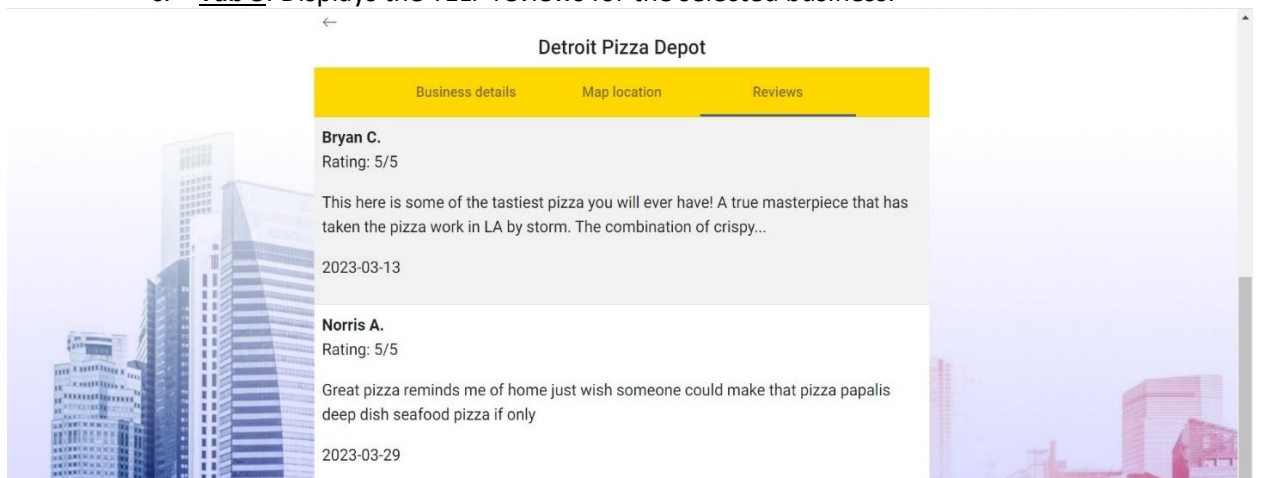




b. **Tab 2:** Displays the map to the selected business.

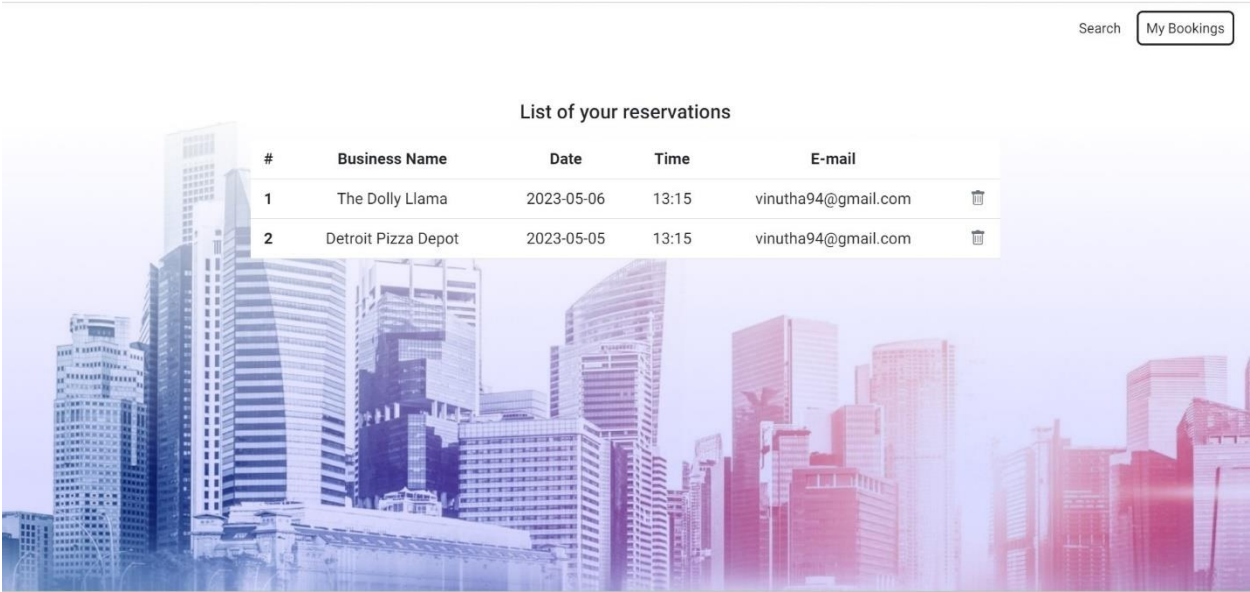


c. **Tab 3:** Displays the YELP reviews for the selected business.



COMPONENT 2: MY BOOKINGS

1. Displays all the reservations made using component 1



2. The reservation rows are interactive too, the delete button at the end of the reservation row allows the user to cancel the reservation and automatically bumps up or bumps down the rest of the reservations.

Summary

1. The ability to perform search, review, reservations, modifications and tracking from one location (Centralized access).
2. Reservation storage and real-time modification and update.