

# Smarter-Planner App

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## INTRODUCTION:

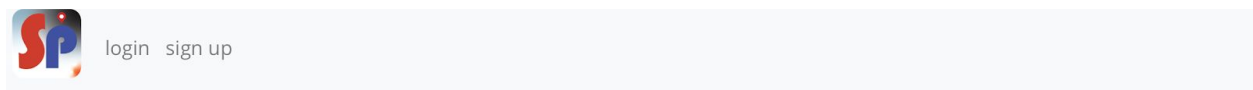
Have you ever felt indecisive and needed some help with planning out a trip with your friends? Have you ever missed out on special events or felt confused about choosing where to visit on weekends or find activities to explore a new city with your friends? Our app will provide you the support you need, using the Yelp and Eventbrite API to provide recommendations on new places to try out based on your and your friends' input preferences on food, preferred activities, location, and time duration, and map out the trip for you by listing the top 10 places in the certain area. The app can provide you a detailed agenda for a given timeframe. From activities to the restaurants to grab food, this app will guides you to have a meaningful trip, a quality weekend with your friends, and explore a city blissfully.

## USER STORIES:

1. User can register/login the account with the google account (or email) and password
  - a. oauth
  - b. After registration or login the app will direct user to main screen
  - c. Every page redirects to this page if not logged in

A fresh visit to the web app should ask users to register through OAuth to enter the website. If the user has already registered, signing in through OAuth should prompt users to be redirected to the main content screen. If the user tries to access the web app without being logged in, they should be redirected to this splash screen / login screen.

The sign up form page looks like this:



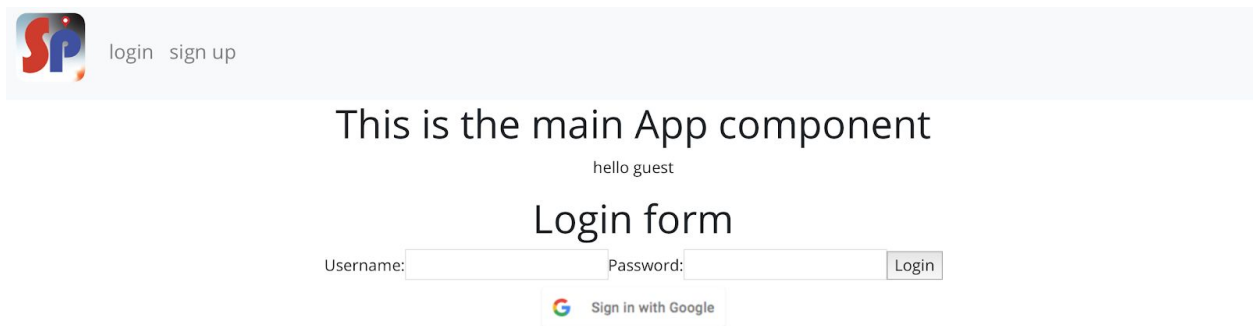
This is the main App component

hello guest

## Signup form

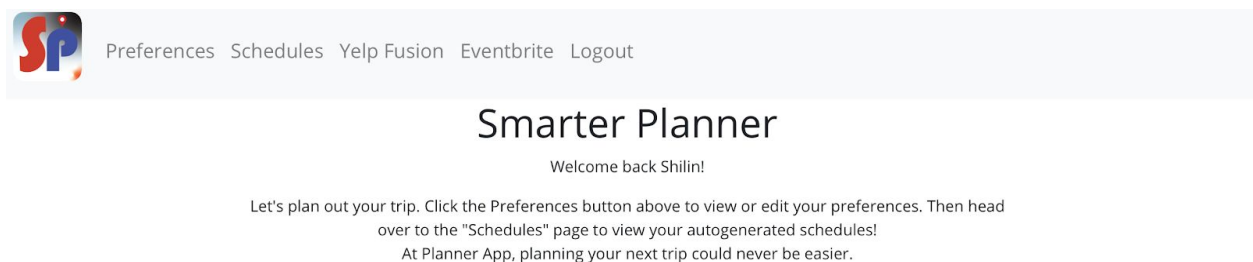
Username:  Password:  Confirm Password:

If the user chooses to sign in with a Google account, the page looks like this:



The login form is displayed on a light blue background. At the top left is the 'sp' logo. To its right are the links 'login' and 'sign up'. The main heading is 'This is the main App component' with the text 'hello guest' below it. The title 'Login form' is centered. Below the title are two input fields: 'Username:' and 'Password:'. To the right of the password field is a 'Login' button. Below these fields is a 'Sign in with Google' button featuring the Google logo.

After logged in, the app will lead the user to a welcome page (Home Page):

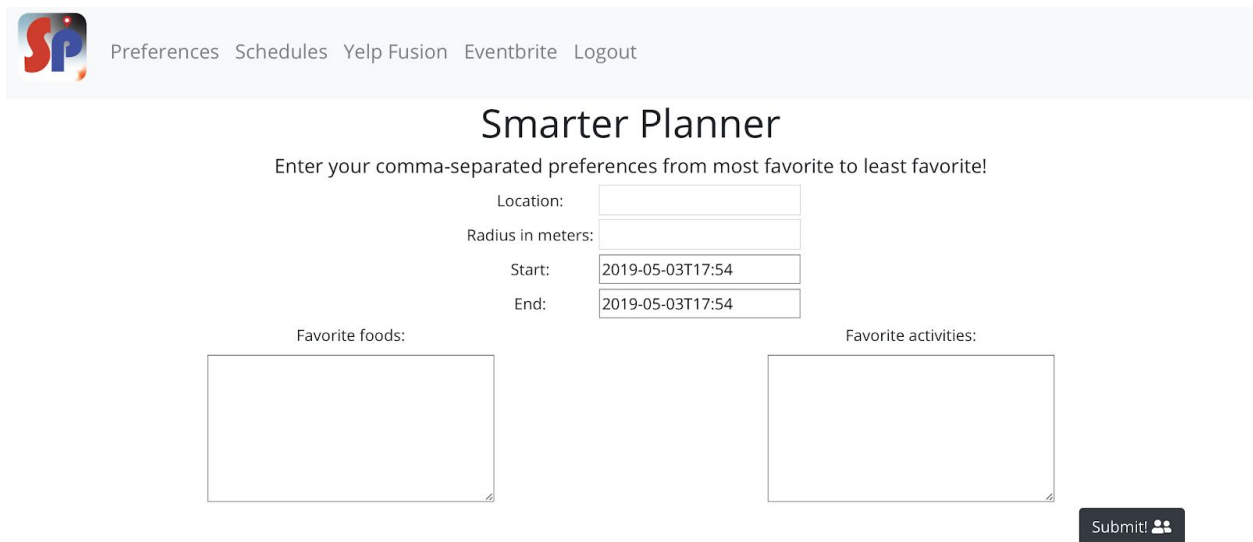


The welcome page has a light blue header with the 'sp' logo on the left and navigation links 'Preferences', 'Schedules', 'Yelp Fusion', 'Eventbrite', and 'Logout' on the right. The main heading is 'Smarter Planner' with the text 'Welcome back Shilin!' below it. A paragraph of text follows: 'Let's plan out your trip. Click the Preferences button above to view or edit your preferences. Then head over to the "Schedules" page to view your autogenerated schedules! At Planner App, planning your next trip could never be easier.'

2. In the application, user can set, edit and rank preferences by inputting the location, activities, types of restaurants(preferred food type), and duration (time frame).
  - a. Enter user's preferred location, estimated radius in meters to set a certain area for the app to search from
  - b. Enter the Start Time and End Time to control your own time frame. If not enter anything, the system will set the default time as current time.
  - c. Enter comma-separated preference of foods from most favorite to least favorite
  - d. Enter the user's favorite activities
  - e. Rearrange and edit the preferences by editing the "Preferences" screen
  - f. After editing the personal preference, tap the "Submit!" button below in the "Preference" screen

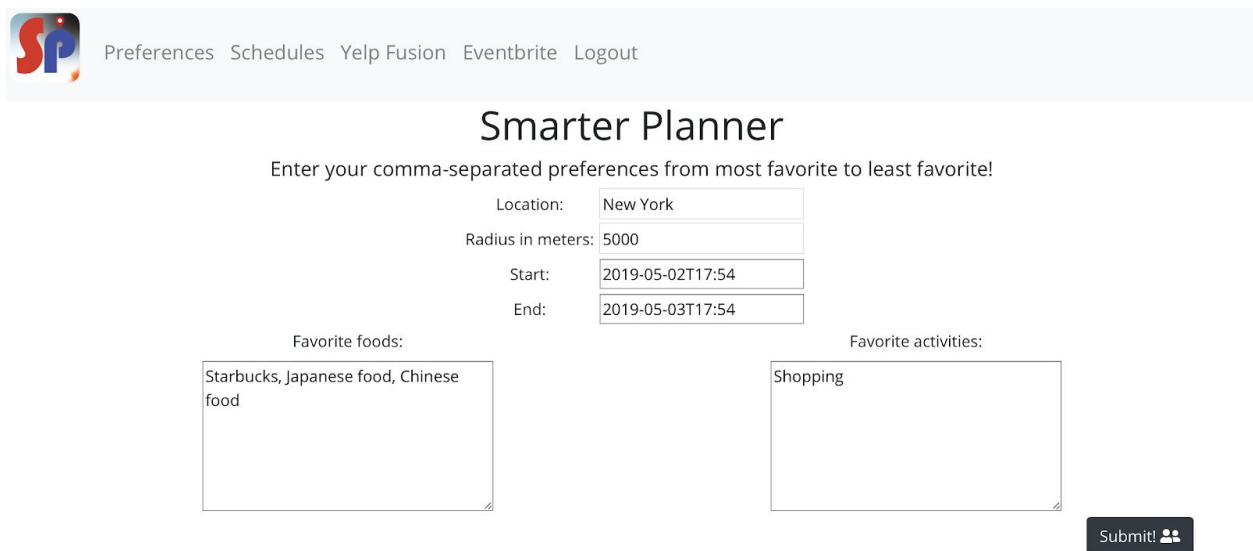
If the user hasn't already done so, once logged in, the web app should prompt users to input and set their "Preferences" pertaining to trip location, types of activities, food type, and the trip duration. Their preferences will be sorted on a list of top 10 choices at the "Schedules" screen, connecting to both Yelp API and Eventbrite API. If want to add more preferences, user can go back to "Preferences" and add more by comma, and click the "Submit" button again.

The page of “Preferences” will initially look like this:



The image shows the 'Smarter Planner' Preferences page. At the top is a navigation bar with the 'sp' logo and links for 'Preferences', 'Schedules', 'Yelp Fusion', 'Eventbrite', and 'Logout'. The main heading is 'Smarter Planner', followed by the instruction 'Enter your comma-separated preferences from most favorite to least favorite!'. The form includes input fields for 'Location:', 'Radius in meters:', 'Start:', and 'End:'. Below these are two large text areas for 'Favorite foods:' and 'Favorite activities:'. A 'Submit!' button with a user icon is at the bottom right.

The user may input the datas in this format:

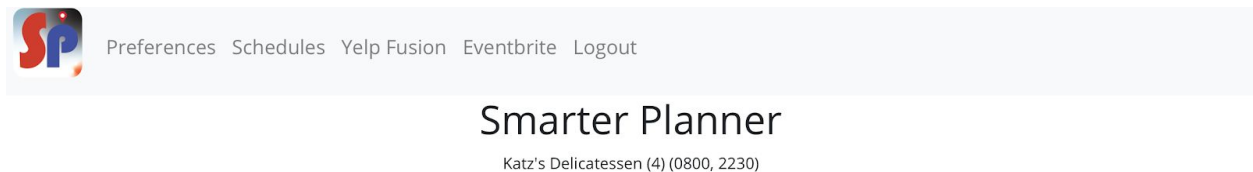


This image shows the same 'Smarter Planner' Preferences page, but with sample data entered. The 'Location' field contains 'New York', 'Radius in meters' contains '5000', 'Start' contains '2019-05-02T17:54', and 'End' contains '2019-05-03T17:54'. The 'Favorite foods' text area contains 'Starbucks, Japanese food, Chinese food', and the 'Favorite activities' text area contains 'Shopping'. The 'Submit!' button is visible at the bottom right.

3. User can see the suggested agenda in “Schedules” tab made based on the user’s preference previously
  - a. The top 10 matched outcomes will show up in the “Schedules” screen, followed by the rating of each place and opening time available
  - b. User can save their favorite suggested agenda(s) for future use

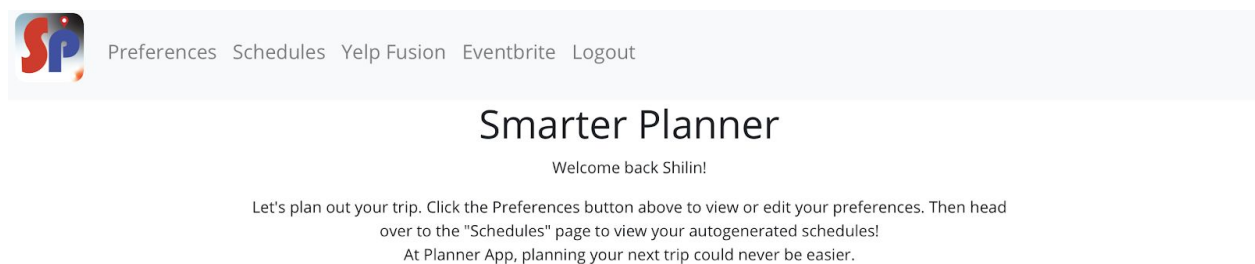
Users, once they have specified their preferences, can then generate a suggested agenda based on the preferences they inputted earlier in the new “Schedules” page. They can get informations of the suggested agenda with suggested the rating of each place and opening time available to

better suit their schedule. For example, we get Katz's Delicatessen as the top 1 suggested agenda based on preference. The rating score of this restaurant is to be a 4 out of 5, and it's opening from 08:00 to 22:30 for a usual Monday, which gives a clearer view to users for planning.

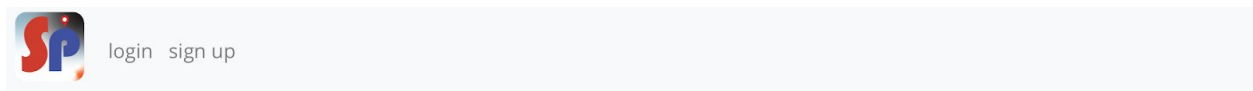


4. User can get back to the "Home" Page by click our App Logo!
  - a. If the user wants to get back to the home page, they can simply click the logo as a button
  - b. Log out

Once a user has settled on a particular agenda they want to pursue, they have the option to get back to home page. Simply click our logo for Smarter-Planner app, and it will take the user to the very beginning.



To protect the user's personal information, do not forget to log out after using our app. And it will take them to the login screen again.



hello guest

Current User:


```
{"user":null}
```

## PREPARATORIES:

We make individual pages for both Yelp API and Eventbrite API to test for our main functionality, and linked them to the main APP ---- “Preferences” & “Schedules”.

### 1. Yelp Fusion

By using the Yelp API, after inputting the “term” as the name of the restaurant and “location” as the target city’s name and click the “submit” button below, all the informations of the place will come out as outcomes.

 Preferences Schedules Yelp Fusion Eventbrite Logout

## Smarter Planner

Yelp Fusion POST request:

term:

location:

```
{ "id": "Q1nrGnDLVq80EbuXUybpIQ", "alias": "starbucks-boston-153", "name": "Starbucks", "image_url": "https://s3-media3.fl.yelpcdn.com/bphoto/3I58JfwxDW5R0tdhI6eUEQ/o.jpg", "is_closed": false, "url": "https://www.yelp.com/biz/starbucks-boston-153?adjust_creative=5XN6f3YPEW04a6eulwK_fw&utm_campaign=yelp_api_v3&utm_medium=api_v3_business_search&utm_source=5XN6f3YPEW04a6eulwK_fw", "review_count": 20, "categories": [ { "alias": "coffee", "title": "Coffee & Tea" } ], "rating": 2.5, "coordinates": { "latitude": 42.350708, "longitude": -71.069972 }, "transactions": [ ], "price": "$$", "location": { "address1": "64 Arlington Street", "address2": "", "address3": null, "city": "Boston", "zip_code": "02116", "country": "US", "state": "MA", "display_address": [ "64 Arlington Street", "Boston, MA 02116" ] }, "phone": "+18572830233", "display_phone": "(857) 283-0233", "distance": 335.4040628849745 }
```

starbucks-boston-153

### 2. Eventbrite

By using the Eventbrite API, after inputting the “location”, and click the “Add Node server” button, a list of top 5 places for different type of activities in the preferred location will come out as outcomes. Each will followed by the name of the activities and a URL link directed to the certain eventbrite page.



[Preferences](#) [Schedules](#) [Yelp Fusion](#) [Eventbrite](#) [Logout](#)

## Smarter Planner

### Generate New Events List

Location Name:

new york

Add Node server



[Preferences](#) [Schedules](#) [Yelp Fusion](#) [Eventbrite](#) [Logout](#)

## Smarter Planner

FREE ADMISSION | SATURDAY NIGHT | Sky Room NYC Tallest Rooftop Bar Lounge Times Square

<https://www.eventbrite.com/e/free-admission-saturday-night-sky-room-nyc-tallest-rooftop-bar-lounge-times-square-tickets-28460729809?aff=ebapi>

NYC Hip Hop vs. Reggae Katra Lounge Remix Fridays Everyone FREE (Gametight)

<https://www.eventbrite.com/e/nyc-hip-hop-vs-reggae-katra-lounge-remix-fridays-everyone-free-gametight-tickets-35750636115?aff=ebapi>

Cinco De Mayo weekend kick off FREE ADMISSION FRIDAY NIGHT ROOFTOP PARTY | NEW YORK times square

<https://www.eventbrite.com/e/cinco-de-mayo-weekend-kick-off-free-admission-friday-night-rooftop-party-new-york-times-square-tickets-17022801658?aff=ebapi>

FRIDAY NIGHT ROOFTOP PARTY | BEST VIEW OF NYC

<https://www.eventbrite.com/e/friday-night-rooftop-party-best-view-of-nyc-tickets-32714786808?aff=ebapi>

NYC Ravel Penthouse 808 Saturdays Everyone FREE onlist (Gametight)

<https://www.eventbrite.com/e/nyc-ravel-penthouse-808-saturdays-everyone-free-onlist-gametight-tickets-43019530574?aff=ebapi>

### TECH STACK:

What you see in our prototype is a Node Express server to handle our API calls and backend logic coupled with a React app for our frontend. We had heavily deliberated using Python and Flask before we decided on using the MERN stack to develop our application (although we have not yet decided on the exact formatting of our user accounts and preferences data, we knew that we did not need the need of a relational database, so we plan on using MongoDB later on to store our user information).

Weighing between the benefits of different stacks, we found a lot of information to consider:

- Flask was more appealing due to the fact that most of us were more familiar with Python than JavaScript.

- Node is faster (adaptation from Chrome's V8 engine), and since we may have to fetch and display many quantities of information from different APIs to generate what we needed for our app, performance was an important quality we looked for.
- The MERN stack revolves almost entirely around JavaScript as the main language across the entire stack, making it much easier to communicate between the front and back ends compared to other tech stacks.
- JavaScript is also really popular, so it would be good to learn it now to help us in our future careers.

With all of the above points to consider, and above all, our team's willingness to learn, we decided to use the MERN stack to develop our application.