

# MISSION KEPLER: React JS Training

## ASSIGNMENT #3: TRIP ZONE

<b>TRIPZONE</b>	SESSION TIME 3 MIN	09 APR 20 - EST 09:30	09 APR 20 - IST 13:00	Hi, Nijin Vinodan
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**Travelling first leaves you speechless, then turns you into a story teller**

Take every chance you get in your life, because something will happen only once. Once in a while, go somewhere you have never been before.

With TripZone, you could book amazing holiday spots with low fares. We understand how travelling can impact your budget.

**PLAN MY TRIP**

Source: Chennai

Destination: Paris

**SEARCH**

**Travelling to PARIS ? Know more about it.**

31°C

Paris, city and capital of France, situated in the north-central part of the country. People were living on the site of the present-day city, located along the Seine River some 233 miles (375 km) upstream from the river's mouth on the English Channel (La Manche), by about 7600 BCE. The modern city has spread from the island (the île de la Cité) and far beyond both banks of the Seine.



Eiffel Tower  
Paris



Louvre  
Paris

**AVAILABLE FLIGHTS**

Air India - 01 Apr  
Chennai - Paris  
\$ 540 **BOOK**

Air India - 02 Apr  
Chennai - Paris  
\$ 580 **BOOK**

**BOOK NOW**

**\$ 540**

Membership Discount  
\$ 30

Tax Amount  
\$ 10

You can further increase your membership discount by renewing your membership. Choose Number of Years to Renew

**1 YEAR** **2 YEAR** **3 YEAR**

You can donate to COVID-19 Care Fund by increasing the Tax Component. Choose % of Tax Component to be increased.

**10%** **20%** **30%**

Your Ticket will be emailed to your registered email and phone number.

**PROCEED TO PAY**

### Objective

#### To Learn about React Function Components and Hooks

1. Implement this Application using React Functional Components and Hooks.
2. Class Components should not be used. However classes can be preferred for utilities, and services.
3. It's a Single Page Application with multiple containers.
4. Use Containers as directed below. You can create any number of appropriate components.
5. Avoid unwanted re-renders.
6. You could use any hooks except useReducer for this exercise. See if you could play around with multiple hooks.

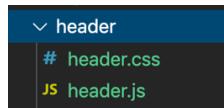
### Folder Structure

```

    < src
      > components
      > containers
      > screens
      > services
      > utils
  
```

Group JS and CSS together as a folder inside Components/Screen/Container.

*Example*



### Preferred Services File & Methods (Can be Class Files)

1. UserInfoService.js
    - a. `loginInUser(username, password)`
  2. TimeZoneService.js
    - a. `getWorldClocks()`
  3. TourismService.js
    - a. `getCities()`
    - b. `getTouristSpots(destinationCode)`
    - c. `getCityInformation(destinationCode)`
  4. FlightService.js
    - a. `getFlights(sourceCode, destinationCode)`
- 

## API URLs

### 1. Login

`http://nijinserver.herokuapp.com/dummy/tripzone/login?username=<username>&password=<password>`

*Example*

`http://nijinserver.herokuapp.com/dummy/tripzone/login?username=nijin&password=password`

### 2. To get Cities

`http://nijinserver.herokuapp.com/dummy/tripzone/cities`

### 3. To get City Information (Description, Weather)

`http://nijinserver.herokuapp.com/dummy/tripzone/city/<destination-code>`

*Example*

`http://nijinserver.herokuapp.com/dummy/tripzone/city/MAA`

### 4. To get Tourist Spots

`http://nijinserver.herokuapp.com/dummy/tripzone/tourism/<destination-code>`

*Example*

For Global Promotion

`http://nijinserver.herokuapp.com/dummy/tripzone/tourism/ALL`

For City Specific

`http://nijinserver.herokuapp.com/dummy/tripzone/tourism/MAA`

### 5. To get Flights between source and destination

`http://nijinserver.herokuapp.com/dummy/tripzone/flights?src=<source-code>&dest=<destination-code>`

*Example*

`http://nijinserver.herokuapp.com/dummy/tripzone/flights?src=BLR&dest=PAR`

### 6. To get (EST) timings

`http://worldclockapi.com/api/json/est/now`

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**Note:** All your containers and components should have `console.log` as the first line of code in function component. This is for testing purpose.

**Example :** `console.Log("Container - Plan My Trip")`

## Use Cases

### 1. Login Functionality

The application doesn't have a login page. However it's required to mock the Login.

*Service Calls*

`loginInUser(username, password)`

Call this method on app load to authenticate user.

There are two type of users

1. Prime Users
2. Normal Users

User Credentials

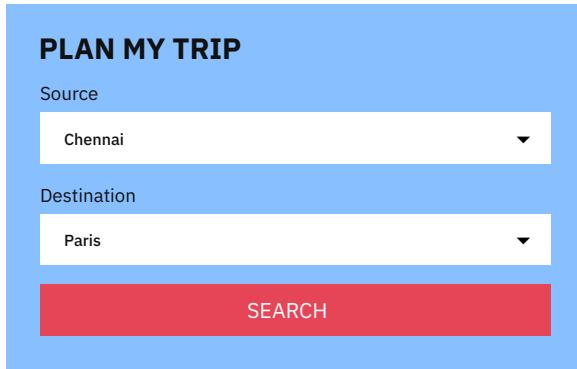
UserId	Password	Type
nijin	password	prime
niranjan	password	normal
ashok	password	prime

We might require user type in different components to highlight whether the logged in user is a Prime/Normal User.

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## Containers

### 1. PLAN MY TRIP



*Functionality* – To select source and destination.

- a. Source and Destination should be a Select Box.
- b. On click of Search Flights, *Container 2. Available Flights* should get displayed with list of flights between source and destination.
- c. On change of Destination, *Container 5. City Promotion* should get displayed.

*Service Calls*

`getCities()`

## 2. AVAILABLE FLIGHTS

The interface shows a green header with the title "AVAILABLE FLIGHTS". Below it are two flight cards. Each card features the Air India logo, flight details (Air India - 01 Apr, Chennai - Paris, \$ 540 or Air India - 02 Apr, Chennai - Paris, \$ 580), and a red "BOOK" button.

*Functionality* – To display list of flights between selected source and destination from [Container 1. Plan My Trip](#)

- Display list of flights between selected source and destination
- On No Flights Available, show “No Flights Found”
- On click of Book, [Container 3. Book Now](#) should get displayed.

*Service Calls*

```
getFlights(sourceCode, destinationCode)
```

## 3. BOOK NOW

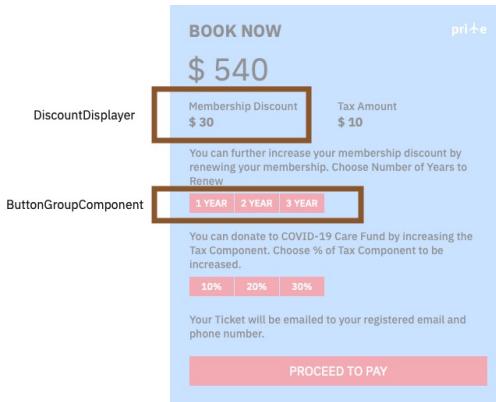
The interface has a blue header with the title "BOOK NOW" and a "pri+e" badge. It displays a flight price of "\$ 540". Below the price, it shows "Membership Discount \$ 30" and "Tax Amount \$ 10". A note says "You can further increase your membership discount by renewing your membership. Choose Number of Years to Renew" with buttons for "1 YEAR", "2 YEAR", and "3 YEAR". Another note says "You can donate to COVID-19 Care Fund by increasing the Tax Component. Choose % of Tax Component to be increased." with buttons for "10%", "20%", and "30%". A note states "Your Ticket will be emailed to your registered email and phone number." At the bottom is a red "PROCEED TO PAY" button.

*Functionality* – To enable users to increase membership discount and tax component

- Display Flight Price.
- For Prime Users, display Prime Badge on the right.
- Membership Discount – By Default, the membership discount should be 10.
  - Increment by 1 Year, 2 Years and 3 Years. Add 5, 10, 15 to the membership discount on click.

- d. Tax Amount – By Default, tax amount should be 5.
- a. Increment by 10%, 20%, 30%. Add % amount to the base flight price.

*Note: Create Child Components as mentioned below.*



## 4. SEARCH

### Travelling first leaves you speechless, then turns you into a story teller

Take every chance you get in your life, because something will happen only once. Once in a while, go somewhere you have never been before.

With TripZone, you could book amazing holiday spots with low fares. We understand how travelling can impact your budget.

Type your favorite destination here!

*Functionality – Search for a destination.*

- a. On Page Load, the search input should be focused.
- b. Should be Input Text. User can type city codes. On enter, *Container 5. City Promotion* should get displayed with the entered city details.
- c. If the entered city is not available in the database, show “We don’t currently service this city.” in *Container 5*.

## 5. CITY PROMOTION

### Travelling to PARIS ? Know more about it.

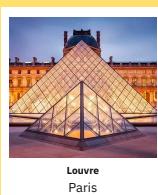
PREVIOUS

31°C

Paris, city and capital of France, situated in the north-central part of the country. People were living on the site of the present-day city, located along the Seine River some 233 miles (375 km) upstream from the river's mouth on the English Channel (La Manche), by about 7600 BCE. The modern city has spread from the island (the Île de la Cité) and far beyond both banks of the Seine.



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Louvre  
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*Functionality –*

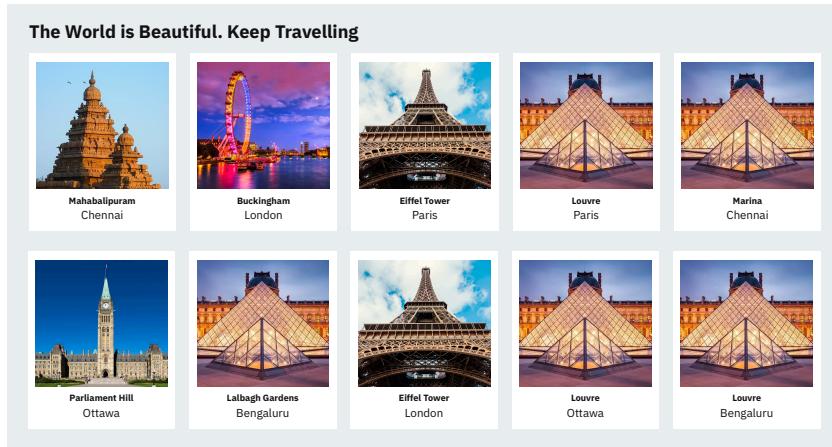
1. To display details about Selected Destination from *Container 1. Plan My Trip*.
2. On clicking Previous load the Previous City Destination. This is applicable only once for those cities which were loaded from Search Bar

*Note: This feature will be hidden during load.*

#### *Service Calls*

`getCityInformation(destinationCode)`  
`getTouristSpots(destinationCode)`

## 6. GLOBAL PROMOTION



*Functionality – To display top landmarks. This should happen on load and should not be rendered on subsequent calls.*

#### *Service Calls*

`getTouristSpots ('ALL')`

*Note : This Container is responsible for fetching the TouristSpots.*

## 7. HEADER

*Functionality*

1. Display Logo on the left.
2. For Prime Users, display Prime Badge near the logo.
3. Display Logged In User Name on right.
4. Display Session Time.
5. Based on Session Time, fetch EST and IST. Update it every minute.

#### *Service Calls*

`getWorldClocks()`

*For Prime User*

TRIPZONE pri+e	SESSION TIME 3 MIN	09 APR 20 - EST 09:30	09 APR 20 - IST 13:00	Hi, Nijin Vinodan
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*For Normal Users*

TRIPZONE	SESSION TIME 3 MIN	09 APR 20 - EST 09:30	09 APR 20 - IST 13:00	Hi, Nijin Vinodan
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**Fonts - IBM Plex Sans (Google Font)**