

**San Jose State**  
**University Fall 2017**



**KAYAK API DESIGN  
DOCUMENT**

CMPE 273 – Team 7

SUBMITTED BY:

Aditya Parmar

Dishant Kimtani

Meenakshi Parwani

Siddharth Suthar

Sunil Tiwari

SUBMITTED TO:

Prof. Simon Shim

## 1. User Management APIs

a. **Login API** - This will enable the user to login to the account.

Title	login
URL	/user/login
Method	POST
URL Params	NA
Data Params	<pre>{   username : String,   password : String }</pre>
Success Response	<pre>{   status : 200,   result: {     Message : "Logged In"   } }</pre>
Error Response	<pre>{   status : 401,   error: {     Message : "Login Unsuccessful"   } }</pre>

b. **Sign Up API** - This API will let the user signup and create their own account.

Title	signup
URL	/signup
Method	POST
URL Params	NA

Data Params	<pre>{   firstname: String,   lastname: String,   username: String,   password: String,   email: String,   address: String,   phone: Integer }</pre>
Success Response	<pre>{   status : 200,   result: {     Message : "Successfully Registered"   } }</pre>
Error Response	<pre>{   status : 401,   error: {     Message : "Error While Registration"   } }</pre>

**c. Update User API** - This API will let you update the user's information.

Title	update
URL	/user/update
Method	PUT
URL Params	{userid: String}
Data Params	<pre>{   firstname: String,   lastname: String,   username: String,   password: String,   email: String,   address: String, }</pre>

	<pre> phone: Integer } </pre>
Success Response	<pre> {   status : 200,   result: {     Message : "user updated"   } } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Update Unsuccessful"   } } </pre>

**d. User History API** - This API will let you update the user's information.

Title	UserHistory
URL	/user/history
Method	GET
URL Params	{type: String}
Data Params	NA
Success Response	<pre> {   status : 200,   history: Array } </pre>
Error Response	

	<pre>{   status : 401,   error: {     Message : "Update Unsuccessful"   } }</pre>
--	---

## 2. Flight APIS

a. **List flights** – list the flights matching the user entered criteria

Title	List flights
URL	/flight/list
Method	GET
URL Params	NA
Data Params	<pre>{   type: String (one-way/round-trip/multi-city)   source: String,   destination: String,   departure-date: Date,   return-date: Date,   cabin-class: String,   travelers: Array }</pre>
Success Response	<pre>{   status: 200,   result: {     flights: Array   } }</pre>
Error Response	<pre>{   status : 300,   error: {     Message : "No flights found"   } }</pre>

	<pre>         }     } </pre>
--	------------------------------

**b. Book Flight** – book the flight/flights selected by the user

Title	Book flight
URL	/flight/book
Method	POST
URL Params	NA
Data Params	<pre> {   type: String (one-way/round-trip/multi-city)   source: String,   destination: String,   departure-timestamp: TimeStamp,   return-timestamp: TimeStamp,   cabin-class: String,   travelers: Array } </pre>
Success Response	<pre> {   status: 200,   result: {     message: "Flight booked Successfully"     flights: Array   } } </pre>
Error Response	<pre> {   status : 300,   error: {     Message : "Flight not booked, Please try again"   } } </pre>

**c. Get Flights By Vendor** – get the flights from each vendor

Title	Get flights By Vendor
URL	/flight/getByVendor
Method	POST
URL Params	NA
Data Params	<pre>{   type: String (one-way/round-trip/multi-city)   source: String,   destination: String,   departure-date: Date,   return-date: Date,   cabin-class: String,   travelers: Array }</pre>
Success Response	<pre>{   status: 200,   result: {     flights: Array   } }</pre>
Error Response	<pre>{   status : 300,   error: {     Message : "No Flights for the specified vendor"   } }</pre>

**d. Cancel Flight** – cancel the flight selected by user if it satisfies the selected criteria

Title	Cancel the Flight
URL	/flight/cancel

Method	PUT
URL Params	NA
Data Params	<pre>{   booking-id: Number }</pre>
Success Response	<pre>{   status: 200,   result: {     message: "Flight cancelled Successfully"   } }</pre>
Error Response	<pre>{   status : 300,   error: {     Message : "Failed to cancel the flight"   } }</pre>

### 3. Car APIs

- a. **Search Cars API:** Avails search facility to the user for cars based on various parameters such as Type or Price

Title	Car Search
URL	/car/search
Method	POST
URL Params	NA
Data Params	NA



Success Response	<pre>{   status : 200,   result: {     [carID:123,     { Name: Toyota,       Model: Fortuner,       BookingDate:date,       isBooked:false     }   ],   [ carID:456,     { Name: Volkswagen,       Model: Golf,       BookingDate:date,       isBooked:false]   } ] }</pre>
Error Response	<pre>{   status : 401,   error: {     Message : "Search Unsuccessful"   } }</pre>

**b. Book Cars:** Avails booking facility to the user for cars.

Title	Book Cars
URL	/car/book
Method	POST
URL Params	NA
Data Params	<pre>{   carID:123,   {</pre>

	<pre> Name: Toyota, Model: Fortuner, bookingDate: 2<sup>nd</sup> Jan 2018, isBooked: false, bookingStartTime: Monday 6:00 pm, bookingEndTime: Monday 8:00 pm, pickup : Location paymentInfo : {     paymentMethod: Card,     amount: \$200 } } </pre>
Success Response	<pre> {   status : 200,   result: {     Message : "Flight Booked"   } } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Booking Unsuccessful"   } } </pre>

**c. Cancel Car Booking:** Let's user cancel an existing booking.

Title	Cancel Book
URL	/car/cancel
Method	DELETE
URL Params	NA
Data Params	<pre> {   carID: 123, </pre>

	<pre> Cancellation Reason : "Sorry, clash in time schedule" } </pre>
Success Response	<pre> {   status : 200,   result: {     Message : "Flight Canceled",     carID : 12345   } } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Cancellation unsuccessful"   } } </pre>

#### 4. Hotel APIs

##### a. Get Hotel Data

Title	Get Hotel Data
URL	/hotel
Method	POST
URL Params	null
Data Params	<pre> {   cityname:"String",   startdate:"String",   enddate:"String" } </pre>
Success Response	<pre> {   status: 200,   result: {     Message : "get hotel data successfully",     Hoteldata : [{       hotelId : 1, </pre>

	<pre> name : "hotelname", address: "address" city: "city", state: "state", zipcode: "zipcode", starts: "starts", rooms: {roomtype: "", prices: ""}, ratings: "", reviews: "" }} } } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Unsuccessful"   } } </pre>

#### b. Hotel Booking

Title	Hotel Booking
URL	/hotel/booking
Method	POST
URL Params	null
Data Params	<pre> {   userid: "userid"   Hoteldata : [{     hotelId : 1,     name : "hotelname",     address: "address",     city: "city",     state: "state",     zipcode: "zipcode",     starts: "starts",     rooms: {roomtype: "", prices: ""}, </pre>

	}
Success Response	{ status: 200, result: { Message : " hotel booking successfully", BookingID:"5EDWYHSKJK"  } }
Error Response	{ status : 401, error: { Message : "Unsuccessful" } }

c. Get Hotel Data from vender

Title	Get Hotel Data from vender
URL	/hotel/venderid
Method	POST
URL Params	null
Data Params	{ venderid:"int",  }
Success Response	{ status: 200, result: { Message : "get hotel data successfully", Hoteldata : [{ hotelId : 1, name : "hotelname", address:"address", city:"city", }

	<pre> state:"state", zipcode:"zipcode", starts:"starts", rooms:{roomtype:"","prices:""}, ratings:"", reviews:"" }} } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Unsuccessful"   } } </pre>

#### d. Cancel Hotel Booking

Title	Cancel Hotel Booking
URL	/hotel/cancelbooking
Method	POST
URL Params	null
Data Params	<pre> {   userid:"int",   bookingid:"int" } </pre>
Success Response	<pre> {   status: 200,   result: {     Message : "hotel booking cancel successfully",     BookingID:"5EDWYHSKJK"   } } </pre>
Error Response	

	<pre>{   status : 401,   error: {     Message : "Unsuccessful"   } }</pre>

## 5. Admin APIs

### a. Add Hotel/Flight/Car List API

**This API will be used to a new Vendor which will have a list of Hotels/Flights/Cars. It will be used to store End Point URL of the vendor which will be later used for getting a list of Hotels/Flights/Cars from their database.**

Title	Add Hotel/Flight/Car List
URL	/admin/addlist
Method	POST
URL Params	N/A
Data Params	<pre>{   VendorName: String,   VendorType: String (Hotel/Flight/Car),   Method: String,   VendorEndPoint: String }</pre>
Success Response	<pre>{   status : 200,</pre>

	<pre> result: {   Message : "Hotel List successfully added",   hotels: Array } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Error adding hotel list"   } } </pre>

- b. **Get Hotel/Flight/Car Vendors List API**  
This API will be used to get a list Hotel Vendors.

Title	Get Hotel/Flight/Car Vendor List
URL	/admin/getvendorlist
Method	GET
URL Params	{vendortype: String}
Data Params	N/A
Success Response	<pre> {   status : 200,   result: {     vendors: Array   } } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Error getting hotel/flight/car vendor list"   } } </pre>



c. **Edit Hotel/Flight/Car Vendors List API**

This API will be used to edit a Hotel/Flight/Car Vendor

Title	Edit Hotel/Flight/Car Vendor
URL	/admin/editvendorlist
Method	PUT
URL Params	{vendorid: String}
Data Params	{ VendorName: String, VendorType: String (Hotel/Flight/Car), Method: String, VendorEndPoint: String }
Success Response	{ status : 200, result: { { VendorName: String, VendorType: String (Hotel/Flight/Car), Method: String, VendorEndPoint: String } } }
Error Response	{ status : 401, error: { Message : "Error updating hotel/flight/car vendor list" } }

d. **Delete Hotel/Flight/Car Vendors List API**

This API will be used to delete a Hotel/Flight/Car Vendor.

Title	Delete Hotel/Flight/Car Vendor
URL	/admin/deletevendorlist
Method	DELETE
URL Params	{vendorid: String}
Data Params	N/A
Success Response	<pre>{   status : 200,   result: {     Message : "Hotel/flight/car vendor deleted successfully"   } }</pre>
Error Response	<pre>{   status : 401,   error: {     Message : "Error deleting hotel/flight/car vendor list"   } }</pre>

e. **Get user List API**

**This API will be used to get a list of Kayak Users.**

Title	Get User List
URL	/admin/getuserlist
Method	GET
URL Params	N/A
Data Params	N/A
Success Response	<pre>{   status : 200,</pre>

	<pre> result: {   users: Array } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Error getting user list"   } } </pre>

**f. Delete user account API**

**This API will be used to delete a user account.**

Title	Edit Hotel/Flight/Car Vendor
URL	/admin/deleteuser
Method	DELETE
URL Params	{userid: String}
Data Params	N/A
Success Response	<pre> {   status : 200,   result: {     Message : "User deleted successfully"   } } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Error deleting user"   } } </pre>

**g. Get bills list API**

**This API will be used to get a list of bills.**

Title	Get bills list
URL	/admin/getbilllist
Method	GET
URL Params	N/A
Data Params	N/A
Success Response	<pre>{   status : 200,   result: {     bills: Array   } }</pre>
Error Response	<pre>{   status : 401,   error: {     Message : "Error getting bill list"   } }</pre>

#### h. Get bill list by date API

This API will be used to get a list of bills for a particular date.

Title	Get Bill List by date
URL	/admin/getbilllistbydate
Method	GET
URL Params	{date: DATE}
Data Params	N/A
Success Response	<pre>{   status : 200,   result: {     bills: Array   } }</pre>

	<pre>         }       } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Error getting bill list"   } } </pre>

#### I. Get bill list by month API

This API will be used to get a list of bills for a particular month.

Title	Get Bill List by month
URL	/admin/getbilllistbymonth
Method	GET
URL Params	{month: String}
Data Params	N/A
Success Response	<pre> {   status : 200,   result: {     bills: Array   } } </pre>
Error Response	<pre> {   status : 401,   error: {     Message : "Error getting bill list"   } } </pre>