**Admin Web API**

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| **S/N** | **URL** | **HTTP Method** | **POST Body** | **Result** | **Remarks** |
| 1 | admin/login | GET | JSON String of admin info (email, password) | **On Success:**  Retrieve JWT token  **On Failure:**  Error 401 Unauthorized access msg |  |
| 2 | admin/register | POST | JSON String of admin info (email,  name, password) | **On Success:**  Retrieve JWT token  **On Failure:**  Error 401 Unauthorized access msg |  |
| 2 | admin/addListing | POST | JSON String of travel listing (All listing fields) | **On Success:**  Insert new listing  **On Failure:**   * Duplicate entry message, name as UQ * Error 401: Unauthorized access * Error 500: No JWT Entered | Requires JWT Token input |
| 3 | admin/updateListing | PUT | JSON String of travel listing (Title, Any other listing fields to be updated) | **On Success:**  Update existing listing  **On Failure:**   * No listing with matching title = Error 204: No Entry Found * Error 500: No JWT Entered * Error 401: Unauthorized access | Requires JWT Token input |
| 4 | admin/addItinerary | POST | JSON String of Itinerary (travelID, day, activity) | **On Success:**  Insert new Day Itinerary  **On Failure:**   * Duplicate entry message, day as UQ * Error 500: No such travelID * Error 500: No JWT Entered * Error 401: Unauthorized access | Requires JWT Token input |
| 5 | admin/rmItinerary | DELETE | JSON String of Itinerary (travelID, day) | **On Success:**  Remove Day Itinerary  **On Failure:**   * Error 204: No valid entry found if invalid day or travelID * Error 500: No JWT Entered * Error 401: Unauthorized access | Requires JWT Token input |
| 6 | admin/updateItinerary/:itineraryID | PUT | JSON String of itinerary (day,activity,travelID) | **On Success:**  Update existing itinerary  **On Failure:**   * Error 1452: Invalid travelID not found in travel\_listing * Error 204: No valid entry found with input itineraryID * Error 500: No JWT Entered * Error 401: Unauthorized access | Requires JWT Token input |
| 7 | admin/rmListing/:listingID | DELETE | - | **On Success:**  Listing and all related with listingID as foreign keyItinerary deleted  **On Failure:**   * Error 204: No valid entry found if invalid day or travelID * Error 500: No JWT Entered * Error 401: Unauthorized access | Requires JWT Token input |

**Public Web API**

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| **S/N** | **URL** | **HTTP Method** | **POST Body** | **Result** |
| 1 | public/getListings | GET | NIL | Returns all listings (if any) |
| 2 | public/getListingBySSorCountry | GET | JSON String (substring, Country) | Returns all listings (if any) with substring or country sorted in ascending price order |
| 3 | public/getItinerary/:travelID | GET | NIL | Returns all listings (if any) related to specified travelID |

**Assignment 1:**

The following admin web API functionalities are implemented:

* Verify admin’s credentials using email and password
* Register admin.
* Add new travel listings
* Add new itinerary(per day basis) for a travel listing, since a travel tour package might involve multiple days.

The following public web API functionalities are implemented:

* Retrieve all travel listings
* Retrieve travel listings based on substring of description OR country, sorted in ascending price.
* Retrieve itineraries for a particular travel listing (based on travel listing id)

The following additional features are implemented:

* [PUT] Admin to be able to modify existing travel listing (travel\_listing title is set to UQ)
  + getListingByTitle implemented in travelListing.js
  + If POST body contains info to update, make modifications. If not use value from existing entry.
* [DELETE] Remove itinerary given travelID and day info
* Backup of travel listing record info to database or log file before updating