Method: POST   **API:** /accommodation

Description: Post a new accommodation listing. **e.g. input:** availability_365: 355, calculated_host_listings_count: 9, neighbourhood: Tampines, neighbourhood_group: East Region, ….., number_of_reviews: 22, price: 94, reviews_per_month: 0.22, room_type: Private room. **e.g. output:** Successful

Method: GET   **API:** /accommodation/{id}

Description: Return recommendations, nearby train stations and nearby Michelin restaurants according to the room id. **e.g. input:** room id: 5. **e.g. output:** {mi_listing: [nearby Michelin restaurants], recommendation: [rooms], single_detail: information of the chosen room, st_listing:[nearby train stations]}

Method: PUT   **API:** /accommodation/{id}

Description: Modify an accommodation listing. **e.g. input:** availability_365: 355,..., neighbourhood: Tampines, neighbourhood_group: East Region, price: 94, room_type: Private room. **e.g. output:** Successful

Method: DELETE   **API:** /accommodation/{id}

Description: Remove an accommodation. **e.g. input:** room id: 5 **e.g. output:** Successful

Method: GET   **API:** /accommodation/{id}/details

Description: Return the details of the room according to its id. **e.g. input:** id:1 **e.g. output:** record: {availability_365: 353, calculated_host_listings_count: 9, host_id: 367042, host_name: Belinda, …, room_type: Private room

Method: GET   **API:** /book

Description: Get all the bookings of the current user. **e.g. output:** booking=[…]

Method: POST   **API:** /book/{id}

Description: Book an accomodation. **e.g. input:** start_date: 2019-07-01, end_date: 2019-07-08. **e.g. output:** Booking Created

Method: DELETE   **API:** /book/{id}

Description: Cancel a booking using the booking id. **e.g. input:** booking id: 460 **e.g. output:** Booking Removed

Method: GET   **API:** /owner/bookings

Description: Get all of owner's bookings. **e.g. output:** booking:[…]

Method: DELETE   **API:** /owner/bookings/{id}

Description: Let owner cancel a booking with listing_id. **e.g. input:** booking id: 460 **e.g. output:** Booking deleted

Method: PUT   **API:** /priceadvice

Description: Provide price suggestions according to host's room information. You can leave the geo-location empty if you don't know. Blank input will be replaced by default values. **e.g. input:** name: 'clean rooms', area:'Queenstown', latitude:'',..., availability_365:365 **e.g. output:** message: 'suggested price range:', price_range_lower: 65, price_range_upper: 95

Method: POST   **API:** /search

Description: Search for the room you are interested, you can leave the box empty if you like. If user add station field, the backend will return the room which have that station name nearby **e.g. input:** location:'Central Region', area: 'Queenstown', …, end_date:'',price_1:10, price_2:200,station:''. **e.g. output:** [rooms]

Method: GET   **API:** /statistics

Description: Get all user search records, requires admin access. **e.g. output:** users: {area: b, end_date: 2021-01-01, guest: …}

Method: GET   **API:** /subscribe/{public_id}

Description: Let a user subscribe to another user with public_id. **e.g. input:** public_id: e1132e1b-5c8a-021 **e.g. output:** Successful

Method: GET   **API:** /token

Description: Log in with the generated authentication token. Please login using your username and password and get the token. **e.g. input:** username:'testuser', password:'123456' **e.g. output:** token:eyJ0JhbGciOiJIUzI1NiJ9

Method: GET   **API:** /unsubscribe/{public_id}

Description: Unsubscribe from another user with public_id. **e.g. input:** public_id: e1132e1b-ac8a-021 **e.g. output:** Successful

Method: GET   **API:** /user/{public_id}

Description: Get a single user according to his/her public_id, requires admin access. The input is the user's public id **e.g. input:** public_id: e18a-021 **e.g. output:** users:[admin:true, name:admin, password:sha2R3h$ff1, publid_id:e1132e1a-021]

Method: POST   **API:** /user_register

Description: User registration. Please enter your username and password. **e.g. input:** username: 'testuser', password:'123456'. **e.g. output:** message: User successfully registered

Method: GET   **API:** /user_list

Description: Get all the registered users, requires admin access. **e.g. output:** users:[admin:true, name:admin, password:sha256$bcc4a0e16, publid_id:e1132e1b-021]

* We are sorry about the bad formatting.