# API calls

API CALL 1

**Description:** Return back the list of hotels, same list irrespective of dates selected.  
  
**Method: GET**

**Function name:** hotelList

**Deploy url:** <http://a00445457hotelreservation-env.eba-ymyy8p6r.us-east-1.elasticbeanstalk.com/hotellist>

**Local test url:** localhost:8080/hotellist

**Input Parameter**: Nothing

**Response:**

{

‘hotels\_list’: [

{ “hid”:<int>,

“hotel\_name”: <string>,

“price” : <Int>,

“availability” : <bool>

},

{…..},

{…..},

{…..}

]

}

**Response example:**

|  |
| --- |
| {      "hotels\_list": [          {              "hid": 1,              "hotel\_name": "Holiday Inn",              "price": 375,              "availability": **true**          },          {              "hid": 2,              "hotel\_name": "Hilton Season Inn",              "price": 250,              "availability": **false**          },          {              "hid": 3,              "hotel\_name": "Saint Lawrence Residences and Suites",              "price": 435,              "availability": **true**          },          {              "hid": 4,              "hotel\_name": "Staybridge Suites",              "price": 340,              "availability": **true**          },          {              "hid": 5,              "hotel\_name": "Embassy Suites by Hilton",              "price": 550,              "availability": **false**          },          {              "hid": 6,              "hotel\_name": "Fairmont Royal York",              "price": 475,              "availability": **false**          }      ]  } |

## API CALL 2

**Description**: If reservation success, return back the reservation number. Otherwise, return error message.

**Method: POST**

**Function name:** reservationConfirmation

**Deploy url:** <http://a00445457hotelreservation-env.eba-ymyy8p6r.us-east-1.elasticbeanstalk.com/reservation>

**Local test url:** localhost:8080/ reservation  
  
**Input Parameter:**

{

“hotel\_name”: <string>,

“checkin”: <Date>,

“checkout”: <Date>,

“guests\_list”: [

{ “guest\_name” : <string>,

“gender”: <string>,

“age”: <int>

},

{……},

{……}

]

}

**Input example:**

|  |
| --- |
| { "hotel\_name": "Holiday Inn",     "checkin": "2021-01-03",     "checkout": "2021-02-02",      "guest\_list": [             { "firstName" : "Wenshuo",                "lastName" : "Li",                "gender": "MALE",                "age":28             },             { "firstName" : "James",                "lastName" : "Bonde",                "gender": "MALE",                "age":45             }         ]  } |

**Response:**

{

“confirmation\_number” : **<string>**

}

**Response example:**

|  |
| --- |
| //successful reservation return  {      "confirmation\_number": "281225"  }  //invalid reservation return  {      "error\_msg": "Invalid check in(out) date, please check and try again."  }  {      "error\_msg": "Empty guest information, please check and try again."  }  {      "error\_msg": "Empty hotel name, please check and try again."  }  {      "error\_msg": "Empty check in(out) date, please check and try again."  } |

## API CALL 3

## 

**Description**: Return back the list of available hotels, same list irrespective of dates selected.

**Method: GET**

**Function name:** availableHotelList  
  
**Input Parameter**: Nothing

**Deploy url:** <http://a00445457hotelreservation-env.eba-ymyy8p6r.us-east-1.elasticbeanstalk.com/availablehotel>

**Local test url:** localhost:8080/availablehotel

**Response:**

{

‘hotels\_list’: [

{ “hid”:<int>,

“hotel\_name”: <string>,

“price” : <Int>,

“availability” : <bool>

},

{…..},

{…..},

{…..}

]

}

Response example:

|  |
| --- |
| {      "hotels\_list": [          {              "hid": 1,              "hotel\_name": "Holiday Inn",              "price": 375,              "availability": **true**          },          {              "hid": 3,              "hotel\_name": "Saint Lawrence Residences and Suites",              "price": 435,              "availability": **true**          },          {              "hid": 4,              "hotel\_name": "Staybridge Suites",              "price": 340,              "availability": **true**          }      ]  } |

## API CALL 4

## 

**Description**: Return back the list of available hotels, same list irrespective of dates selected.

**Method: GET**

**Function name:** guestsList  
  
**Input Parameter**: Nothing

**Deploy url:** <http://a00445457hotelreservation-env.eba-ymyy8p6r.us-east-1.elasticbeanstalk.com/guestslist>

**Local test url:** localhost:8080/guestslist

**Response:**

{

‘guests\_list’: [

{ “gid”:<int>,

“firstName”: <string>,

“lastName”: <string>,

“price” : <Int>,

“availability” : <bool>

},

{…..},

{…..},

{…..}

]

}

Response example:

|  |
| --- |
| {      "guests\_list": [          {              "gid": 1,              "firstName": "Lokesh",              "lastName": "Gupta",              "age": 27,              "gender": "male"          },          {              "gid": 2,              "firstName": "Deja",              "lastName": "Vu",              "age": 35,              "gender": "female"          },          {              "gid": 3,              "firstName": "Caption",              "lastName": "America",              "age": 18,              "gender": "undefined"          },          {              "gid": 4,              "firstName": "Wenshuo",              "lastName": "Li",              "age": 27,              "gender": "male"          },          {              "gid": 5,              "firstName": "Tim",              "lastName": "Horton",              "age": 35,              "gender": "female"          },          {              "gid": 6,              "firstName": "James",              "lastName": "Bone",              "age": 18,              "gender": "undefined"          }      ]  } |

## API CALL 5

## 

**Description**: Return back the list of reservation.

**Method: GET**

**Function name:** reservationList

**Input Parameter**: Nothing

**Deploy url:** <http://a00445457hotelreservation-env.eba-ymyy8p6r.us-east-1.elasticbeanstalk.com/reservationlist>

**Local test url:** localhost:8080/reservationlist

**Response:**

{

‘reservations\_list’: [

{ “rid”:<int>,

“hotel\_name”: <string>,

“checkin”: <Date>,

“checkin”: <Date>,

“guests\_list”: [

{

“gid”:<int>,

“firstName”: <string>,

“lastName”: <string>,

“price” : <Int>,

“availability” : <bool>

},

{…..},

{…..},

{…..}

]

},

{…..},

{…..},

{…..}

]

}

Response example:

|  |
| --- |
| {      "reservations\_list": [          {              "rid": 1,              "hotel\_name": "Staybridge Suites",              "checkin": "2021-05-06",              "checkout": "2021-05-07",              "guest\_list": [                  {                      "gid": 1,                      "firstName": "Lokesh",                      "lastName": "Gupta",                      "age": 27,                      "gender": "male"                  },                  {                      "gid": 2,                      "firstName": "Deja",                      "lastName": "Vu",                      "age": 35,                      "gender": "female"                  }              ],              "confirm": "123456"          },          {              "rid": 2,              "hotel\_name": "Embassy Suites by Hilton",              "checkin": "2021-05-03",              "checkout": "2021-06-06",              "guest\_list": [                  {                      "gid": 3,                      "firstName": "Caption",                      "lastName": "America",                      "age": 18,                      "gender": "undefined"                  }              ],              "confirm": "233456"          },          {              "rid": 3,              "hotel\_name": "Fairmont Royal York",              "checkin": "2021-05-01",              "checkout": "2021-05-10",              "guest\_list": [                  {                      "gid": 4,                      "firstName": "Wenshuo",                      "lastName": "Li",                      "age": 27,                      "gender": "male"                  }              ],              "confirm": "546897"          }      ]  } |

## API CALL 6

## 

**Description**: Return back the list of reservation by querying name.

**Method: GET**

**Function name:** getReservationListByGuest  
  
**Input Parameter:**

{

“firstName”: <string>,

“lastName”: <string>

}

**Deploy url:** <http://a00445457hotelreservation-env.eba-ymyy8p6r.us-east-1.elasticbeanstalk.com/reservationlistbyname>

**Local test url:** localhost:8080/reservationlistbyname

**Response:**

{

‘reservations\_list’: [

{ “rid”:<int>,

“hotel\_name”: <string>,

“checkin”: <Date>,

“checkin”: <Date>,

“guests\_list”: [

{

“gid”:<int>,

“firstName”: <string>,

“lastName”: <string>,

“price” : <Int>,

“availability” : <bool>

},

{…..},

{…..},

{…..}

]

},

{…..},

{…..},

{…..}

]

}

Response example:

|  |
| --- |
| {      "reservations\_list": [          {              "rid": 3,              "hotel\_name": "Fairmont Royal York",              "checkin": "2021-05-01",              "checkout": "2021-05-10",              "guest\_list": [                  {                      "gid": 4,                      "firstName": "Wenshuo",                      "lastName": "Li",                      "age": 27,                      "gender": "male"                  }              ],              "confirm": "546897"          },          {              "rid": 4,              "hotel\_name": "Holiday Inn",              "checkin": "2020-11-27",              "checkout": "2021-02-01",              "guest\_list": [                  {                      "gid": 4,                      "firstName": "Wenshuo",                      "lastName": "Li",                      "age": 27,                      "gender": "male"                  },                  {                      "gid": 7,                      "firstName": "James",                      "lastName": "Bonde",                      "age": 45,                      "gender": "MALE"                  }              ],              "confirm": "281225"          }      ]  } |