Desk Booking REST API Documentation

Introduction

This document provides an explanation of how to use the Desk Booking REST API. It also includes information about authentication.

Request Structure

The requests for this API must use x-www-form-urlencoded requests. The authentication token is passed in the x-access-token header.

Route Index

See below a list of the routes for the REST API:

```
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```

Authentication

The API uses a token-based authentication. Tokens are requested using api/login, and then the returned token should be included in the x-access-token header on subsequent API requests.

The token will expire after 1 hour. After this happens, any requests that require a token will return the following:

```
{
  "error": "Token expired",
  "userMessage": "Sorry, you need to log in again to access this page."
}
```

Routes

/api/login

Access: All

Token Required: No

Methods:

Т	Authenticates the user using the provided credentials and returns an access token for the user. Request form paramaters		
	email	The email of the user who is authenticating	
	passwor	The user's password ("access code")	
	Example output		
	"access_token": "VDh4MWQ4d0dyRFJ2dzJSaFJkS3REM2FRZXQ4PU9xaWnVmFi0WUzY 2U30WI5M2MzZTQyMzc0ZDdiNjM0ZWI1NmI2MWJkNWU0NGIyZmU4NT g4OTczMWNkMzY5YWY0NjM0NjE3NjYxNWRiMDU5MTcw0WZhZTQwZD		
	1 1	2YwMTg1M2VjZDk4MDQxOGE0YWlxYzQyOTY3ZDljYTUzY2Ez AxZjRlM2YwZWRmZWMyYmY3OTdiMWNjNzRiZmEwZWJlMQ="	

/api/bookings

Access: All

Token Required: No

/api/bookings/all

Access: All

Token Required: No

Methods

/api/bookings/active

Access: All

Token Required: No

/api/bookings/create

Access: All

Token Required: Yes

Methods

POST

Creates a new booking for the currently logged in user. The user must be logged in to make this call.

Request form paramaters

start	The time (in ms) of the start of the project
	All times in this database are measured from 01 Jan 1970 00:00:00 UTC
end	The time (in ms) of the end of the project
projectName	The name of the project
projectType	The type of the project
seats	An array of strings containing the IDs of the seats in the bookings

Example output (success)

```
{
    "message": "Booking created!"
}
```

Example output (failure)

This shows a list of seats that were in the booking which was attempted which are unavilable.

/api/bookings/:id

Access:

GET: All

PUT/DELETE: Admin or owner

Token Required:

GET: No

PUT/DELETE: Yes

```
GET
           Returns the booking associated with the given ID
           Request form paramaters
           None
           Example output
                  " id": "540728263dde3d0c0d8147fb",
                  "userld": "5405e74d7f208e620b6b60ec",
                  "projectName": "Microsite", 
"projectType": "Torture",
                  "start": "2014-01-01T00:00:00.000Z",
                  "end": "2014-02-01T00:00:00.000Z"
               }
PUT
           Updates the booking with new information
           Request form paramaters
                              The time (in ms) of the start of the project
            start
                              The time (in ms) of the end of the project
            projectName
                              The name of the project
                              The type of the project
            projectType
           Example output
               "message": "Booking updated!"
DELETE
           Deletes the booking
           Request form paramaters
           None
           Example output
               "message": "Booking deleted!"
```

/api/bookings/:id/user

Access: Admin or Owner

Token Required: Yes

```
GET
             Gets the user who owns the booking
             Request form paramaters
             None
             Example output
                     "__v": 8,
"_id": "5405e74d7f208e620b6b60ec",
                     "bookingDays": 0,
                     "bookings": {
    "_id": "540728263dde3d0c0d8147fb",
    "end": "1970-01-01T00:00:00.003Z",
                         "start": "1970-01-01T00:00:00.003Z",
                         "projectType": "PO Microsite",
"projectName": "Chargable",
                         "seats": [
                            "53ff22280c6a49d9aa78f7e4",
                            "53ff222f0c6a49d9aa78f7e5", "53ff22b50c6a49d9aa78f7e6"
                         ]
                     "bookingsTotal": 5,
"email": "ilabs@uk.ibm.com",
"fname": "Interactive",
                      "isAdmin": true,
                      "Iname": "Labs"
                      "password": "d28f3eb1",
"requests": [
                            "_id": "54072a7a0ed461980d2155bd",
                            "accepted": false,
"completed": false,
                            "created": "2014-09-03T14:49:30.803Z"
                         }
                      "requestsTotal": 1
                  }
```

/api/bookings/:id/seats

Access: All

Token Required: No

```
GET
           Array of seat information related to the given booking
           Request form paramaters
           None
           Example output
              "__v": 0,
"_id": "53ff22280c6a49d9aa78f7e4",
"seatNo": 0,
                    "specs": {
    "smartScreen": true,
                      "imac": true,
"display": false
                    "maxPeople": 1,
                    "type": "
                    "seatNo": 1,
                    "_id": "53ff222f0c6a49d9aa78f7e5",
"__v": 0,
                    "specs": {
                       "smartScreen": true,
                       "imac": true,
                       "display": false
                    "maxPeople": 1,
                    "type": "Desk"
                    "_id": "53ff22b50c6a49d9aa78f7e6",
                    "seatNo": 2,
                    "__v": 0,
"specs": {
                       "smartScreen": true,
                       "imac": true,
                       "display": true
                    "maxPeople": 10,
                    "type": "Desk"
              ]
```

/api/bookings/between/:date1/:date2/

Access: All

Token Required: No

Methods

/api/bookings/between/:date1/:date2/seats

Access: All

Token Required: No

```
GET
          Gets a list of all seats that are contained within bookings between the given
          dates
          Request form paramaters
          None
          Example output
              "user": "5405e74d7f208e620b6b60ec",
              "seats": [
                   "_id": "53ff22b50c6a49d9aa78f7e6",
                   "seatNo": 2,
                   "__v": 0,
                   "specs": {
                     "smartScreen": true,
                     "imac": true,
                     "display": true
                   "maxPeople": 10,
                   "type": "Desk"
             ]
```

/api/bookings/between/:date1/:date2/users

Access: Admin

Token Required: Yes

```
GET
            Gets a list of all users who have bookings between the given dates
            Request form paramaters
            None
            Example output
                   "__v": 8,
"_id": "5405e74d7f208e620b6b60ec",
                   "bookingDays": 0,
                    "bookings": {
    "_id": "540733bdde3c15ef0ec0954c",
    "end": "1970-01-01T00:00:00.000Z",
                      "start": "1970-01-01T00:00:00.000Z",
                       "seats": []
                    "bookingsTotal": 5,
                   "email": "ilabs@uk.ibm.com",
"fname": "Interactive",
"isAdmin": true,
"Iname": "Labs",
                    "password": "d28f3eb1",
                    "requests": [
                          "_id": "54072a7a0ed461980d2155bd",
                          "accepted": false,
                          "completed": false,
                          "created": "2014-09-03T14:49:30.803Z"
                    "requestsTotal": 1
                }
```

/api/users

Access: Admin

Token Required: Yes

```
GET
             Gets a list of all users
             Request form paramaters
             None
             Example output
                    "__v": 8,
"_id": "5405e74d7f208e620b6b60ec",
                     "bookingDays": 0,
                     "bookings": {
    "_id": "540733bdde3c15ef0ec0954c",
    "end": "1970-01-01T00:00:00.000Z",
                        "start": "1970-01-01T00:00:00.000Z",
                        "seats": []
                     "bookingsTotal": 5,
                     "email": "ilabs@uk.ibm.com",
"fname": "Interactive",
"isAdmin": true,
"Iname": "Labs",
                     "password": "d28f3eb1",
                     "requests": [
                        {
                           "_id": "54072a7a0ed461980d2155bd",
                           "accepted": false,
                           "completed": false,
"created": "2014-09-03T14:49:30.803Z"
                     "requestsTotal": 1
                 }
```

/api/users/create

Access: All

Token Required: No

ST C	Creates a new user				
F	Request form paramaters				
	fname	The user's first name			
	Iname	The user's last name			
	em ail	The user's email address			
	Example output				
	"bookingE "bookings "_id": "{ "end": ' "seats" }, "bookings "email": "i "fname": ' "isAdmin" "lname": ' "password "requests { id" "accc "com	": { 540733bdde3c15ef0ec0954c", '1970-01-01T00:00:00.000Z", "1970-01-01T00:00:00.000Z", : [] Total": 5, labs@uk.ibm.com", 'Interactive", : true, 'Labs", d1: "d28f3eb1", ": [: "54072a7a0ed461980d2155bd", epted": false, upleted": false, upleted": "2014-09-03T14:49:30.803Z"			

/api/users/:id

Access:

GET/DELETE: Admin or Owner

PUT: Admin

Token Required: Yes

```
GET
           Gets a specific user
           Request form paramaters
           None
           Example output
               "__v": 6,
"_id": "5405eb1caa6175490c7a001c",
               "bookingDays": 0,
               "bookingsTotal": 2,
"password": "b4c65560",
"requestsTotal": 1,
               "requests": [],
"bookings": [],
"isAdmin": false,
               "email": "karltay7@uk.ibm.com",
"Iname": "Taylor",
               "fname": "Karl"
PUT
           Modify the specified user
           Request form paramaters
                                    The user's first name
            fname
            Iname
                                    The user's last name
             em ail
                                    The user's email address
            isAdmin
                                    To set the user as an admin set this to 'true'. To
                                    remove a user's admin rights, set this to 'false'.
                                    * [Security] The user's admin rights are stored in their
                                    token after login, and they are not checked by the
                                    server until the token expires. This means if an admin
                                    has been issued a token before their admin rights are
                                    removed, they will still have access to the system
                                    (through their token) until it expires.
           Example output
               "message": "User updated!"
```

```
DELETE Deletes the specified user

Request form paramaters
None

Example output

{
    "message": "Successfully deleted!"
}
```

/api/users/:id/bookings

Access: Admin or Owner

Token Required: Yes

/api/users/:id/requests

Access: Admin or Owner

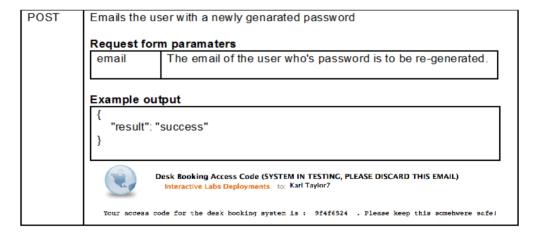
Token Required: Yes

Methods

/api/users/newPassword

Access: All

Token Required: No



/api/seats

Access: All

Token Required: No

```
GET
             Gets a list of seats
             Request form paramaters
             None
             Example output
                    "__v": 0,
"_id": "53ff22280c6a49d9aa78f7e4",
                    "seatNo": 0,
                    "specs": {
    "smartScreen": true,
                       "imac": true,
                       "display": false
                    },
"maxPeople": 1,
                    "type": ""
                    "seatNo": 1,
                    "_id": "53ff222f0c6a49d9aa78f7e5",
"__v": 0,
                    "specs": {
    "smartScreen": true,
                       "imac": true,
                       "display": false
                    },
"maxPeople": 1,
" "Dock"
                    "type": "Desk"
                    "_id": "53ff22b50c6a49d9aa78f7e6",
                    "seatNo": 2,
                     "__v": 0,
                    "specs": {
    "smartScreen": true,
                       "imac": true,
                       "display": true
                    },
"maxPeople": 10,
                    "type": "Desk"
```

/api/seats/create

Access: Admin

Token Required: Yes

T Creates a new	Creates a new seat			
Request form	Request form paramaters			
seatNo	The seat number			
type	The seat type			
maxPeople	The maximum number of people			
specs	JSON object representing the specs of the seat e.g. {"imac": false, "smartScreen": true, "display": false}			
Example outpu	ıt			
"v": 0, "seatNo": 1	•			
"seatNo": 1 "_id": "5408 "specs": {	3390cbe4c32cb048a3ab2", creen": true, alse,			

/api/seats/:id

Access: GET: All

PUT/DELETE: Admin

Token Required: GET: No

PUT/DELETE: Yes

```
GET
           Returns the seat associated with the given ID
           Request form paramaters
           None
           Example output
               "seatNo": 10,
              "_id": "5408390cbe4c32cb048a3ab2",
"__v": 0,
               "specs": {
                 "smartScreen": true,
                 "imac": false,
                 "display": false
               },
"maxPeople": 5,
               "type": "Burger"
PUT
           Updates the seat with new information
           Request form paramaters
            seatNo
                              The seat number
            type
                              The seat type
            maxPeople
                              The maximum number of people
                              JSON object representing the specs of the seat
            specs
           Example output
               "message": "Seat updated!"
DELETE
          Deletes the seat
           Request form paramaters
           None
           Example output
               "message": "Successfully deleted"
```

/api/requests

Access: Admin

Token Required: Yes

Methods

```
GET
           Gets a list of active special requests
           Request form paramaters
           None
           Example output
                 " id": "5408345e9d72877503f293c7",
                 "userld": "5405e74d7f208e620b6b60ec",
                 "businessNeed": "Supporting a bid",
                 "description": "Post Office Microsite doesn't work in IE - need urgent
            space for a team of 50 developers to get it working",
                 "start": "2014-09-04T09:42:12.982Z", 
"end": "2014-09-08T23:00:00.000Z",
                 "created": "2014-09-04T09:43:58.505Z",
                  "completed": false,
                  "accepted": false
              }
            ]
```

/api/requests/all

Access: Admin

Token Required: Yes

```
GET
           Gets a list of all special requests (regardless of completed status)
           Request form paramaters
           None
           Example output
                 " id": "5408345e9d72877503f293c7",
                 "userId": "5405e74d7f208e620b6b60ec",
                 "businessNeed": "Supporting a bid",
                 "description": "Post Office Microsite doesn't work in IE - need urgent
            space for a team of 50 developers to get it working",
                 "start": "2014-09-04T09:42:12.982Z"
"end": "2014-09-08T23:00:00.000Z",
                 "created": "2014-09-04T09:43:58.505Z",
                 "completed": false,
                 "accepted": false
              }
            1
```

/api/requests/create

Access: All

Token Required: Yes

POST	Creates a new request and notifies the ilabs@uk.ibm.com email address.				
	Request form paramaters				
	start	The start date of the request			
	end	The end date of the request			
	description	A description of the nature of the request			
	businessNeed	The justification for making the request from a business need perspective			
	numberOfSeats	The number of seats required			
	Example output				
	"message": "Ro	equest created!"			

/api/requests/:id

Access: Admin

Token Required: Yes

	Request form paramaters					
	start	The start date of the request				
	end	The end date of the request				
	description	A description of the nature of the request				
	businessNeed	The justification for making the request from a business need perspective				
	numberOfSeats	The number of seats required				
	accepted	True/False - indicates that an admin has accepted the request				
	completed	True/False - indicates that the request has been completed or resolved with the user.				
	Example output					
	{ "message": "Request updated!" }					
DELETE	Deletes the request					
	Request form paramaters None					
	Example output					
	{ "message": "Successfully deleted" }					

/api/projects/

Access: All

Token Required: No

Methods

/api/projects/active

Access: All

Token Required: No