API Reference

ICBC Flex Work, by Team Flex

API Version: 1.0.0

ICBC Flex Work REST Back End, End Points for Employee and Admin Use Cases

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API

1. ADMIN

As an ICBC facility admin, manage locations and floor plans, workspace features, and more

1.1 POST /admin/upload-floor-data

Upload a CSV of a floor's workspaces

Upload a CSV containing information about each workspace on a floor (owner and features)

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
floorId	integer	
floorData	string(binary)	

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Something went wrong

RESPONSE MODEL - text/plain

```
string
```

1.2 POST /admin/upload-floorplan-image

Upload a JPG floor plan for a specific floor

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
floorId	integer	
floorplanImage	string(binary)	

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Something went wrong

RESPONSE MODEL - text/plain

```
string
```

1.3 POST /admin/login

Login to admin portal

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
password	string	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
{
  message  string
  token    string
}
```

STATUS CODE - 403: Forbidden

RESPONSE MODEL - text/plain

```
string
```

1.4 GET /admin/locations

A list of all the location names

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[string]
```

1.5 POST /admin/locations

Add a location

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
locationName	string	

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Empty String, All Whitespaces, or Duplicate Name

RESPONSE MODEL - text/plain

```
string
```

1.6 DELETE /admin/locations

Delete a location

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*locationName	string	Location Name

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request

RESPONSE MODEL - text/plain

```
string
```

1.7 GET /admin/floors

Gets list of floors

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*city	string	City Name

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[string]
```

1.8 PUT /admin/floors

Updates a floor

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
floorId	integer	
floorNo	integer	
building	string	
city	string	
location	string	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
{
  floorId integer
}
```

STATUS CODE - 400: Bad Request

RESPONSE MODEL - text/plain

```
string
```

1.9 POST /admin/floors

Adds a new floor

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
floorNo	integer	
building	string	
city	string	
location	string	
floorplanImage	string(binary)	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
{
  floorId integer
}
```

1.10 DELETE /admin/floors/{id}

Delete a Floor

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	integer	Floor Id

RESPONSE

STATUS CODE - 200: Successful Operation

1.11 GET /admin/workspaces/{floorId}

Gets list of workspaces

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*floorId	integer	Floor Id

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

[{
Array of object:
}]

1.12 DELETE /admin/deleteWorkspace/{id}

Delete a Workspace

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Workspace Id

RESPONSE

STATUS CODE - 200: Successful Operation

1.13 PUT /admin/workspaces/{id}

Updates a workspace

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Workspace Id

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
email	string	

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 403: Bad Request

RESPONSE MODEL - text/plain

```
string
```

1.14 POST /admin/workspacefeature/add

Add a workspace feature

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
workspaceId	string	
featureName	string	

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request

RESPONSE MODEL - text/plain

```
string
```

1.15 POST /admin/workspacefeature/delete

Delete a workspace feature

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
workspaceId	string	
featureName	string	

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request

RESPONSE MODEL - text/plain

```
string
```

1.16 POST /admin/reset-features

Resets the list of features to a custom specified list

Sets the list of features in the system. Previous features that do not exist in this list are deleted, and new features are added. Does not affect features that exist both previously and in this list

REQUEST

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request

2. OFFICEBOOKING

As an ICBC employee, make a Booking on an office in any ICBC location

2.1 GET /floors

Get either floor information of all floors, floorId, or by location

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
floorId	number	
location	string	

RESPONSE

STATUS CODE - 200: Successful Operation

2.2 GET /features

Get features by availabilityId, workspaceId, or all features if no params

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
availabilityId	number	
workspaceId	string	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[string]
```

2.3 GET /locations

A list of all the location names

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[string]
```

2.4 GET /packages

Finds Availabilities or Booking Suggestion Packages

Finds Availabilities, filtered by start and end dates, optional location (desired floor IDs), and optional required features. will use multiple eligible offices to suggest a booking package if a single desk is not available for the duration.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*startDate	date	
*endDate	date	
floorIds	array of number	
features	array of number	

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request

2.5 GET /availabilities/top/{amount}

Finds top availabilities, not filtered

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*amount	number	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[{
Array of object:
  availabilityId  integer
  startDate       string
  endDate         string
  workspaceId     string
  workspaceName   string
  floorId         integer
  location        string
  bookings [{
  Array of object:
    bookingId   integer
    startDate   string
    endDate     string
```

```
      user {
        staffId     integer
        email       string
        firstName   string
        lastName    string
        department  string
        valid       boolean
      }
    }]
  }]
```

STATUS CODE - 400: Bad Request

2.6 GET /availabilities

Finds Availabilities, filtered by various properties, of which startDate and endDate are required

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*startDate	date	The first date of the search range
*endDate	date	The last date of the search range
location	string	Office building location
floor	string	Floor of building
features	array of string	Features to filter by

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[{
```
Array of object:

```
  availabilityId  integer
  startDate       string
  endDate         string
  workspaceId     string
  workspaceName   string
  floorId         integer
  location        string
  bookings [{
```
Array of object:

```
    bookingId   integer
    startDate   string
    endDate     string
    user {
      staffId     integer
      email       string
      firstName   string
      lastName    string
      department  string
      valid       boolean
    }
```

```
    }]
  }]
```

STATUS CODE - 400: Bad Request

2.7 POST /lockWorkspace

Temporarily lock a Booking as the User enters confirmation page

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
availabilityId	integer	
staffId	integer	
startDate	string	
endDate	string	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
{
  bookingId   integer
  startDate   string
  endDate     string
  user {
    staffId     integer
    email       string
    firstName   string
    lastName    string
    department  string
    valid       boolean
  }
}
```

STATUS CODE - 400: Bad Request

STATUS CODE - 403: Locking of booking unsuccessful

2.8 DELETE /lockWorkspace/{id}

Unlocks a Booking before the 20 minute automatic unlock

For when the User navigates away from the confirmation page or closes the browser tab.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	integer	ID of the Booking to delete

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request

2.9 GET /bookings

Finds Bookings by User ID

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*staffId	integer	The ID of the User

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[{
Array of object:
  bookingId        integer
  startDate        string
  endDate          string
  user {
    staffId     integer
    email       string
    firstName   string
    lastName    string
    department  string
    valid       boolean
  }
  availabilityId   integer
  workspace {
    workspaceId   string
    staff {
      staffId     integer
      email       string
      firstName   string
      lastName    string
      department  string
      valid       boolean
    }
    floor {
      floorId       integer
      floorName     string
      location      string
      city          string
      building      string
      floorPlanUri  string
    }
    features      [string]
  }
```

```
}]
```

STATUS CODE - 400: Bad Request

2.10 POST /bookings

Confirm a temporarily locked Booking

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
bookingId	integer	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
{
  bookingId   integer
  startDate   string
  endDate     string
  user {
    staffId     integer
    email       string
    firstName   string
    lastName    string
    department  string
    valid       boolean
  }
}
```

STATUS CODE - 400: Bad Request

2.11 DELETE /bookings/{id}

Cancel an upcoming Booking

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	integer	ID of the Booking to delete

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request

---

3. OFFICELENDING

As an ICBC office owner, create Availabilities for fellow employees

3.1 GET /features

Get features by availabilityId, workspaceId, or all features if no params

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
availabilityId	number	
workspaceId	string	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[string]
```

3.2 GET /locations

A list of all the location names

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[string]
```

3.3 POST /availabilities

Create an Availability (mark a workspace as available)

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
startDate	string	
endDate	string	
workspaceId	string	
comment	string	

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
{
   availabilityId  integer
   startDate       string
   endDate         string
   workspaceId     string
   workspaceName   string
   floorId         integer
   location        string
   bookings [{
   Array of object:
      bookingId   integer
      startDate   string
      endDate     string
      user {
         staffId     integer
         email       string
         firstName   string
         lastName    string
         department  string
         valid       boolean
      }
   }]
}
```

STATUS CODE - 400: Bad Request (Incorrect Request Body)

STATUS CODE - 403: Forbidden (Conflicting Dates)

3.4 GET /availabilities/owner

Finds Availabilities by the Staff ID of the owner

The Availabilities of the Workspace(s) associated with the Staff ID will be found.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*id	integer	the Staff ID of the office owner

RESPONSE

STATUS CODE - 200: Successful Operation

RESPONSE MODEL - application/json

```
[{
Array of object:
   availabilityId  integer
   startDate       string
   endDate         string
   workspaceId     string
```

```
    workspaceName   string
    floorId         integer
    location        string
    bookings [{
    Array of object:
      bookingId   integer
      startDate   string
      endDate     string
      user {
        staffId     integer
        email       string
        firstName   string
        lastName    string
        department  string
        valid       boolean
      }
    }]
  }]
```

STATUS CODE - 400: Bad Request

3.5 DELETE /availabilities/{id}

Cancel an Availability

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	integer	ID of the Availability to delete

RESPONSE

STATUS CODE - 200: Successful Operation

STATUS CODE - 400: Bad Request
