# **API** Documentation

#### Routes

URL HTTP Method Functionality /users GET Retrieve All Users /users POST Create User /users/:id GET Retrieve User PATCH /users/:id Update User /users/login POST Retrieve Access Token /users/:id/bookings GET Retrieve User's Bookings /bookings GET Retrieve all Unallocated Bookings

/bookings POST Create Booking /bookings/:id GET Retrieve Booking /bookings/:id PATCH Update Booking

/bookings/:id/claim PATCH <u>Claim an Unallocated Booking</u> /bookings/:id/release PATCH <u>Release a Booking</u>

/bookings/:id/release PATCH Release a Booking
/companies/:id GET Retrieve Company
/companies/:id/bookings GET Retrieve Company's Bookings
/companies/:id/admins GET Retrieve Company's Admins
/companies/:id/drivers GET Retrieve Company's Drivers
/companies/:id/drivers PATCH Add Driver to Company

Remove Driver from Company

Retrieve All Users

/companies/:id/drivers/:id PATCH

Retrieves the names and IDs of all registered users.

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Example Response

# Create User

Creates a new User record from information provided in request body.

Request Headers

N/A

Request Body

Attribute Description

email (required) the new user's email

name (required) the new user's full name

password (required) the new user's password

Retrieve User

Retrieves information about a given user, based on the provided user ID.

Request Headers

Attribute Description
Authorization (required) the authorization token

Request Body

N/A

Example Response

```
{
    "_id": "5c7c640796a5b10008e056ce",
    "email": "johndoe@gmail.com",
    "mame": "John Doe",
    "__v": 0,
    "created at": "2019-03-03T23:32:23.298Z",
    "available": false,
    "bookings": [],
    "company": null,
    "role": "Customer"
}
```

#### Update User

Updates a user's record based on the user ID passed as a parameter.

Request Headers

Attribute Description
Authorization (required) the authorization token

Request Body

Attribute Description
name (optional) the user's new full name
password (optional) the user's new password
old\_password (optional) the user's old password
availability (optional) the driver's availability

Retrieve Access Token

Sends Basic Auth credentials (email and password) and if valid grants a 24 hour access token.

Request Headers

Attribute Description

Authorization (required) the basic auth credentails

Request Body

 $\begin{array}{ll} \mbox{Attribute} & \mbox{Description} \\ \mbox{email} & \mbox{(required) the user's email} \\ \mbox{password (required) the user's password} \end{array}$ 

Example Response

```
{
"_id": "5c7c640796a5b10008e056ce",
"email": "johndoe@gmail.com",
"name": "John Doe",
"_v": 0,
"_v": 0,
"created at": "2019-03-03T23:32:23.298Z",
"role": "Customer",
"token": "eyjhbGciOiJIUz11NiIsInR5cCl6lkpXVCJ9.eyJzdWliOi11YzdjNjQwNzk2YTViMTAwMDhlMDU2Y2UiLCJyb2xlljoiQ3VzdG9tZXIiLCJpYXQiOjE1NTE3MTY4MjMsimV4cCl6MTU1MTgwMzlyM30.WaMrF646juSZmKUnrjXZAnSrwsgc
}
```

#### Retrieve User's Bookings

Retrieves a list of the user's bookings, can pass a query parameter to limit results.

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Example Response

# Retrieve all Unallocated Bookings

Retrieves a list of the all unallocated bookings, viewable by Company Admins

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Example Response

```
"time": "2019-03-27T00-50-42-0002",
"no passengers" 2.
"customer": "5c6e-3eae99c440007987bb",
"created_at="2019-03-26T23:50:59-567Z",
'status": "Fending',
'company': "
'driver": "5c9aba-34b5cce00080eae7",
'sld: "5c9aba-34b5cce00080eae8?"
'sld: "5caca7e6d13e6d000768658",
'pickup_location": "Fferm Penglais Block 17",
'destination: "Aberystwyth Coll Club',
'time!": 2019-04-09T16:37:49-926Z',
'no_passengers": 1,
"customer": "5caaba-63a006e0007573de6",
"___':0.
"company": null,
'driver": null,
```

#### Create Booking

Creates a new Booking record from information provided in request body.

Request Headers

N/A

Request Body

Attribute Description

pickup\_location (required) the pickup location of the new booking

destination (required) the destination of the new booking

time (required) the desired time of the new booking (ISO Format)

no\_passengers (required) the number of passengers for the new booking

#### Retrieve Booking

Retrieves information about a given booking, based on the provided ID.

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Example Response

```
{
    "id": "5c8e444c29b15f000813aa00",
    "pickup_location": "Fferm Penglais",
    "destination": "Ynyslas Beach",
    "time": "2019-03-17T13:53:00.0002",
    "no passengers": 1,
    "customer": {
        "id": "5c8e418129b15f000813a9fe",
        "name": "Rhys Evans"
    },
    "__v": 0,
    "created at": "2019-03-17T12:49:16.078Z",
    "status": "Pending"
}
```

# Update Booking

Updates a booking's record based on the booking ID as a parameter

Request Headers

Attribute Description
Authorization (required) the authorization token

Request Body

 $\begin{array}{cc} \text{Attribute} & \text{Description} \\ & \text{status} & \text{(optional) the new status of the booking} \end{array}$ 

 $\begin{array}{ll} \mbox{time} & \mbox{(optional) the new time of the booking} \\ \mbox{driver} & \mbox{(optional) the new driver of the booking} \\ \mbox{note} & \mbox{(optional) a new note for the booking} \end{array}$ 

Claim an Unallocated Booking

As a Company Admin, claim an unallocated booking for your company

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

Attribute Description company (required) the ID of the company

Release a Booking

As a Company Admin or Booking Driver, release a booking back to the unallocated pool.

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Retrieve a Company

Retrieves a Company's record.

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Example Response

```
{
    "_id": "5caa3e8ca6c086b4686bcc37",
    "name": "Taxi Co",
    "__v": 5,
    "created_at": "2019-04-07T18:16:44.359Z",
    "admins": [
        "5caa3e5dde3576000871cf3a"
        ],
        "drivers": [
        "5caa6b3d2ff74f00072e67ea"
        ],
        bookings": []
}
```

# Retrieve a Company's Bookings

Retrieves a list of a Company's Bookings

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Example Response

Retrieve a Company's Admins

Retrieves a list of a Company's Admins

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

Example Response

```
{
    "_id": "5caa3e5dde357600871cf3a",
    "email": "jane Doe",
    "_w": 0,
    "company": "5caa3e8ca6c086b4686bcc37",
    "created_at": "2019-04-07T18:15:57.0452",
    "available": false,
    "bookings": [],
    "rode": "Company Admin",
    "id": "5caa6b3d2ff7400072e67ea",
    "email": "rhys301097@gmail.com",
    "aname": "Rhys Evans",
    "_w": 0,
    "company": "5caa3e8ca6c086b4686bcc37",
    "created_at": "2019-04-07T18:15:57.0452",
    "available": false,
    "bookings": [],
    "rode": "Company Admin",
    "id": "5caa3b3d2ff7400072e67ea",
    "id": "5caa3b3d2ff7400072e67ea",
    "available": false,
    "bookings": [],
    "rode": "Company Admin",
    "id": "5caa3b3d2ff74f00072e67ea"
},
},
```

# Retrieve a Company's Drivers

Retrieves a list of a Company's employed Drivers

Request Headers

Attribute Description

Authorization (required) the authorization token

Request Body

N/A

#### Example Response

### Add a Driver to a Company

Add a driver to a company's record.

Request Headers

Attribute Description

 ${\bf Authorization} \ ({\bf required}) \ the \ authorization \ token$ 

Request Body

 $\begin{array}{ll} \mbox{Attribute} & \mbox{Description} \\ \mbox{driver} & \mbox{(required) the driver to add} \end{array}$ 

Remove a Driver from a Company

Remove a driver to a company's record.

Request Headers

Attribute Description
Authorization (required) the authorization token

Errors

InvalidTokenError

This error is thrown if there is a token present in the request header, but it could not be validated.

Code HTTP Status

1 403 (Forbidden)

Token Expired Error

Thrown if the token provided in the request header has expired.

Code HTTP Status

2 403 (Forbidden)

MissingTokenError

Thrown if no token was found in the request header. This could be because the token was provided under the wrong key.

Code HTTP Status
3 401 (Unauthorized)

NoUsersFoundError

Thrown if a GET request for user(s) returns a 404. Pretty self explanatory.

Code HTTP Status 4 404 (Not Found)

 ${\sf UserAlreadyExistsError}$ 

Thrown if new user could not be created due to a user record already existing with the provided email.

Code HTTP Status 5 400 (Bad Request)

AuthenticationFailedError

Thrown if invalid credentials are POSTed to /users/login.

Code HTTP Status 6 403 (Forbidden)

ValidationError

Thrown if there was an error validating contents request body. Specific validation error(s) are returned as a list within the response.

Code HTTP Status 7 400 (Bad Request)

InvalidObjectIdError

Thrown if the ID passed in a /users/:id request is not a valid MongoDB Object ID

Code HTTP Status 8 400 (Bad Request)

UnauthorizedEditError

Thrown if an attempt to edit a record is made using a token that does not have the required permissions.

Code HTTP Status 9 403 (Forbidden)

BookingNotFoundError

Thrown if a booking could not be found within the database

Code HTTP Status 10 404 (Not Found)

 ${\tt CustomerAlreadyHasActiveBookingError}$ 

Thrown if a customer attempts to create a booking when they already have an active booking on their account.

Code HTTP Status 11 403 (Forbidden)

UnauthorizedViewError

Thrown if an attempt to view a record is made using a token that does not have the required permissions.

Code HTTP Status 12 403 (Forbidden)

InvalidRoleError

Thrown if a user attempts to perform a task that is not allowed within their current role, i.e. setting a customer as the driver of a booking.

Code HTTP Status 13 403 (Forbidden)

MissingAuthenticationError

Thrown if a user attempts to log in with an invalid or missing Basic Auth string in the request header.

Code HTTP Status 14 401 (Unauthorized)

Company Not Found Error

Thrown if a company could not be found within the database

Code HTTP Status 15 404 (Not Found)

DriverAlreadyAddedError

Thrown if a Company Admin attempts to add a driver to a company, when the driver is already employed.

Code HTTP Status 16 404 (Forbidden)