BigRedRides API Specifications

Big Red Rides is a ride sharing application that connects drivers and riders through an interactive API. The platform enables users to create rides, join trips, manage user profiles, and maintain waitlists. This document outlines the available endpoints, their functionality, and the required parameters.

Rides Specifications

Get All Rides

`GET /rides/`

- **Description**: retrieves a list of all rides

- **Response**: `200 OK`

```
[
    {
        "id": 1,
        "driver_id": 1,
        "departure": "North Campus",
        "destination": "Ithaca Airport",
        "time": "2024-12-04T10:30:00",
        "seats": 3,
        "price": 10.0,
        "info": "Early morning ride"
        "status": "open",
        "waitlist": []
    }
]
```

Get a Specific Ride

`GET /rides/<int:ride_id>/`

- **Description**: retrieves details of specific ride

- **Response**:

    - `200 OK` : Ride details.

    - `404 Not Found` : `{"error": "Ride not found."}`

```
[
    {
        "id": 1,
        "driver_id": 2,
        "departure": "Philadelphia",
        "destination": "New York City",
        "time": "2024-12-05T12:00:00",
        "seats": 3,
        "price": 75.0,
        "info": "Small Car",
        "status": "open",
        "waitlist": []
    },
    {
        "id": 2,
        "driver_id": 1,
        "departure": "Ithaca",
        "destination": "New York City",
        "time": "2024-12-20T10:30:00",
        "seats": 3,
        "price": 50.0,
        "info": "Small Car",
        "status": "open",
        "waitlist": []
    }
]
```

Create a Ride

`POST /rides/`

- **Description**: Creates a new ride
- **Request:**

```
{
    "driver_id": 1,
    "departure": "Baker Flagpole",
    "destination": "Syracuse Airport",
    "time": "2024-12-20T10:30:00",
    "seats": 4,
    "price": 50.00,
    "info": "Small Car"
}
```

- **Response**:
  - `201 Created` : Ride details.
  - `400 Bad Request` : Error messages for missing fields or invalid data

```
{
    "id": 3,
    "driver_id": 1,
    "departure": "Baker Flagpole",
    "destination": "Syracuse Airport",
    "time": "2024-12-20T10:30:00",
    "seats": 4,
    "price": 50.00,
    "info": "Small Car",
    "status": "open",
    "waitlist": []
}
```

Update a Ride

`PATCH /rides/<int:ride_id>/`

- **Description :** Updates a ride's details

- **Request:**

```
{
    "departure": "Philadelphia",
    "time": "2024-12-05T12:00:00",
    "price": 75.0
}
```

- **Response:**

  - `200 OK` : Updated ride details

  - `404 Not Found` : `{"error": "Ride not found.`

```
{
    "id": 1,
    "driver_id": 1,
    "departure": "Philadelphia",
    "destination": "Pittsburgh",
    "time": "2024-12-05T12:00:00",
    "seats": 3,
    "price": 75.0,
    "info": "none",
    "status": "open",
    "waitlist": []
}
```

Delete a Ride

`DELETE /rides/<int:ride_id>/`

- **Description**: Deletes a specific ride

- **Response**:

- `200 OK` : `{"message": "Ride deleted successfully."}`

- `404 Not Found` : `{"error": "Ride not found."}`

Update Waitlist for a Ride

`POST /rides/<int:ride_id>/waitlist/`

- **Description**: Adds a user to a ride's waitlist

- **Response**

  - `200 OK` : `{"message": "Waitlist updated successfully."}`

  - `404 Not Found` : Error messages for missing ride or user

User Specifications

Create a User

`POST /users/`

- **Description**: Creates a new user

- **Request:**

```
{
    "name": "Boq",
    "email": "bbq@cornell.edu
}
```

- **Response**:

  - `201 Created` : User details

  - `400 Bad Request` : `{"error": "Email already exists."}`

```
{
    "id": 7,
    "name": "Boq",
```

```
    "email": "bbq@cornell.edu",
}
```

Get a User

`GET /users/<int:user_id>/`

- **Description**: Retrieves a user's details
- **Response**:
    - `200 OK` : User details
    - `404 Not Found` : `{"error": "User not found."}`

```
{
    "id": 1,
    "name": "Amelia",
    "email": "ayz23@cornell.edu",
}
```

Trip Specifications

Get All Trips

`GET /trips/`

- **Description**: Retrieves a list of all trips
- **Response**:
    - `200 OK` : List of trips

```
{
    "trips": [
        {
            "id": 1,
            "ride_id": 1,
```

```
            "user_id": 2,
            "role": "driver",
            "status": "confirmed"
        },
        {
            "id": 2,
            "ride_id": 2,
            "user_id": 1,
            "role": "rider",
            "status": "confirmed"
        }
    ]
}
```

Add User to a Trip

`POST /trips/`

- **Description**: Adds a user to a trip

- **Request:**

```
{
    "ride_id": 3,
    "user_id": 2
}
```

- **Response**

    - `201 Created` : Trip and ride details

    - `404 Not Found` : Error messages for missing ride or user

    - `400 Bad Request` : `{"error": "No seats available."}`

```
{
    "trip": {
```

```
        "id": 8,
        "ride_id": 3,
        "user_id": 2,
        "role": "rider",
        "status": "confirmed"
    },
    "ride": {
        "ride_id": 3,
        "driver_id": 7
    }
}
```

Remove a User from a Trip

`DELETE /trips/<int:trip_id>/`

- **Description**: Removes a user from a trip

- **Response**

  - `200 OK` : `{"message": "User removed from trip successfully."}` or `{"message": "User removed from trip successfully. Waitlist updated."}`

  - `404 Not Found` : Error messages for missing trip or user.

  - `400 Bad Request` : `{"error": "User does not belong to this trip."}`

```
{
    "user_id": 2
}
```

Get a User's Trips

`GET /users/<int:user_id>/trips/`

- **Description**: Retrieves trips associated with a user

- **Response**:

- `200 OK` : List of trips

- `404 Not Found` : `{"error": "User not found."}`

```
[
    {
        "id": 6,
        "ride_id": 3,
        "user_id": 5,
        "role": "driver",
        "status": "confirmed"
    },
    {
        "id": 7,
        "ride_id": 2,
        "user_id": 5,
        "role": "rider",
        "status": "confirmed"
    }
]
```