



Introduction to Flight Reservation

(Project Solution)





You'll build a Flight Reservation API with Django Rest Framework that allows users to

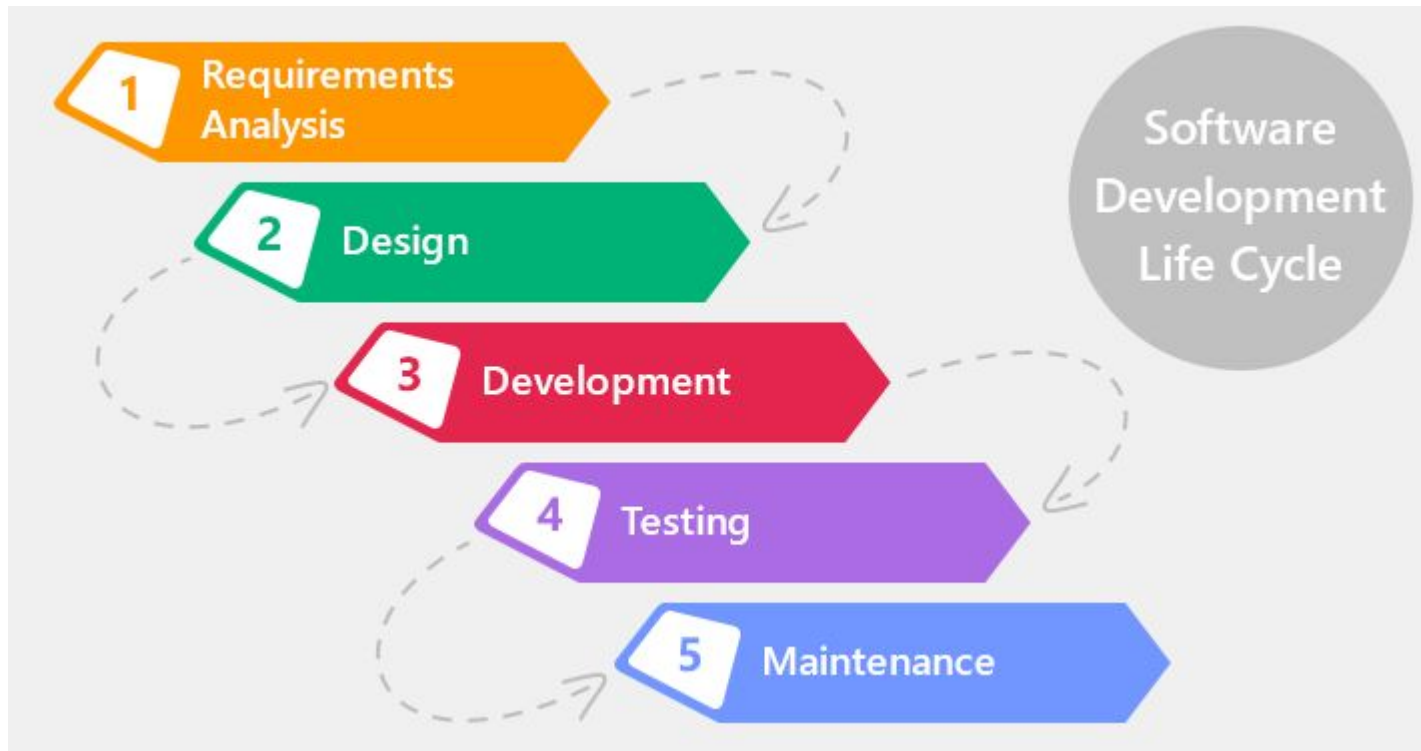
- **register/login/logout**
- **crud operations for flights**
- **crud operations for reservation**

Project Flight Reservation API BRD

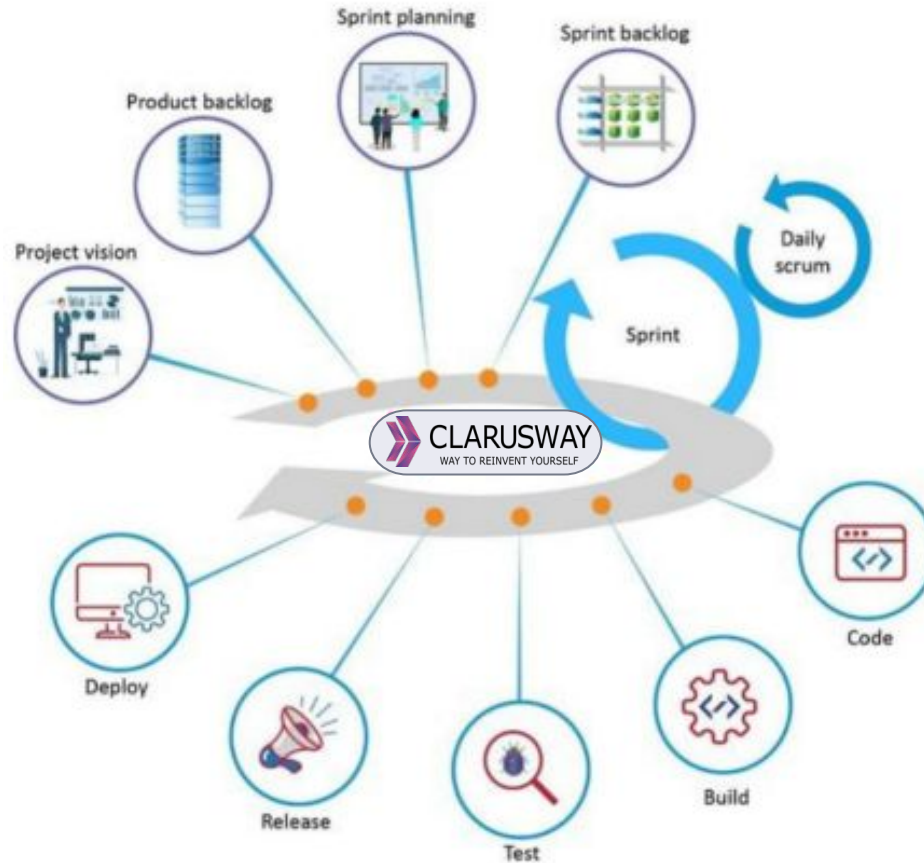




SDLC



Software Development Workflow





Our Technology Stack

DEVELOPMENT

FRONTEND



BACKEND



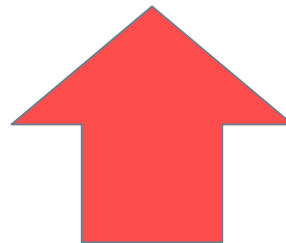
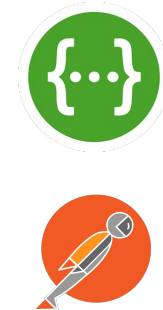
DATABASES



DEPLOY

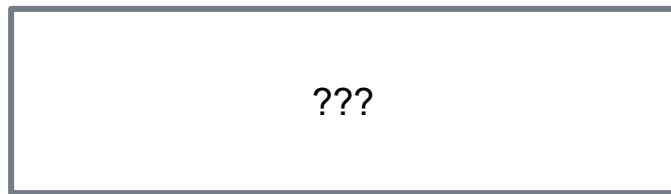


TESTING





Flight Reservation API



FRONTEND

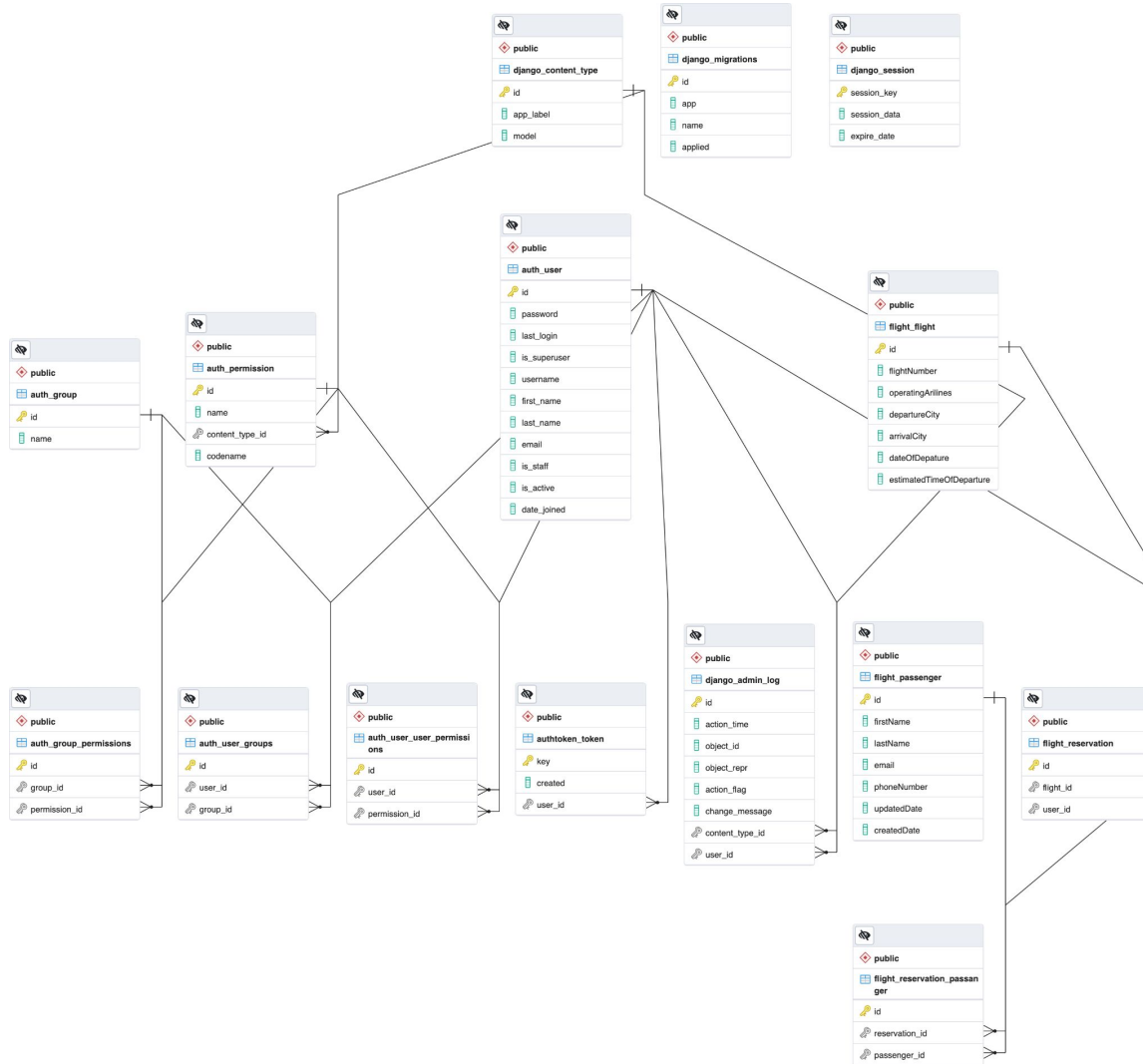


BACKEND



DATABASE

ERD





Authentication

CW Flight App (V1)

Download OpenAPI specification: [Download](#)

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CWF API

Authentication

Basic

Security Scheme Type	HTTP
HTTP Authorization Scheme	basic

Accounts



accounts_auth_login_create

Check the credentials and return the REST Token if the credentials are valid and authenticated. Calls Django Auth login method to register User ID in Django session framework

Accept the following POST parameters: username, password Return the REST Framework Token Object's key.

AUTHORIZATIONS: Basic

REQUEST BODY SCHEMA: application/json

username	string (Username)
email	string <email> (Email)
password required	string (Password) non-empty

Responses

201

RESPONSE SCHEMA: application/json

username	string (Username)
email	string <email> (Email)
password required	string (Password) non-empty

POST /accounts/auth/login/

Request samples

Payload

Content type
application/json

Copy Expand all Collapse all

```
{
  "username": "string",
  "email": "user@example.com",
  "password": "string"
}
```

Response samples

201

Content type
application/json

Copy Expand all Collapse all

```
{
  "username": "string",
  "email": "user@example.com",
  "password": "string"
}
```



Accounts

Calls Django logout method and delete the Token object assigned to the current User object.

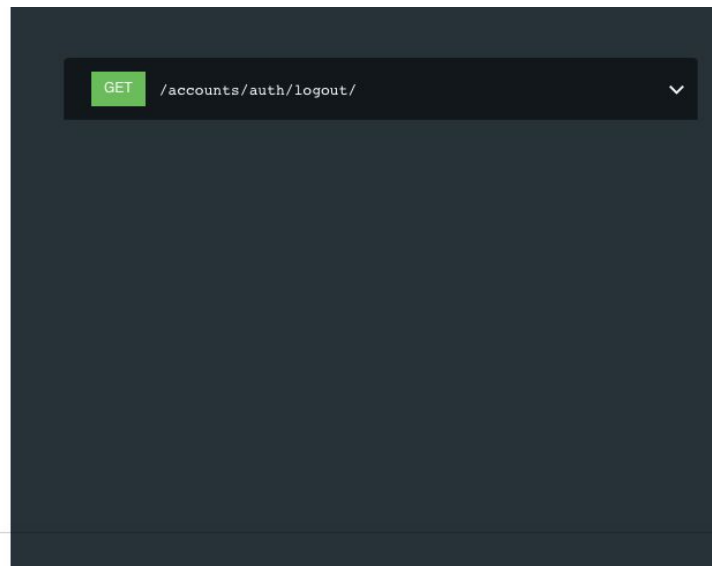
Accepts/Returns nothing.

AUTHORIZATIONS:

Basic

Responses

— 200



Accounts



Calls Django Auth SetPasswordForm save method.

Accepts the following POST parameters: new_password1, new_password2 Returns the success/fail message.

AUTHORIZATIONS: Basic

REQUEST BODY SCHEMA: application/json

new_password1 required	string (New password1) [1 .. 128] characters
new_password2 required	string (New password2) [1 .. 128] characters

Responses

✓ 201

RESPONSE SCHEMA: application/json

new_password1 required	string (New password1) [1 .. 128] characters
new_password2 required	string (New password2) [1 .. 128] characters

POST /accounts/auth/password/change/

Request samples

Payload

Content type
application/json

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```
{
  "new_password1": "string",
  "new_password2": "string"
}
```

Response samples

201

Content type
application/json

Copy Expand all Collapse all

```
{
  "new_password1": "string",
  "new_password2": "string"
}
```

Accounts



Calls Django Auth PasswordResetForm save method.

Accepts the following POST parameters: email Returns the success/fail message.

AUTHORIZATIONS: [Basic](#)

REQUEST BODY SCHEMA: `application/json`

→ `email`
`required` string <email> (Email) `non-empty`

Responses

✓ 201

RESPONSE SCHEMA: `application/json`

→ `email`
`required` string <email> (Email) `non-empty`

POST `/accounts/auth/password/reset/`

Request samples

Payload

Content type
`application/json`

Copy Expand all Collapse all

```
{
  "email": "user@example.com"
}
```

Response samples

201

Content type
`application/json`

Copy Expand all Collapse all

```
{
  "email": "user@example.com"
}
```



Flight Create

flight_flights_create

AUTHORIZATIONS:

Basic

REQUEST BODY SCHEMA: application/json

flightNumber <small>required</small>	integer (FlightNumber) [-2147483648 .. 2147483647]
operatingAirlines <small>required</small>	string (OperatingAirlines) [1 .. 25] characters
departureCity <small>required</small>	string (DepartureCity) [1 .. 30] characters
arrivalCity <small>required</small>	string (ArrivalCity) [1 .. 30] characters
dateOfDeparture <small>required</small>	string <date> (DateOfDeparture)
estimatedTimeOfDeparture <small>required</small>	string (EstimatedTimeOfDeparture)

Responses

201

RESPONSE SCHEMA: application/json

id	integer (ID)
flightNumber <small>required</small>	integer (FlightNumber) [-2147483648 .. 2147483647]
operatingAirlines <small>required</small>	string (OperatingAirlines) [1 .. 25] characters
departureCity <small>required</small>	string (DepartureCity) [1 .. 30] characters
arrivalCity <small>required</small>	string (ArrivalCity) [1 .. 30] characters
dateOfDeparture <small>required</small>	string <date> (DateOfDeparture)
estimatedTimeOfDeparture <small>required</small>	string (EstimatedTimeOfDeparture)

POST /flight/flights/

Request samples

Payload

Content type
application/json

Copy Expand all Collapse all

```
{
  "flightNumber": -2147483648,
  "operatingAirlines": "string",
  "departureCity": "string",
  "arrivalCity": "string",
  "dateOfDeparture": "2019-08-24",
  "estimatedTimeOfDeparture": "string"
}
```

Response samples

201

Content type
application/json

Copy Expand all Collapse all

```
{
  "id": 0,
  "flightNumber": -2147483648,
  "operatingAirlines": "string",
  "departureCity": "string",
  "arrivalCity": "string",
  "dateOfDeparture": "2019-08-24",
  "estimatedTimeOfDeparture": "string"
}
```



Flight Read

flight_flights_read

AUTHORIZATIONS:

Basic

PATH PARAMETERS

<code>id</code> <small>required</small>	integer A unique integer value identifying this flight.
--	--

Responses

200

RESPONSE SCHEMA: application/json

<code>id</code>	integer (ID)
<code>flightNumber</code> <small>required</small>	integer (FlightNumber) [-2147483648 .. 2147483647]
<code>operatingAirlines</code> <small>required</small>	string (OperatingAirlines) [1 .. 25] characters
<code>departureCity</code> <small>required</small>	string (DepartureCity) [1 .. 30] characters
<code>arrivalCity</code> <small>required</small>	string (ArrivalCity) [1 .. 30] characters
<code>dateOfDeparture</code> <small>required</small>	string <date> (DateOfDeparture)
<code>estimatedTimeOfDeparture</code> <small>required</small>	string (EstimatedTimeOfDeparture)

GET /flight/flights/{id}/

Response samples

200

Content type
application/json

Copy Expand all Collapse all

```
{
  "id": 0,
  "flightNumber": -2147483648,
  "operatingAirlines": "string",
  "departureCity": "string",
  "arrivalCity": "string",
  "dateOfDeparture": "2019-08-24",
  "estimatedTimeOfDeparture": "string"
}
```



Flight Update

flight_flights_update

AUTHORIZATIONS:

Basic

PATH PARAMETERS

id	integer
required	A unique integer value identifying this flight.
REQUEST BODY SCHEMA: application/json	
flightNumber	integer (FlightNumber) [-2147483648 .. 2147483647]
required	
operatingAirlines	string (OperatingAirlines) [1 .. 25] characters
required	
departureCity	string (DepartureCity) [1 .. 30] characters
required	
arrivalCity	string (ArrivalCity) [1 .. 30] characters
required	
dateOfDeparture	string <date> (DateOfDeparture)
required	
estimatedTimeOfDeparture	string (EstimatedTimeOfDeparture)
required	

Responses

200	
RESPONSE SCHEMA: application/json	
id	integer (ID)
flightNumber	integer (FlightNumber) [-2147483648 .. 2147483647]
required	
operatingAirlines	string (OperatingAirlines) [1 .. 25] characters
required	
departureCity	string (DepartureCity) [1 .. 30] characters
required	
arrivalCity	string (ArrivalCity) [1 .. 30] characters
required	
dateOfDeparture	string <date> (DateOfDeparture)
required	
estimatedTimeOfDeparture	string (EstimatedTimeOfDeparture)
required	

PUT /flight/flights/{id}/

Request samples

Payload

Content type
application/json

```
{
  "flightNumber": -2147483648,
  "operatingAirlines": "string",
  "departureCity": "string",
  "arrivalCity": "string",
  "dateOfDeparture": "2019-08-24",
  "estimatedTimeOfDeparture": "string"
}
```

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Response samples

200

Content type
application/json

```
{
  "id": 0,
  "flightNumber": -2147483648,
  "operatingAirlines": "string",
  "departureCity": "string",
  "arrivalCity": "string",
  "dateOfDeparture": "2019-08-24",
  "estimatedTimeOfDeparture": "string"
}
```

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Flight Delete

✈ flight_flights_delete

AUTHORIZATIONS:

Basic

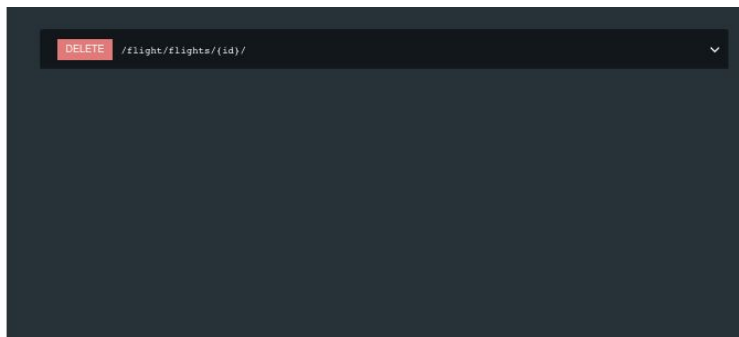
PATH PARAMETERS

id
required

integer
A unique integer value identifying this flight.

Responses

— 204





Reservation Create

flight_resv_create

AUTHORIZATIONS:

Basic

REQUEST BODY SCHEMA: application/json

flight_id <i>required</i>	integer (Flight id)
passanger >	Array of objects (Passenger)
user_id	integer (User id)

Responses

201

RESPONSE SCHEMA: application/json

id	integer (ID)
flight_id <i>required</i>	integer (Flight id)
passanger >	Array of objects (Passenger)
user	string (User)
user_id	integer (User id)

POST /flight/resv/

Request samples

Payload

Content type

application/json

Copy Expand all Collapse all

```
{
  "flight_id": 0,
  "passanger": [
    + { - }
  ],
  "user_id": 0
}
```

Response samples

201

Content type

application/json

Copy Expand all Collapse all

```
{
  "id": 0,
  "flight_id": 0,
  "passanger": [
    + { - }
  ],
  "user": "string",
  "user_id": 0
}
```



Reservation Read

flight_resv_read

AUTHORIZATIONS:

Basic

PATH PARAMETERS

— **id**
required integer
A unique integer value identifying this reservation.

Responses

✓ 200

RESPONSE SCHEMA: application/json

— **id** integer (ID)
— **flight_id** integer (Flight id)
required
— **passanger** > Array of objects (Passenger)
— **user** string (User)
— **user_id** integer (User id)

GET /flight/resv/{id}/

Response samples

200

Content type
application/json

Copy Expand all Collapse all

```
{
  "id": 0,
  "flight_id": 0,
  "passanger": [
    + { ... }
  ],
  "user": "string",
  "user_id": 0
}
```



Reservation Update

flight_resv_update

AUTHORIZATIONS:

Basic

PATH PARAMETERS

<code>id</code> <code>required</code>	integer A unique integer value identifying this reservation.
--	---

REQUEST BODY SCHEMA: `application/json`

<code>flight_id</code> <code>required</code>	integer (Flight id)
<code>passanger</code> >	Array of objects (Passenger)
<code>user_id</code>	integer (User id)

Responses

200

RESPONSE SCHEMA: `application/json`

<code>id</code>	integer (ID)
<code>flight_id</code> <code>required</code>	integer (Flight id)
<code>passanger</code> >	Array of objects (Passenger)
<code>user</code>	string (User)
<code>user_id</code>	integer (User id)

PUT /flight/resv/{id}/

Request samples

Payload

Content type

application/json

Copy Expand all Collapse all

```
{
  "flight_id": 0,
  "passanger": [
    { }
  ],
  "user_id": 0
}
```

Response samples

200

Content type

application/json

Copy Expand all Collapse all

```
{
  "id": 0,
  "flight_id": 0,
  "passanger": [
    { }
  ],
  "user": "string",
  "user_id": 0
}
```



Reservation Delete

flight_resv_delete

AUTHORIZATIONS:

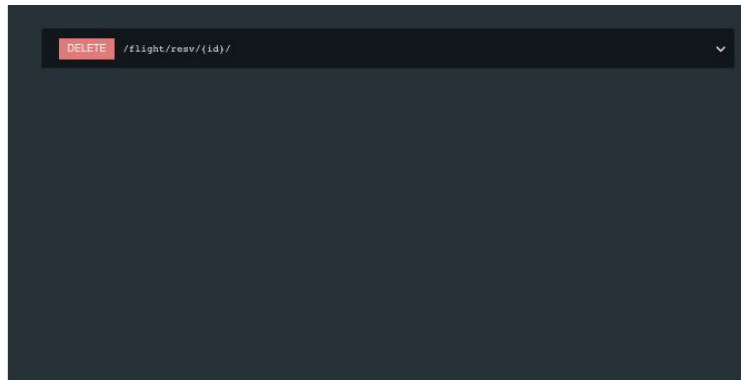
Basic

PATH PARAMETERS

— id
required integer
A unique integer value identifying this reservation.

Responses

— 204





THANKS!

Any questions?





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