

Cities

Endpoint	Method	Description
/api/cities	GET	Get all cities Parameters (optional) show-airports (boolean), default=false Response codes: 200
/api/city/{id}	GET	Get city by ID Parameters (optional) show-airports (boolean), default=false Response codes: 200, 404
/api/city-search	GET	Search cities Parameters (optional) name (string), substring match , case-insensitive show-airports (boolean), default=false Response codes: 200
/api/city	POST	Create city (constraint: name+state must be unique) Example payload <pre>{ "name": "Atlanta", "state": "GA", "population": 496461 }</pre> Response codes: 201, 400, 409
/api/cities	POST	Create multiple cities (constraint: unique name+state) Response codes: 201, 400, 409
/api/city/{id}	PUT	Update city by ID Response codes: 200, 400, 404, 409
/api/city/{id}	DELETE	Delete city by ID Response codes: 204, 404, 409

Airports

Endpoint	Method	Description
/api/airports <div>New parameter</div>	GET	Get all airports Parameters (optional) show-gates (boolean), default=false Response codes: 200
/api/airport/{id} <div>New parameter</div>	GET	Get airport by ID Parameters (optional) show-gates (boolean), default=false Response codes: 200, 404
/api/airport-search	GET	Search airports Parameters (optional) name (string), substring match , case-insensitive code (string), substring match , case-insensitive Response codes: 200
/api/airport	POST	Create airport (constraint: code must be unique) Example payload <pre>{ "name": "Long Beach Airport", "code": "LGB", "city": { "id": 2 } }</pre> Response codes: 201, 400, 404, 409
/api/airports	POST	Create multiple airports (constraint: code must be unique) Response codes: 201, 400, 404, 409
/api/airport/{id}	PUT	Update airport by ID Response codes: 200, 400, 404, 409
/api/airport/{id}	DELETE	Delete airport by ID Response codes: 204, 404, 409

Gates New endpoint

Endpoint	Method	Description
/api/gates	GET	Get all gates at the airport Parameters (required) airport-id (integer) Response codes: 200, 404
/api/gate/{id}	GET	Get airport gate by ID Response codes: 200, 404
/api/gate	POST	Create gate at the airport (constraint: name unique per airport) Example payload <pre>{ "name": "AT1-1", "airport": { "id": 19 } }</pre> Response codes: 201, 400, 404, 409
/api/gates	POST	Create multiple gates (constraint: name unique per airport) Response codes: 201, 400, 404, 409
/api/gate/{id}	PUT	Update airport gate by ID Response codes: 200, 400, 404, 409
/api/gate/{id}	DELETE	Delete airport gate by ID Response codes: 204, 404, 409

Airlines New endpoint

Endpoint	Method	Description
/api/airlines	GET	Get all airlines Parameters (optional) show-aircrafts (boolean), default=false Response codes: 200
/api/airline/{id}	GET	Get airline by ID Parameters (optional) show-aircrafts (boolean), default=false Response codes: 200, 404 (not found)
/api/airline	POST	Create airline (constraint: name must be unique) Example payload <pre>{ "name": "American Airlines" }</pre> Response codes: 201, 400, 409
/api/airlines	POST	Create multiple airlines (constraint: name must be unique) Response codes: 201, 400, 409
/api/airline/{id}	PUT	Update airline by ID Response codes: 200, 400, 404, 409
/api/airline/{id}	DELETE	Delete airline by ID Response codes: 204, 404, 409

Aircrafts

Endpoint	Method	Description
/api/aircraft	GET	Get all aircrafts Parameters (optional) show-airports (boolean), default=false Response codes: 200
/api/aircraft/{id}	GET	Get aircraft by ID Parameters (optional) show-airports (boolean), default=false Response codes: 200, 404
/api/aircraft Updated	POST	Create aircraft Example payload <pre>{ "type": "Boeing 737-800", "airline": { "id": 1 }, "capacity": 166 }</pre> Response codes: 201, 400
/api/aircrafts Updated	POST	Create multiple aircrafts Response codes: 201, 400
/api/aircraft/{id} Updated	PUT	Update aircraft by ID Response codes: 200, 400, 404, 409
/api/aircraft/{id}	DELETE	Delete aircraft by ID Response codes: 204, 404, 409

Flights

Endpoint	Method	Description
/api/flights	GET	Get all flights Response codes: 200
/api/flight/{id}	GET	Get flight by ID Parameters (optional) show-passengers (boolean), default=false Response codes: 200, 404 (not found)
/api/flight-search New parameters	GET	Search flights Parameters (at least one is required) start-date (yyyy-mm-dd) end-date (yyyy-mm-dd) departure-city (str), substring match, case-insensitive departure-city-state (str), substring match, case-insensitive departure-airport-name (str), substring match, case-insensitive departure-airport-code (str), substring match, case-insensitive arrival-city (str), substring match, case-insensitive arrival-city-state (str), substring match, case-insensitive arrival-airport-name (str), substring match, case-insensitive arrival-airport-code (str), substring match, case-insensitive airline-name (str), substring match, case-insensitive Response codes: 200, 400
/api/flight Updated	POST	Create flight Example payload <pre>{ "flightNumber": "AA101", "departureTime": "2024-01-15T06:15:00", "arrivalTime": "2024-01-15T09:30:00", "aircraft": { "id": 9 }, "departureAirport": { "id": 1 }, "departureGate": { "id": 20 }, "arrivalAirport": { "id": 12 }, "arrivalGate": { "id": 80 } }</pre> Response codes: 201, 400, 404, 409
/api/flights Updated	POST	Create multiple flights Response codes: 201, 400, 404, 409
/api/aircraft/{id} Updated	PUT	Update flight by ID Response codes: 200, 400, 404, 409
/api/aircraft/{id}	DELETE	Delete flight by ID Response codes: 204, 404, 409

Passengers

Endpoint	Method	Description
/api/passengers	GET	<p>Get all passengers</p> <p>Parameters (optional, any combination)</p> <p>show-bookings (bool), default=false</p> <p>show-airports (bool), default=false</p> <p>show-aircrafts (bool), default=false</p> <p>Response codes: 200</p>
/api/passenger/{id}	GET	<p>Get passenger by ID</p> <p>Parameters (optional, any combination)</p> <p>show-bookings (bool), default=false</p> <p>show-airports (bool), default=false</p> <p>show-aircrafts (bool), default=false</p> <p>Response codes: 200, 404 (not found)</p>
/api/passenger-search	GET	<p>Search passengers</p> <p>Parameters (optional, any combination)</p> <p>first-name (string), substring match, case-insensitive</p> <p>last-name (string), substring match, case-insensitive</p> <p>Response codes: 200</p>
/api/passenger	POST	<p>Create passenger</p> <p>Example payload</p> <pre>{ "firstName": "Mia", "lastName": "Wright", "phoneNumber": "5034447890" }</pre> <p>Response codes: 201, 400</p>
/api/passengers	POST	<p>Create multiple passengers</p> <p>Response codes: 201, 400</p>
/api/passenger/{id}	PUT	<p>Update passenger by ID</p> <p>Response codes: 200, 400, 404</p>
/api/passenger/{id}	DELETE	<p>Delete passenger by ID</p> <p>Response codes: 204, 404, 409 (has bookings)</p>

Bookings

Endpoint	Method	Description
/api/book	POST	Create booking (register passenger for flight) Example payload <pre>{ "flightId": "18", "passengerId": "15" }</pre> Response codes: 200, 400, 404, 409
/api/bookings	POST	Create multiple bookings Example payload <pre>[{ "flightId": "1", "passengerId": "1" }, { "flightId": "10", "passengerId": "8" }]</pre> Response codes: 200, 207(multi-status), 400, 404, 409
/api/book	DELETE	Delete booking Example payload <pre>{ "flightId": "18", "passengerId": "15" }</pre> Response codes: 204, 400, 404, 409