API Documentation

This document provides an explanation for the available endpoints in the API for the Boxinator application.

### Account-endpoints: /api/v1/account

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| **#** | **Action** | **Method** | **Path** | **Headers** | **Parameters** | **Changes** | **Responses** | **Error cases** |
| 1 | Register a new account | POST | /register | No header. | Body containing account information | Adding row to table “Account”,  Hashing password and storing hashed version instead of raw | **Success:** Successfully created an account and added a row to the table. | **DataIntegrityViolationException:** Either a required value is missing or a value that has to be unique, isn’t.  Error Code: BAD\_REQUEST  **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 2 | Test login credentials | POST | /login | No header. | Body containing login credentials | No changes. | **Success:** Valid account credentials were provided. (OBS! This endpoint is not used in the frontend, logging in happens in firebase.)  **Fail:**  “Incorrect credentials.”  Wrong credentials were provided and no action was executed. | **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 3 | Get all accounts | GET | /all | No header. | No body. | No changes. | **Success:** Returns a list of all accounts in the database. | **Exception:** Request failed for unknown reason.  Error Code: INTERNAL\_SERVER\_ERROR |
| 4 | Get specific account | GET | /{account\_email} | Bearer token, generated from firebase. | No body. Email of specified account in URL. | No changes. | **Success:** Valid Bearer token and account found in database. Returns account with email provided in URL.  **Fail:**  Invalid Bearer token. Returns error message and a status of UNAUTHORIZED. | **Exception:** Request failed because no account with the provided email could be found in the database. Error Code: NOT\_FOUND |
| 5 | Update account | PATCH | /{account\_id} | Bearer token, generated from firebase. | Body containing an object with data meant to replace current data in the specified row. ID of specified account in URL. | Updating information of specified row. Eg. firstname or lastname of account. | **Success:** Valid Bearer token and account found in database. Values from body replaces current values in database. If email is updated, update account in firebase aswell.  **Fail 1:** Invalid Bearer token. Returns error message and a status of UNAUTHORIZED.  **Fail 2:** Account not found. Returns status NOT\_FOUND. | **Exception:** Request failed because account information could not be saved. Error Code: BAD\_REQUEST |
| 6 | Delete account | DELETE | /{account\_id} | Bearer token, generated from firebase. | No body. ID of specified account in URL. | Removing a row from “Account”-table. | **Success:** Valid Bearer token, logged in user has role “ADMIN” and account found in database. Removes account in firebase as well.  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED.  **Fail 2:** Role not allowed this action. Returns status  UNAUTHORIZED.  **Fail 3:** Account could not be found. Returns status NOT\_FOUND. | No error, all exceptions handled by responses.  May return INTERNAL\_SERVER\_ERROR on rare occasions. |
| 8 | Get role of current user | GET | /role | Bearer token, generated from firebase. | No body. | No changes. | **Success:** Valid Bearer token, returns role of logged in user. | **FirebaseAuthException:** Firebase request failed, could not verify token. |

### Country-endpoints: /api/v1/settings/country

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| **#** | **Action** | **Method** | **Path** | **Headers** | **Parameters** | **Changes** | **Responses** | **Error cases** |
| 1 | Create a new country | POST | /create | Bearer token, generated from firebase. | Body containing information about a new country. | Adds a row to the table “Country”. | **Success:** Valid Bearer token, account role is ADMIN and body contains all required fields. Returns status CREATED  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED.  **Fail 2:** Role not allowed this action. Returns status  UNAUTHORIZED. | **DataIntegrityViolationException:** Either a required value is missing or a value that has to be unique, isn’t.  Error Code: BAD\_REQUEST  **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 2 | Get all countries | GET | /all | No header. | No body. | No changes. | **Success:** A list of all countries currently in the database is returned. | **Exception:** Could not retrieve the countries from the database. Error Code: INTERNAL\_SERVER\_ERROR |
| 3 | Update country | PATCH | /{country\_id} | Bearer token, generated from firebase. | Body containing new values for a country. ID of specified country in URL. | Finds country with id provided in URL, replaces values in database with values provided in body. | **Success:** Valid Bearer token, role is ADMIN and country found in database. Values from body replaces current values in database.  **Fail 1:** Invalid Bearer token. Returns error message and a status of UNAUTHORIZED.  **Fail 2:** Not of role ADMIN. Returns error message and a status of UNAUTHORIZED.  **Fail 2:** Country not found. Returns status NOT\_FOUND. | **Exception:** Request failed because country information could not be saved. Error Code: BAD\_REQUEST |
| 4 | Delete country | DELETE | /{country\_id} | Bearer token, generated from firebase. | No body. ID of specified country in URL. | Finds country with id provided in URL, removes that country from database. | **Success:** Valid Bearer token, logged in user has role “ADMIN” and account found in database.  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED.  **Fail 2:** Role not allowed this action. Returns status  UNAUTHORIZED.  **Fail 3:** Country could not be found. Returns status NOT\_FOUND. | **Exception:** Could not delete country with specified ID. Error Code: INTERNAL\_SERVER\_ERROR |

### Shipment-endpoints: /api/v1/shipment

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| **#** | **Action** | **Method** | **Path** | **Headers** | **Parameters** | **Changes** | **Responses** | **Error cases** |
| 1 | Create a new shipment | POST | /create | Bearer token, generated from firebase. | Body contains a new shipment. | Adds a row to the table “Shipments”. | **Success:** Valid Bearer token and body contains all required fields. Returns status CREATED  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED. | **DataIntegrityViolationException:** Either a required value is missing or a value that has to be unique, isn’t.  Error Code: BAD\_REQUEST  **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 2 | Get specific shipment | GET | /{shipment\_id} | Bearer token, generated from firebase. | ID of specified shipment in URL. | No Changes. | **Success:** Valid Bearer token, role is either USER or ADMIN and shipment found in database. Returns shipment with id provided in URL.  **Fail 1:**  Invalid Bearer token. Returns error message and a status of UNAUTHORIZED.  **Fail 2:**  Role not allowed this action. Returns error message and a status of UNAUTHORIZED.  **Fail 3:**  Invalid ID provided, could not find shipment. Returns error message and a status of NOT\_FOUND. | No error, all exceptions handled by responses.  May return INTERNAL\_SERVER\_ERROR on rare occasions. |
| 3 | Update a specific shipment | PATCH | /{shipment\_id} | Bearer token, generated from firebase. | ID of specified shipment in URL.  Body contains new values to a shipment. | Updates the specified row in the table “Shipments” with the provided values from body. | **Success:** Valid Bearer token, role is ADMIN or USER and country found in database. Values from body replaces current values in database.  **Fail 1:** Invalid Bearer token. Returns error message and a status of UNAUTHORIZED.  **Fail 2:** Not of role ADMIN or USER. Returns error message and a status of UNAUTHORIZED.  **Fail 2:** Country not found. Returns status NOT\_FOUND. | **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 4 | Delete a specific shipment | DELETE | /{shipment\_id} | Bearer token, generated from firebase. | ID of specified shipment in URL. | Removes a row of the specified shipment from the database. | **Success:** Valid Bearer token, logged in user has role “ADMIN” and shipment found in database.  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED.  **Fail 2:** Role not allowed this action. Returns status  UNAUTHORIZED.  **Fail 3:** Country could not be found. Returns status NOT\_FOUND. | **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 5 | Get all shipments | GET | /all | Bearer token, generated from firebase. | No body. | No Changes. | **Success:** Valid Bearer token, logged in user has role “ADMIN” or “USER”. A list of all shipments available to currently logged in user is returned.  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED.  **Fail 2:** Your role does not have permission for this action. Returns status  UNAUTHORIZED. | **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 6 | Get all shipments by a specific account | GET | /all/{account\_id} | Bearer token, generated from firebase. | ID of specified account in URL. | No Changes. | **Success:**  Valid Bearer token, logged in user has role “ADMIN” and account found in database. Returns a list of shipments by a specific account.  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED.  **Fail 2:** Your role does not have permission for this action. Returns status  UNAUTHORIZED. | **Exception:** Request failed for unknown reason.  Error Code: CONFLICT |
| 7 | Get all shipments with a specific status | GET | /status/{shipmentStatus} | Bearer token, generated from firebase. | Status of specified shipment in URL. | No Changes. | **Success:**  Valid Bearer token, shipments with specified status found in database. Returns a list of shipments.  **Fail 1:** Invalid Bearer token. Returns status  UNAUTHORIZED. | **Exception:** Request failed for unknown reason.  Error Code: INTERNAL\_SERVER\_ERROR |