

**Dokumentation EatSmart API (Schnittstellenbeschreibung)**

S0010	
URL	/
Methode	GET
Input	-
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<ul style="list-style-type: none">• <self> "/" [GET]• <register> "/users" [POST]• <login> "/login" [GET]• <pwdResetRequest> "/pwdResetRequest" [POST]
Header "Location"	-
Berechtigung	Everybody

S0020	
URL	/users
Methode	POST
Input	<ul style="list-style-type: none">• username: String {unique, not null}• email: String {unique, not null, Email-Syntax}• password {not null, between 5 and 32 characters}• horizonInDays{not null, min. 1}
Output	-
Return Code	<ul style="list-style-type: none">• CREATED (201)• If username or E-Mail already taken: CONFLICT (409)
Header "Link"	<ul style="list-style-type: none">• <next> "GET /"
Header "Location"	/users/{userId}
Berechtigung	Everybody

S0025	
URL	/verification/registration/{token}
Methode	GET
Input	-
Output	-
Return Code	SEE OTHER (303)
Header "Link"	-
Header "Location"	/html/registration/success.html
Berechtigung	Everybody

**S0030**

URL	/pwdResetRequest
Methode	POST
Input	<ul style="list-style-type: none">• username: String {not null}• email: String {not null, must correspond to username}
Output	-
Return Code	<ul style="list-style-type: none">• ACCEPTED (202)• If combination of username and E-Mail not found -> NOT FOUND 404• If user is disabled (e.g. registration not yet completed) : CONFLICT (409)
Header "Link"	<ul style="list-style-type: none">• <next> "GET /"
Header "Location"	
Berechtigung	Everybody

S0040

URL	/verification/pwdResetRequest/{token}
Methode	GET
Input	-
Output	-
Return Code	SEE OTHER (303)
Header "Link"	-
Header "Location"	/html/pwdResetRequest/success.html
Berechtigung	Everybody

S0050

URL	/login
Methode	GET
Input	-
Output	-
Return Code	SEE OTHER (303) – if authentication successful UNAUTHORIZED (401) – if authentication not successful
Header "Link"	-
Header "Location"	/users/{userId}
Berechtigung	<ul style="list-style-type: none">• Everybody



S0060	
URL	/users/{userId}
Methode	GET
Input	-
Output	<ul style="list-style-type: none">• id: Number• username: String• email: String• password: String• horizonInDays: Number
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}" [GET,PUT] <foods> "/users/{userId}/foods" [GET] <recipes> "/users/{userId}/recipes" [GET] <fridgeStocks> "/users/{userId}/fridgeStocks" [GET] <menuSchedules> "/users/{userId}/schedules" [GET] <shoppingList> "/users/{userId}/shoppingList" [GET] <logout> "/" [GET]
Header "Location"	-
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0070	
URL	/users/{userId}
Methode	PUT
Input	<ul style="list-style-type: none">• username: String {not modified}• email: String {not modified}• password: String {not null, between 5 and 32 characters}• horizonInDays{not null, min. 1}
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<self> "/users/{userId}" [GET,PUT] <logout> "/" [GET]
Header "Location"	-
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

**S0071**

URL	/users/{userId}/foods
Methode	GET
Input	-
Output	Collection of all foods (shared and own), each <ul style="list-style-type: none">• id: Number• name: String• weightPerUnit: long
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/foods" [GET,POST] <new> "/users/{userId}/foods" [POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0072

URL	/users/{userId}/foods
Methode	POST
Input	-
Output	<ul style="list-style-type: none">• name: String {not blank, not null}• weightPerUnit: long
Return Code	CREATED (201)
Header "Link"	<self> "/users/{userId}/foods" [GET,POST] <user> "GET /users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	/users/{userId}/foods/{id}
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0073

URL	/users/{userId}/foods/{id}
Methode	GET
Input	-
Output	<ul style="list-style-type: none">• id: Number• name: String• weightPerUnit: long
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/foods/{id}" [GET] <all> "/users/{userId}/foods" [GET] <childs> "/users/{userId}/foods/{id}/childFoods" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

**S0074**

URL	/users/{userId}/foods/{id}/childFoods [/id]/childFoods/...../id}/childFoods
Methode	GET
Input	-
Output	Collection of all childFoods of parent with {id}, each <ul style="list-style-type: none">• id: Number• name: String• weightPerUnit: long
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/foods/{id}/childFoods" [GET,POST] <new> "/users/{userId}/foods/{id}/childFoods" [POST] <parent> "/users/{userId}/foods/{id}" [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0075

URL	/users/{userId}/foods/{id}/childFoods [/id]/childFoods/...../id}/childFoods]
Methode	POST
Input	<ul style="list-style-type: none">• name: String {not blank, not null}• weightPerUnit: long
Output	CREATED (201)
Return Code	<self> "/users/{userId}/foods/{id}/childFoods" [GET,POST] <user> "GET /users/{userId} <logout> "/" [GET]
Header "Link"	/users/{userId}/foods/{id}/childFoods /id}
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0076

URL	/users/{userId}/foods/{id}/childFoods/{id}
Methode	GET
Input	-
Output	<ul style="list-style-type: none">• id: Number• name: String• weightPerUnit: long
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/foods/{id} childFoods/{id}" [GET] <all> "/users/{userId}/foods/{id}/childFoods" [GET] <childs> "/users/{userId}/foods/{id}/childFoods/{id}/childFoods" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0080

URL	/users/{userId}/recipes
Methode	GET
Input	-



Output	<p>Collection of recipes, each</p> <ul style="list-style-type: none">• id: Number• name: String• Collection of Ingredients, each<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number◦ displayUnit: String• picture: String [base64 encoded byte array]• prepInstruction: String• prepTime: String• rating: Number• servings: Number
Return Code	OK (200)
Header "Link"	<pre><self> "/users/{userId}/recipes" [GET,POST] <findByName> "/users/{userId}/ recipes?qName=" [GET] <sortByNameAsc> "/users/{userId}/ recipes?sort=name" [GET] <sortByNameDesc> "/users/{userId}/ recipes?sort=-name" [GET] <sortByRatingDesc> "/users/{userId}/ recipes?sort=-rating" [GET] <sortBySmartRankingDesc> "/users/{userId}/recipes/smartRanking" [GET] <new> "/users/{userId}/ recipes" [POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]</pre>
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0085	
URL	/users/{userId}/recipes/smartRanking
Methode	GET
Input	-
Output	<p>Collection of recipes with smartRanking field, each</p> <ul style="list-style-type: none">• id: Number• name: String• Collection of Ingredients, each<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number◦ displayUnit: String• picture: String [base64 encoded byte array]• prepInstruction: String• prepTime: String• rating: Number• servings: Number• smartRanking: Number (0..100)
Return Code	OK (200)
Header "Link"	<p><self> "/users/{userId}/recipes" [GET] <findByName> "/users/{userId}/ recipes?qName=" [GET] <sortByNameAsc> "/users/{userId}/ recipes?sort=name" [GET] <sortByNameDesc> "/users/{userId}/ recipes?sort=-name" [GET] <sortByRatingDesc> "/users/{userId}/ recipes?sort=-rating" [GET] <sortBySmartRankingDesc> "/users/{userId}/recipes/smartRanking" [GET]</p> <p><new> "/users/{userId}/ recipes" [POST] <user> "/users/{userId}" [GET]</p> <p><logout> "/" [GET]</p>
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0090	
URL	/users/{userId}/recipes
Methode	POST
Input	<ul style="list-style-type: none">• name: String {not null}• Collection of Ingredients, each<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number◦ displayUnit: String• picture: String [base64 encoded byte array]• prepInstruction: String• prepTime: String• rating: Number {between 0 and 5}• servings: Number {min 1}
Output	-
Return Code	CREATED (201)
Header "Link"	<self> "/users/{userId}/ recipes" [GET,POST] <user> "GET /users/{userId} <logout> "/" [GET]
Header "Location"	/users/{userId}/recipes/{id}
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0110	
URL	/users/{userId}/recipes/{id}
Methode	GET
Input	-
Output	<ul style="list-style-type: none">• id: Number• name: String• Collection of Ingredients, each<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number◦ displayUnit: String• picture: String [base64 encoded byte array]• prepInstruction: String• prepTime: String• rating: Number• servings: Number
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/ recipes/{id}" [GET,PUT,DELETE] <all> "/users/{userId}/ recipes" [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0120	
URL	/users/{userId}/ recipes/{id}
Methode	PUT
Input	<ul style="list-style-type: none">• name: String {not null}• Collection of Ingredients, each<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number◦ displayUnit: String• picture: String [base64 encoded byte array]• prepInstruction: String• prepTime: String• rating: Number {between 0 and 5}• servings: Number {min 1}
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<self> "/users/{userId}/ recipes/{id}" [GET,PUT,DELETE] <all> "/users/{userId}/ recipes" [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0130	
URL	/users/{userId}/ recipes/{id}
Methode	DELETE
Input	-
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<self> "/users/{userId}/ recipes/{id}" [] <all> "/users/{userId}/ recipes" [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

**S0140****URL** /users/{userId}/fridgeStocks**Methode** GET**Input** -

Output

- Collection of Stocks, each
 - id: Number
 - Ingredient
 - Food (from /users/{id}/foods)
 - id: Number
 - name: String
 - weightPerUnit: Number
 - quantityInMg: Number
 - displayUnit: String

Return Code OK (200)

Header "Link"

```
<self> "/users/{userId}/fridgeStocks" [GET,POST]
<findByName> "/users/{userId}/fridgeStocks?qName=" [GET]
<sortByNameAsc> "/users/{userId}/fridgeStocks?sort=name" [GET]
<sortByNameDesc> "/users/{userId}/fridgeStocks?sort=-name" [GET]
<sortByQuantityAsc> "/users/{userId}/fridgeStocks?sort=quantity" [GET]
<sortByQuantityDesc> "/users/{userId}/fridgeStocks?sort=-quantity" [GET]

<new> "/users/{userId}/fridgeStocks" [POST]
<user> "/users/{userId}" [GET]

<logout> "/" [GET]
```

Header "Location"

Berechtigung

- ADMIN
- USER with username={username} and without role DISABLED

**S0160**

URL	/users/{userId}/fridgeStocks
Methode	POST
Input	<ul style="list-style-type: none">○ Ingredient {not null}<ul style="list-style-type: none">▪ Food (from /users/{id}/foods)<ul style="list-style-type: none">• id: Number• name: String• weightPerUnit: Number▪ quantityInMg: Number▪ displayUnit: String
Output	-
Return Code	<ul style="list-style-type: none">• CREATED (201)• CONFLICT (409), if food already exists in users fridge [to update existing stock item try PUT instead]
Header "Link"	<self> "/users/{userId}/fridgeStocks" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	/users/{userId}/fridgeStocks/{id}
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0170

URL	/users/{userId}/fridgeStocks/{id}
Methode	GET
Input	-
Output	<ul style="list-style-type: none">• id: Number• Ingredient<ul style="list-style-type: none">○ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number○ quantityInMg: Number○ displayUnit: String
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/fridgeStocks/{id}" [GET,PUT,DELETE] <all> "/users/{userId}/fridgeStocks" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0180	
URL	/users/{userId}/fridgeStocks/{id}
Methode	PUT
Input	<ul style="list-style-type: none">• Ingredient {not null}<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number◦ displayUnit: String {MG,G,KG,TEESPOON,TABLESPOON,UNIT}
Output	-
Return Code	<ul style="list-style-type: none">• NO CONTENT (204)• CONFLICT (409), if food name already exists in users (Use PUT to update existing resource instead)
Header "Link"	<self> "/users/{userId}/fridgeStocks/{id}" [GET,PUT,DELETE] <all> "/users/{userId}/fridgeStocks" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0190	
URL	/users/{userId}/fridgeStocks/{id}
Methode	DELETE
Input	-
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<self> "/users/{userId}/fridgeStocks/{id}" [] <all> "/users/{userId}/fridgeStocks" [GET,PUT,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0200	
URL	/users/{userId}/menuSchedules
Methode	GET
Input	-
Output	Collection of MenuSchedules, each <ul style="list-style-type: none">• id: Number• date: String• servings: Number• recipe: Recipe
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/menuSchedules" [GET,POST] <filterByStartDate> "/users/{userId}/menuSchedules?qStartDate=" [GET] <filterByEndDate> "/users/{userId}/menuSchedules?qEndDate=" [GET] <new> "/users/{userId}/menuSchedules" [POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0220	
URL	/users/{userId}/menuSchedules
Methode	POST
Input	<ul style="list-style-type: none">• date: String {not null}• servings: Number {not null}• recipe: Recipe {not null, must exist in DB}
Output	-
Return Code	CREATED (201)
Header "Link"	<self> "/users/{userId}/menuSchedules " [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	/users/{userId}/menuSchedules/{id}
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0230	
URL	/users/{userId}/menuSchedules/{id}
Methode	GET
Input	-
Output	<ul style="list-style-type: none">• id: Number• date: String• servings: Number• recipe: Recipe
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/menuSchedules/{id} " [GET,PUT,DELETE] <all> "/users/{userId}/menuSchedules" [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

**S0240**

URL	/users/{userId}/menuSchedules/{id}
Methode	PUT
Input	<ul style="list-style-type: none">• date: String {not null}• servings: Number {not null}• recipe: Recipe {not null, must exist in DB}
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<self> "/users/{userId}/menuSchedules/{id}" [GET,PUT,DELETE] <all> "/users/{userId}/menuSchedules" [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0250

URL	/users/{userId}/menuSchedules/{id}
Methode	DELETE
Input	
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<self> "/users/{userId}/menuSchedules/{id}" [] <all> "/users/{userId}/menuSchedules" [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0260	
URL	/users/{userId}/products
Methode	GET
Input	-
Output	Collection of products, each <ul style="list-style-type: none">• id: Number• ean: String• Ingredient<ul style="list-style-type: none">○ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number○ quantityInMg: Number○ displayUnit: String {MG,G,KG,TEESPOON,TABLESPOON,UNIT}
Return Code	OK (200)
Header "Link"	<self> /users/{userId}/products " [GET,POST] <findByEAN> /users/{userId}/products?ean=" [GET] <new> "/users/{userId}/products" [POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED




S0270	
URL	/users/{userId}/products
Methode	POST
Input	<ul style="list-style-type: none">• ean: String {not null, unique, cannot be changed}• Ingredient {not null}<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number• displayUnit: String {MG,G,KG,TEESPOON,TABLESPOON,UNIT}
Output	-
Return Code	<ul style="list-style-type: none">• CREATED (201)• CONFLICT (409), if EAN already exists [to update existing product try PUT instead]
Header "Link"	<self> "/users/{userId}/products" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	/users/{userId}/products/{id}
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0280	
URL	/users/{userId}/products/{id}
Methode	GET
Input	-
Output	<ul style="list-style-type: none">• id: Number• ean: String• ingredient<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number• displayUnit: String
Return Code	OK (200)
Header "Link"	<self> "/users/{userId}/products/{id}" [GET,PUT,DELETE] <all> "/users/{userId}/products" [GET, POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED



S0290	
URL	/users/{userId}/products/{id}
Methode	PUT
Input	<ul style="list-style-type: none">• ean: String {not null, unique}• ingredient {not null}<ul style="list-style-type: none">◦ Food (from /users/{id}/foods)<ul style="list-style-type: none">▪ id: Number▪ name: String▪ weightPerUnit: Number◦ quantityInMg: Number {not null}• displayUnit: String {ENUM ScaleUnit}
Output	-
Return Code	<ul style="list-style-type: none">• NO CONTENT (204)• CONFLICT (409), if EAN already exists (Use PUT to update existing resource instead)
Header "Link"	<self> "/users/{userId}/products/{id}" [GET,PUT,DELETE] <all> "/users/{userId}/products" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

S0300	
URL	/users/{userId}/products/{id}
Methode	DELETE
Input	-
Output	-
Return Code	NO CONTENT (204)
Header "Link"	<self> "/users/{userId}/products/{id}" [] <all> "/users/{userId}/products" [GET,POST] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none">• ADMIN• USER with username={username} and without role DISABLED

		QB2
		Version 1.2

S0310	
URL	/users/{userId}/shoppingList
Methode	GET
Input	-
Output	Collection of ingredients, each: <ul style="list-style-type: none"> • Food (from /users/{id}/foods) <ul style="list-style-type: none"> ◦ id: Number ◦ name: String ◦ weightPerUnit: Number • quantityInMg: Number • displayUnit: String
Return Code	OK(200)
Header "Link"	<self> "/users/{userId}/shoppingList " [GET] <user> "/users/{userId}" [GET] <logout> "/" [GET]
Header "Location"	
Berechtigung	<ul style="list-style-type: none"> • ADMIN • USER with username={username} and without role DISABLED