



todo

Dokumentation der Anwendung

Full-Stack-Webanwendungen Sommersemester 2023

Lucas Schiessl
lucas.schiessl@hs-augsburg.de
Informatik

Hannes Ziereis
hannes.ziereis@hs-augsburg.de
Informatik

Christoph Herb
christoph.herb@hs-augsburg.de
Informatik

8467 Zeichen (mit Leerzeichen)

Inhaltsverzeichnis

1	Allgemein	2
1.1	Beschreibung	2
1.2	Organisation	2
1.3	Aufbau	2
2	Frontend	3
2.1	Design	3
2.2	Funktionen	4
3	Backend	5
3.1	Funktionen	5
3.2	Tests	5
4	Datenbank	6
5	Quellen	7
5.1	Code-Teile von Dritten	7
5.1.1	Frontend	7
5.1.2	Backend	7
5.2	Bibliotheken	8
5.2.1	Frontend	8
5.2.2	Backend	9
6	Anhang	10
6.1	GitLab Issues	10
6.2	API Dokumentation	12

1 Allgemein

1.1 Beschreibung

* paar infos über die Anwendung * cooles features

1.2 Organisation

* auf gitlab issues zeigen (anhang) * feature based entwicklung erwähnen

1.3 Aufbau

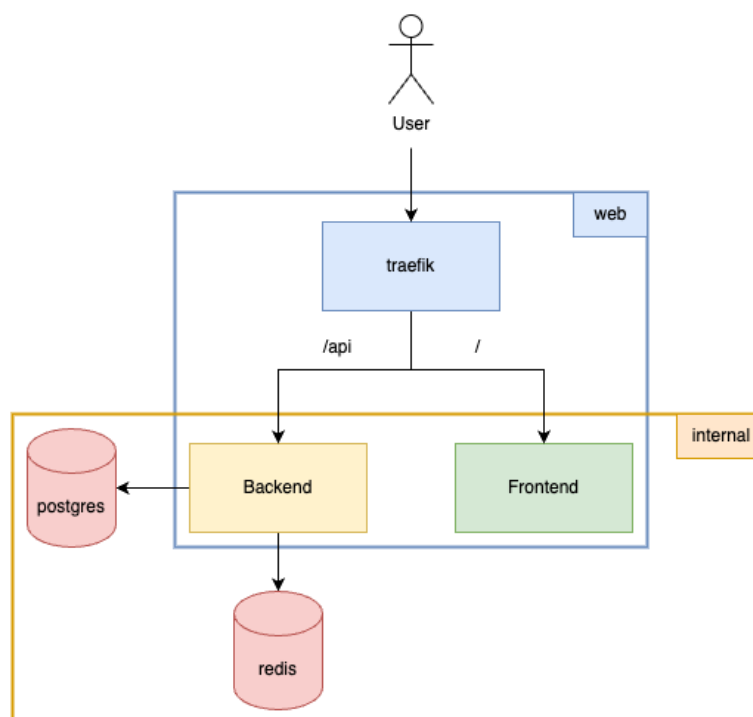
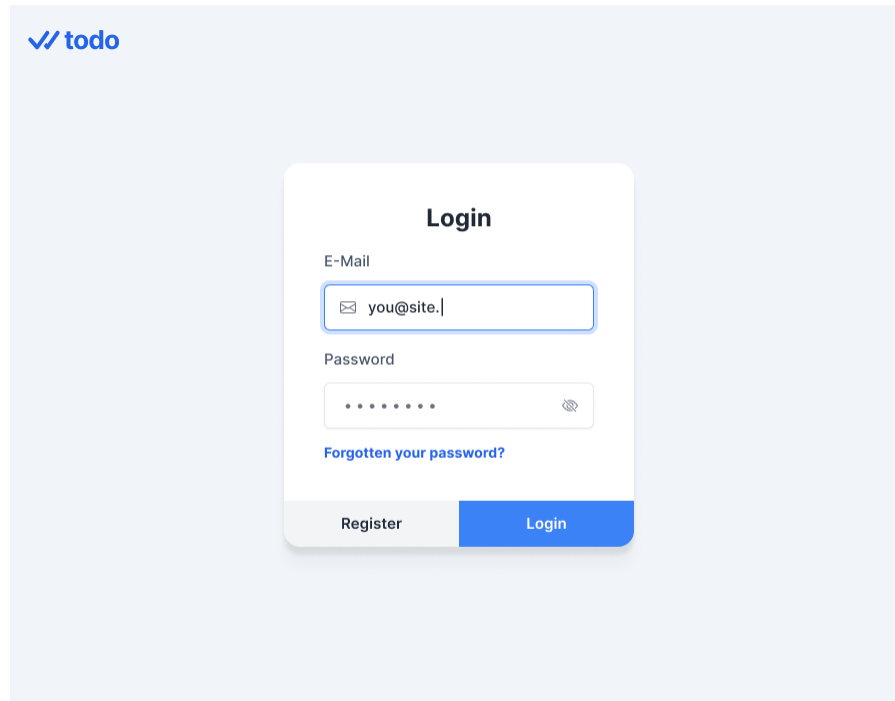


Abbildung 1: Architektur der deployten Anwendung

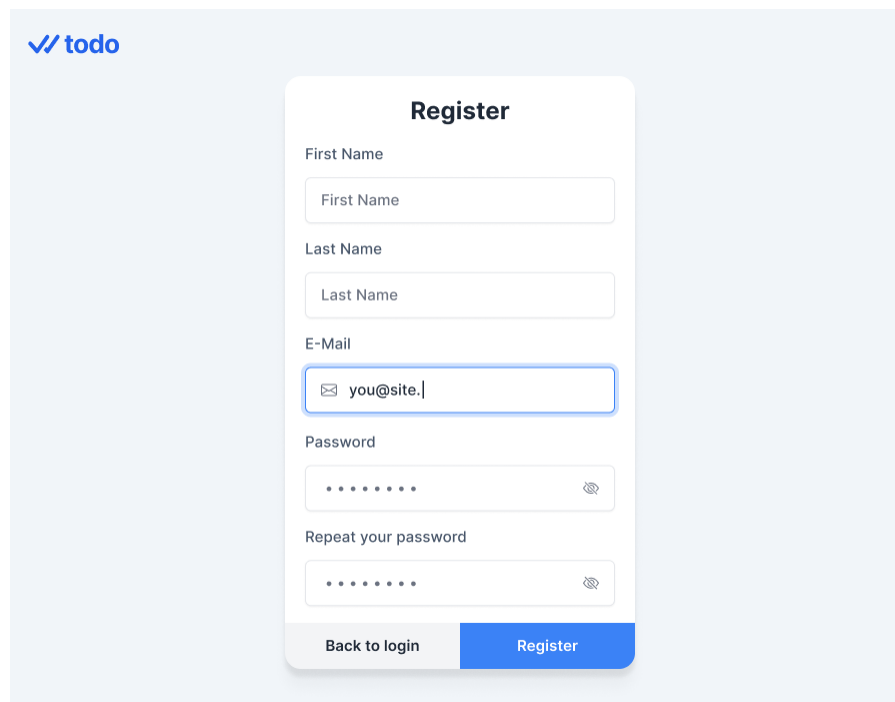
2 Frontend

2.1 Design



The image shows a Figma design of a login form. In the top left corner, there is a logo consisting of a blue checkmark followed by the text "todo". The login form itself is a white rounded rectangle centered on a light blue background. It has a title "Login" in bold black text. Below the title, there are two input fields: "E-Mail" with a placeholder "you@site." and an email icon, and "Password" with a placeholder of seven dots and an eye icon for toggling visibility. A blue link "Forgotten your password?" is positioned below the password field. At the bottom of the form, there are two buttons: a grey "Register" button and a blue "Login" button.

Abbildung 2: Figma Design des Logins



The image shows a Figma design of a register form. In the top left corner, there is a logo consisting of a blue checkmark followed by the text "todo". The register form is a white rounded rectangle centered on a light blue background. It has a title "Register" in bold black text. Below the title, there are four input fields: "First Name", "Last Name", "E-Mail" with a placeholder "you@site." and an email icon, and "Password" with a placeholder of seven dots and an eye icon. Below the password field, there is another input field labeled "Repeat your password" with a placeholder of seven dots and an eye icon. At the bottom of the form, there are two buttons: a grey "Back to login" button and a blue "Register" button.

Abbildung 3: Figma Design des Registrierungsformulars

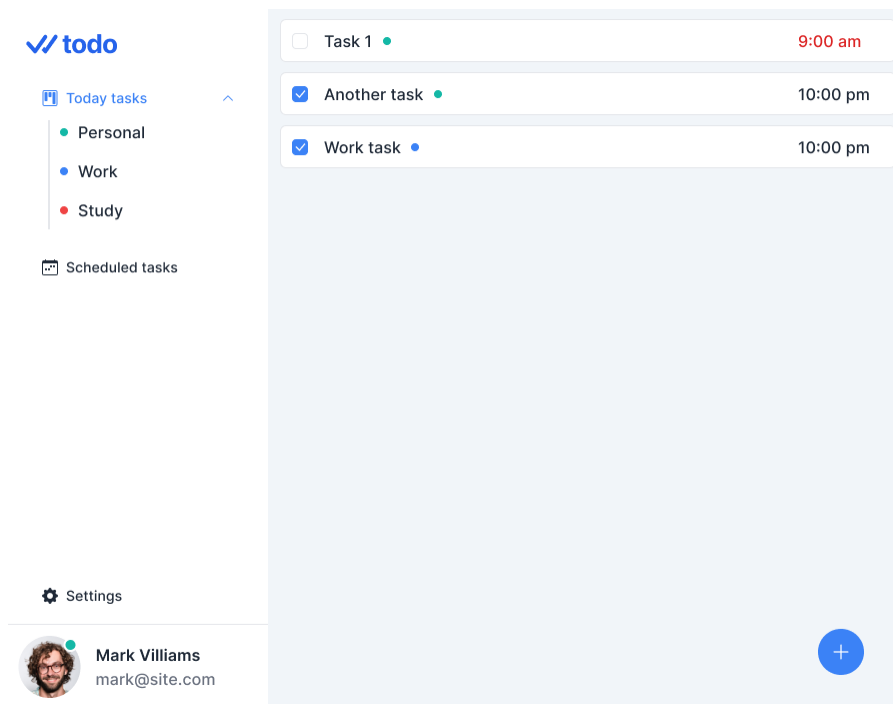


Abbildung 4: Figma Design der Hauptseite

2.2 Funktionen

Das Frontend kann untergliedert werden in folgende Teilbereiche:

- Login und Registrierung
- Taskübersicht
- Navigationsleiste

Für das Login wurde mit Pinia ein Auth Store und ein User Store angelegt. Der Auth Store wird dabei für Login und Logout, sowie das Speichern und Refreshen des Authentication Tokens verwendet. Der User Store wird verwendet um den aktuellen Benutzer abzufragen, einen neuen Nutzer anzulegen oder zu updaten.

Über die Login Seite hat der Nutzer die Möglichkeit sich in der Anwendung anzumelden. Zudem kann durch Klick auf *Registration* ein neuer Nutzer angelegt werden. Ist der Nutzer nicht authentifiziert wird er immer zur Login Seite redirected. Das Passwortfeld in der Login- und Registrierungsmaske wurde um einen Button ergänzt, der es dem Nutzer erlaubt das Passwort im Klartext anzuzeigen, falls gewünscht. Ist der Login erfolgreich, wird der Nutzer auf die Home View weitergeleitet und ein Authentication Token im lokal Storage gespeichert.

Ein neuer Benutzer kann über die Registrierungsseite angelegt werden. Dabei müssen Vor- und Nachname, Email Adresse und Passwort angegeben, sowie das Passwort bestätigt werden. Ist ein Feld leer oder nicht korrekt ausgefüllt wird eine entsprechende Fehlermeldung darunter angezeigt. Wird der Nutzer erfolgreich angelegt, wird der Nutzer auf eine Registration Success Seite weitergeleitet. Anschließend kann man sich einloggen.

Auf der Main Page befindet sich links die Navigationsleiste und rechts die Tasks des aktuell eingeloggten Nutzers. Auf der Navigationsleiste kann der Nutzer zwischen einer Listen und einer Kalender Ansicht der Tasks wählen. Zudem können die Tasks nach den ihnen zugewiesenen Tags gefiltert werden. Am unteren Rand der Navbar wird der Name, die Email Adresse und die Initialen

des aktuell eingeloggten Nutzers angezeigt. Die Initialen könnten in einer zukünftigen Version durch ein Profilbild ersetzt werden. Über dieser Anzeige hat der Nutzer die Möglichkeit sich wieder auszuloggen, oder die Einstellungen zu ändern.

Die Settings Seite bietet dem Benutzer die Möglichkeit seinen Namen und sein Passwort, sowie die Sprache der App zu ändern. Die Texte der App wurden mit dem i18n Plugin für Vue implementiert, so dass zusätzliche Sprachen einfach hinzugefügt werden können. Aktuell unterstützt werden Deutsch und Englisch.

Auf der rechten Seite der Main Page befinden sich die Tasks in einer Liste. In der Liste werden der Titel und falls vorhanden eine verkürzte Beschreibung, der Tag und das Fälligkeitsdatum der Aufgabe angezeigt. Klickt man auf einen Task, öffnet sich eine Detail Ansicht als Modal Fenster. In dieser werden alle Attribute des Tasks angezeigt. Zudem hat der Nutzer die Möglichkeit den Task zu löschen, oder zu bearbeiten.

Ein neuer Task kann durch das unterste Item der Task Liste angelegt werden. Dafür wird mindestens ein Titel benötigt, alle anderen Attribute können durch das Ausklappen des Items eingetragen werden.

Klickt man auf *Scheduled Tasks* wird die Task Liste durch eine Kalender Ansicht ersetzt. Hier werden allerdings nur die Tasks angezeigt, die ein Fälligkeitsdatum als Attribut besitzen. Falls der Task zudem einen zugewiesenen Tag hat, wird der Task in der entsprechenden Farbe angezeigt. Auch in der Kalender Ansicht kann durch Klick auf den Task das Task Detail Modal geöffnet werden.

3 Backend

3.1 Funktionen

- * features

3.2 Tests

- * cucumber tests erwähnen

4 Datenbank

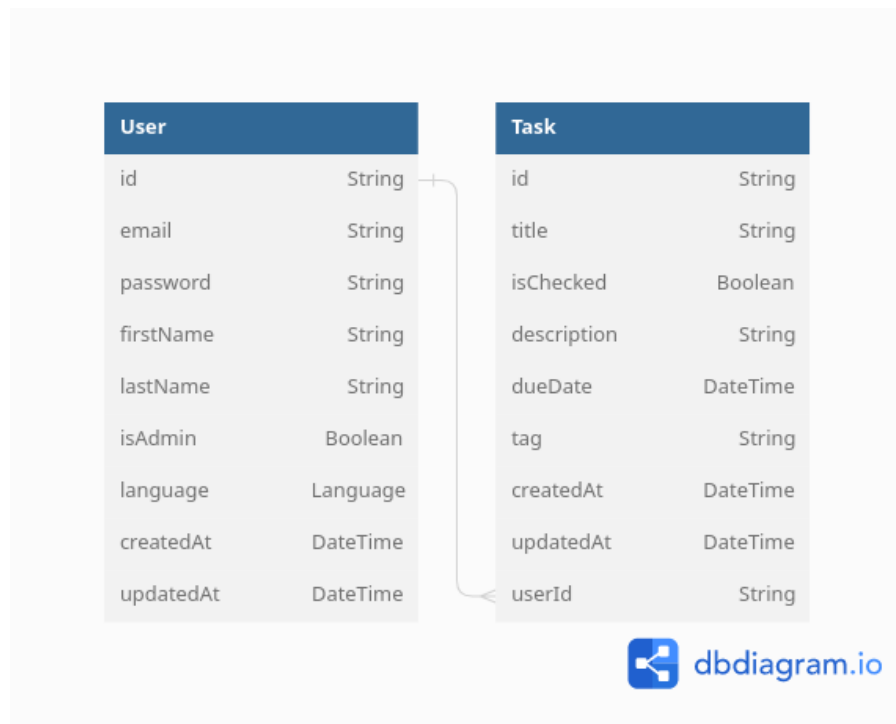


Abbildung 5: Datenbank Diagramm

5 Quellen

5.1 Code-Teile von Dritten

5.1.1 Frontend

- dockerfile for production: <https://medium.com/bb-tutorials-and-thoughts/how-to-serve-vue-js-application-with-nginx-and-docker-d8a872a02ea8>
- nginx config: <https://www.appsyoda.com/blog/deploying-vuejs-app-using-nginx/>
- combobox styled: <https://headlessui.com/react/combobox>

5.1.2 Backend

- <https://github.com/domideimel/error-middleware> (not maintained anymore)
- help from here: <https://www.elliотdenolf.com/blog/cucumberjs-with-typescript>
- redis singleton client: <https://stackoverflow.com/questions/54240635/how-to-make-express-js-app-connect-redis-only-1-time-when-the-app-start-without>
- how to emulate object enums: <https://stackoverflow.com/questions/41179474/use-object-literal-as-typescript-enum-values>
- prisma middleware for hashing passwords: <https://stackoverflow.com/questions/69233726/cannot-hash-the-users-password-with-prisma-middleware-in-nestjs-on-create-user>

5.2 Bibliotheken

5.2.1 Frontend

```
1  "dependencies": {
2    "@headlessui/tailwindcss": "^0.1.3",
3    "@headlessui/vue": "^1.7.14",
4    "@heroicons/vue": "^2.0.17",
5    "@preline/overlay": "^1.4.0",
6    "@vuepic/vue-datepicker": "^5.2.0",
7    "@vueuse/core": "^10.1.2",
8    "autoprefixer": "^10.4.14",
9    "axios": "^1.3.4",
10   "pinia": "^2.0.33",
11   "postcss": "^8.4.21",
12   "preline": "^1.7.0",
13   "storejs": "^2.0.5",
14   "tailwindcss": "^3.2.7",
15   "vue": "^3.2.47",
16   "vue-final-modal": "^4.4.2",
17   "vue-i18n": "9",
18   "vue-router": "^4.1.6",
19   "vue-simple-calendar": "^6.3.1"
20 },
21 "devDependencies": {
22   "@rushstack/eslint-patch": "^1.2.0",
23   "@types/jsdom": "^21.1.0",
24   "@types/node": "^18.14.2",
25   "@vitejs/plugin-vue": "^4.0.0",
26   "@vue/eslint-config-typescript": "^11.0.2",
27   "@vue/test-utils": "^2.3.0",
28   "@vue/tsconfig": "^0.1.3",
29   "autoprefixer": "^10.4.14",
30   "cypress": "^12.7.0",
31   "eslint": "^8.34.0",
32   "eslint-plugin-cypress": "^2.12.1",
33   "eslint-plugin-vue": "^9.9.0",
34   "jsdom": "^21.1.0",
35   "npm-run-all": "^4.1.5",
36   "postcss": "^8.4.21",
37   "start-server-and-test": "^2.0.0",
38   "tailwindcss": "^3.2.7",
39   "typescript": "^4.8.4",
40   "vite": "^4.1.4",
41   "vitest": "^0.29.1",
42   "vue-tsc": "^1.2.0"
43 }
```

5.2.2 Backend

```
1  "dependencies": {
2    "@prisma/client": "^4.11.0",
3    "class-validator": "^0.14.0",
4    "cookie-parser": "^1.4.6",
5    "datejs": "^1.0.0-rc3",
6    "dayjs": "^1.11.8",
7    "dotenv-cli": "^7.1.0",
8    "express": "^4.18.2",
9    "express-actuator": "^1.8.4",
10   "express-async-handler": "^1.2.0",
11   "express-jsdoc-swagger": "^1.8.0",
12   "express-promise-router": "^4.1.1",
13   "jsonwebtoken": "^9.0.0",
14   "ms": "^2.1.3",
15   "prisma": "^4.11.0",
16   "redis": "^4.6.6",
17   "tslog": "^4.8.2"
18 },
19 "devDependencies": {
20   "@cucumber/cucumber": "^9.0.1",
21   "@types/chai": "^4.3.5",
22   "@types/chai-json-pattern": "^1.1.0",
23   "@types/cookie-parser": "^1.4.3",
24   "@types/cucumber": "^7.0.0",
25   "@types/datejs": "^0.0.33",
26   "@types/express": "^4.17.17",
27   "@types/express-actuator": "^1.8.0",
28   "@types/jsonwebtoken": "^9.0.1",
29   "@types/ms": "^0.7.31",
30   "@types/node": "^18.15.5",
31   "@types/swagger-ui-express": "^4.1.3",
32   "axios": "^1.3.4",
33   "chai": "^4.3.7",
34   "chai-json-pattern": "^1.1.0",
35   "cucumber-html-reporter": "^6.0.0",
36   "cucumber-tsflow": "^4.0.0-rc.11",
37   "nodemon": "^2.0.21",
38   "ts-node": "^10.9.1",
39   "typescript": "^5.0.2"
40 }
```

6 Anhang

6.1 GitLab Issues

Title	Assignee
FE Install Tailwindcss	Lucas Schießl
BE Create blueprint for backend	Christoph Herb
BE Add postgresql	Lucas Schießl
BE Add refresh endpoint	Christoph Herb
BE Add getting started documentation	Christoph Herb
DOC Create documentation	NaN
FE Create Figma Design	Christoph Herb
BE Create Database model	Hannes Ziereis
BE Implement swagger docs or create REST-API diagram manually	Lucas Schießl
FE Implement basic design	Lucas Schießl
FE First interaction with BE	Christoph Herb
FE Implement authentication with BE	Lucas Schießl
FE Cleanup frontend	Christoph Herb
FE Implement Nav Bar and design Login Form	Lucas Schießl
BE Endpoints for tasks	Hannes Ziereis
FE Interaction with tasks	Hannes Ziereis
BE Implement better logger	Christoph Herb
BE Hash password before saving into DB	Christoph Herb
FE Implement login in frontend	Lucas Schießl
FE style login form	Lucas Schießl
FE create Registration Form	Lucas Schießl
BE Add logout endpoint	Christoph Herb
FE Add error handling to login and registration form	Lucas Schießl
BE Fix tasks endpoint, swagger docs and cucumber tests	Christoph Herb
BE, FE Add docker support	Christoph Herb
FE Call Logout and refresh endpoints from frontend	Lucas Schießl
BE Fix bugs in backend	Christoph Herb
DOC Add postman collection	Christoph Herb
FE Add more functionality to task bar	Lucas Schießl
FE Add functionality to settings page	Lucas Schießl
FE Refactoring	Lucas Schießl
FE Refresh does not work as expected	Lucas Schießl
BE, FE Fix docker prod environment	Christoph Herb
BE Error messages for frontend	Christoph Herb
BE Sorting of tasks with date	Christoph Herb
BE Add filtering for categories	Christoph Herb
FE Add support for multiple languages	Lucas Schießl
FE Show taskdetails in task list	Hannes Ziereis
FE Refactor AppTask into its components	Hannes Ziereis

Continued on next page

Title	Assignee
BE Move password hashing to postgres	Christoph Herb
FE Cleanup	Christoph Herb
BE Generate secrets instead of hard coding	Christoph Herb
BE Add optional Tags to Tasks	Lucas Schießl
FE Fix token refresh endless loop	Christoph Herb
FE Add calendar for scheduled tasks	Christoph Herb
FE Show Tag in overview and details modal	Lucas Schießl
FE BUG - Modals opens two times	Christoph Herb
FE Detailed View - Done status doesn't update	Christoph Herb
FE Fix styling of task list	Christoph Herb
FE Edit Task in Detail modal	Hannes Ziereis
FE Improve modal	Christoph Herb

6.2 API Dokumentation

Tasks API

Overview

Backend API for the Tasks service.

MIT

Tags

Auth

Bearer authentication

Me

Me endpoint

Tasks

Task endpoint

User

User endpoint

Security

Type	Name	Scopes
apiKey	BearerAuth	

Paths

POST /api/v1/auth/login Login

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links

Code	Description	Links
500	Internal Server error <i>Content</i> application/json	No Links

GET /api/v1/auth/verify Verify logged in user

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

GET /api/v1/auth/refresh Refresh token after expiration of your access token

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links

Code	Description	Links
500	Internal Server error <i>Content</i> application/json	No Links

GET /api/v1/auth/logout Logout user

Responses

Code	Description	Links
204	success response	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

GET /api/v1/me Get infos about current logged in user

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

GET /api/v1/me/tasks Get tasks of current logged in user

Parameters

Type	Name	Description	Schema
query	orderBy <i>optional</i>	orderBy	enum (asc,desc)
query	sortBy <i>optional</i>	sortBy	enum (dueDate,isChecked,createdAt,updatedAt)
query	tag <i>optional</i>	tag	string
query	isChecked <i>optional</i>	isChecked	enum (false,true)

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

POST /api/v1/me/tasks Create a new Task with current user

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
400	Validation error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

GET /api/v1/me/tags Get Tags of tasks of current logged in user

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

GET /api/v1/tasks Get all Tasks

Parameters

Type	Name	Description	Schema
query	orderBy <i>optional</i>	orderBy	enum (asc,desc)
query	sortBy <i>optional</i>	sortBy	enum (dueDate,isChecked,createdAt,updatedAt)
query	tag <i>optional</i>	tag	string
query	isChecked <i>optional</i>	isChecked	enum (false,true)

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
403	Forbidden error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

POST /api/v1/tasks Create a new Task

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links

Code	Description	Links
400	Validation error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

GET /api/v1/tasks/{taskId} Get specific task

Parameters

Type	Name	Description	Schema
path	taskId <i>optional</i>	Task ID	string

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
403	Forbidden error <i>Content</i> application/json	No Links
404	NotFound error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

PUT /api/v1/tasks/{taskId} Update a Task

Parameters

Type	Name	Description	Schema
path	taskId <i>optional</i>	Task ID	string

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
400	Bad Request <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
403	Forbidden error <i>Content</i> application/json	No Links
404	NotFound error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

***DELETE* /api/v1/tasks/{taskId} Delete a Task**

Parameters

Type	Name	Description	Schema
path	taskId <i>optional</i>	Task ID	string

Responses

Code	Description	Links
204	success response	No Links
400	Bad Request <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
403	Forbidden error <i>Content</i> application/json	No Links
404	NotFound error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

***PATCH* /api/v1/tasks/{taskId}/toggle Toggle the isChecked field**

Parameters

Type	Name	Description	Schema
path	taskId <i>optional</i>	Task ID	string

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
400	Bad Request <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
403	Forbidden error <i>Content</i> application/json	No Links
404	NotFound error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

GET /api/v1/users Get all users

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links

Code	Description	Links
403	Forbidden error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

POST /api/v1/users Create a new user

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
400	Validation error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

GET /api/v1/users/{userId} Get user by id

Parameters

Type	Name	Description	Schema
path	userId <i>optional</i>	userId	string

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
403	Forbidden error <i>Content</i> application/json	No Links
404	Not Found error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

PUT /api/v1/users/{userId} Update user by id

Parameters

Type	Name	Description	Schema
path	userId <i>optional</i>	userId	string

Responses

Code	Description	Links
200	success response <i>Content</i> application/json	No Links
401	Unauthorized error <i>Content</i> application/json	No Links

Code	Description	Links
403	Forbidden error <i>Content</i> application/json	No Links
404	Not Found error <i>Content</i> application/json	No Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

***DELETE* /api/v1/users/{userId}** Delete user by id

Parameters

Type	Name	Description	Schema
path	userId <i>optional</i>	userId	string

Responses

Code	Description	Links
204	success response	No Links
401	Unauthorized error <i>Content</i> application/json	No Links
403	Forbidden error <i>Content</i> application/json	No Links
404	Not Found error <i>Content</i> application/json	No Links

Code	Description	Links
500	Internal Server error <i>Content</i> application/json	No Links

Type	Name	Scopes
apiKey	BearerAuth	

Components

Schemas

BaseError

BaseError

Properties

Name	Description	Schema
errorCode <i>optional</i>	ErrorCode	number
errorMessage <i>optional</i>	ErrorMessage	string
details <i>optional</i>	Details	< ErrorSchema > array

LoginSchema

LoginSchema

Properties

Name	Description	Schema
email <i>required</i>	Email	string
password <i>optional</i>	Password	string

AuthLoginSchema

AuthLoginSchema

Properties

Name	Description	Schema
tokenType <i>optional</i>	Type of token	string
accessToken <i>optional</i>	Access token	string

JwtPayloadSchema

JwtPayloadSchema

Properties

Name	Description	Schema
userId <i>optional</i>	UserId	string
email <i>optional</i>	Email	string
isAdmin <i>optional</i>	IsAdmin	boolean

ErrorSchema

ErrorSchema

Properties

Name	Description	Schema
field <i>optional</i>	Field	string
value <i>optional</i>	Value <i>nullable</i>	string
replyCode <i>optional</i>	ReplyCode <i>nullable</i>	number
replyMessage <i>optional</i>	ReplyMessage <i>nullable</i>	string

CreateTaskSchema

CreateTaskSchema

Properties

Name	Description	Schema
title <i>required</i>	Title	string
userId <i>required</i>	UserId	string

Name	Description	Schema
description <i>optional</i>	Description	string
dueDate <i>optional</i>	Due date	string (date-time)
tag <i>optional</i>	Tag	string

CreateTaskMeSchema

CreateTaskMeSchema

Properties

Name	Description	Schema
title <i>required</i>	Title	string
description <i>optional</i>	Description	string
dueDate <i>optional</i>	Due date	string (date-time)
tag <i>optional</i>	Tag	string

UpdateTaskSchema

UpdateTaskSchema

Properties

Name	Description	Schema
title <i>optional</i>	Title <i>nullable</i>	string
description <i>optional</i>	Description <i>nullable</i>	string
dueDate <i>optional</i>	Due date <i>nullable</i>	string (date-time)
isChecked <i>optional</i>	Is completed? <i>nullable</i>	boolean
tag <i>optional</i>	Tag <i>nullable</i>	string

ReadTaskSchema

ReadTaskSchema

Properties

Name	Description	Schema
id <i>optional</i>	ID	string
userId <i>optional</i>	UserId	string
title <i>optional</i>	Title	string
description <i>optional</i>	Description	string
dueDate <i>optional</i>	Due date	string (date-time)
isChecked <i>optional</i>	Is Checked	boolean
tag <i>optional</i>	Tag	string

GetTasksWithSpecifiedTagSchema

GetTasksWithSpecifiedTagSchema

Properties

Name	Description	Schema
tag <i>optional</i>	Tag	string

CreateUserSchema

CreateUserSchema

Properties

Name	Description	Schema
email <i>required</i>	Email	string
firstName <i>required</i>	First Name	string
lastName <i>required</i>	Last Name	string
password <i>required</i>	Pasword	string

UpdateUserSchema

UpdateUserSchema

Properties

Name	Description	Schema
email <i>optional</i>	Email	string
firstName <i>optional</i>	First Name	string
lastName <i>optional</i>	Last Name	string
password <i>optional</i>	Password	string

ReadUserSchema

ReadUserSchema

Properties

Name	Description	Schema
id <i>optional</i>	Id	string
email <i>optional</i>	Email	string
firstName <i>optional</i>	First Name	string
lastName <i>optional</i>	Last Name	string
isAdmin <i>optional</i>	IsAdmin	boolean