

Αναφορά – Todos API

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<https://github.com/PanosPasch/todos-api>

Η αναφορά ακολουθεί τη δομή και τα παραδείγματα που παρουσιάζονται στο README του έργου.

1. Εκκίνηση Εφαρμογής (Getting Started)

Για την εκκίνηση του server της εφαρμογής χρησιμοποιείται η παρακάτω εντολή:

rails s

```
panospasch@Panagiotiss-MacBook-Pro todos-api % rails s
⇒ Booting Puma
⇒ Rails 8.1.2 application starting in development
⇒ Run 'bin/rails server --help' for more startup options
DEPRECATION WARNING: Rswag::Ui: WARNING: The method will be renamed to "openapi_endpoint" in v3.0 (called from block in <main> at /Users/panospasch/Apps/todos-api/config/initializers/rswag_ui.rb:11)
Puma starting in single mode...
* Puma version: 7.1.0 ("Neon Witch")
* Ruby version: ruby 4.0.0 (2025-12-25 revision 553f1675f3) +PRISM [arm64-darwin24]
* Min threads: 3
* Max threads: 3
* Environment: development
* PID: 57049
* Listening on http://127.0.0.1:3000
* Listening on http://[::1]:3000
Use Ctrl-C to stop
```

Η εφαρμογή εκτελείται τοπικά στη διεύθυνση:

BASE=http://localhost:3000

Η παραπάνω διεύθυνση χρησιμοποιείται ως βάση για όλα τα αιτήματα HTTP που παρουσιάζονται στη συνέχεια.

2. Authentication

Το API υποστηρίζει μηχανισμό αυθεντικοποίησης χρηστών μέσω token. Η διαδικασία περιλαμβάνει εγγραφή (Signup), σύνδεση (Login) και αποσύνδεση (Logout).

2.1 Signup

Η εγγραφή χρήστη πραγματοποιείται με αποστολή HTTP POST αιτήματος στο endpoint /signup. Με επιτυχή εγγραφή επιστρέφεται token αυθεντικοποίησης.

http POST \$BASE/signup

```
user={"email":"me@example.com","password":"Password1!","password_confirmation":"Password1!"}
```

```
panospasch@Panagiotiss-MacBook-Pro todos-api % http POST $BASE/signup \
user={"email":"me@example.com","password":"Password1!","password_confirmation":"Password1!"}

HTTP/1.1 201 Created
cache-control: no-store, private, must-revalidate
content-length: 76
content-type: application/json; charset=utf-8
etag: W/"271989f762adcc5943b2cacd73ed22"
referrer-policy: origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.01, sql.active_record;dur=4.55, start_transaction.active_record;dur=0.00, transaction.active_record;dur=3.79, process_action.action_controller;dur=260.93
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 5056ed8c-b662-4eb9-8c73-53ccb0f5a5de
x-runtime: 0.311666
x-xss-protection: 0

{
  "token": "4d64289c51c18c37ef8ffcd0cd4b745fb765910dff8fed3f1869ba37b27481"
```

2.2 Login

Η σύνδεση χρήστη πραγματοποιείται με HTTP POST αίτημα στο endpoint /auth/login. Με επιτυχή αυθεντικοποίηση επιστρέφεται token.

http POST \$BASE/auth/login user={"email":"me@example.com","password":"Password1!"}

```

panospasch@Panagiotiss-MacBook-Pro todos-api % http POST $BASE/auth/login user='{"email":"me@example.com","password":"Password1!"}'
HTTP/1.1 200 OK
cache-control: max-age=0, private, must-revalidate
content-length: 133
content-type: application/json; charset=utf-8
etag: W/"fe5ca8c87537165cf72969d277e39"
referrer-policy: strict-origin-when-cross-origin
server: thinик
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: cfcfb9b2-6699-479a-bebb-43511d48acf9
x-runtime: 0.248948
x-xss-protection: 0
{
  "token": "1402a5545b4ae963db58ecc40eaa883iad78a1b7245786ee2a1f37fa4f2cbda"
}

```

2.3 Logout

Η αποσύνδεση πραγματοποιείται με HTTP GET αίτημα στο endpoint /auth/logout, χρησιμοποιώντας το Bearer token στο header Authorization.

http GET \$BASE/auth/logout Authorization:"Bearer \$TOKEN"

```

panospasch@Panagiotiss-MacBook-Pro todos-api % http GET $BASE/auth/logout Authorization:"Bearer $TOKEN"
HTTP/1.1 200 OK
cache-control: max-age=0, private, must-revalidate
content-length: 24
content-type: application/json; charset=utf-8
etag: W/"8fe5e13bd7090d92c012d8ee076084c"
referrer-policy: strict-origin-when-cross-origin
server: thinик
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 4ea5f59e-9d13-42b9-8b2a-0fd878e18439
x-runtime: 0.017978
x-xss-protection: 0
{
  "message": "Logged out"
}

```

Μετά την αποσύνδεση, το token καθίσταται ανενεργό (revoke). Η επανάληψη του ίδιου αιτήματος αποδεικνύει ότι το token δεν είναι πλέον έγκυρο.

```

panospasch@Panagiotiss-MacBook-Pro todos-api % http GET $BASE/auth/logout Authorization:"Bearer $TOKEN"
HTTP/1.1 401 Unauthorized
cache-control: no-cache
content-length: 24
content-type: application/json; charset=utf-8
etag: W/"51305c5250592945dd6a9268813c329"
referrer-policy: strict-origin-when-cross-origin
server: thinик
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 872e000a-1787-4798-8cc2-5725ca4286b1
x-runtime: 0.014578
x-xss-protection: 0
{
  "error": "Unauthorized"
}

```

3. Todos Endpoints

Τα endpoints των Todos επιτρέπουν τη δημιουργία, ανάκτηση, ενημέρωση και διαγραφή εγγραφών.

3.1 Create Todo

http POST \$BASE/todos title="My first todo" created_by="Panos"

```

panospasch@Panagiotiss-MacBook-Pro todos-api % http POST $BASE/todos title="My first todo" created_by="Panos"
HTTP/1.1 201 Created
cache-control: max-age=0, private, must-revalidate
content-length: 133
content-type: application/json; charset=utf-8
etag: W/"51305c5250592945dd6a9268813c329"
referrer-policy: strict-origin-when-cross-origin
server: thinик
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 2e18492c-3ec8-4fe1-b5ee-d015c961aa9
x-runtime: 0.02542
x-xss-protection: 0
{
  "created_at": "2026-02-15T14:11:44.843Z",
  "created_by": "Panos",
  "id": 1,
  "title": "My first todo",
  "updated_at": "2026-02-15T14:11:44.843Z"
}

```

3.2 List Todos

http GET \$BASE/todos

```

● panospasch@Panagiotiss-MacBook-Pro todos-api % http GET $BASE/todos
HTTP/1.1 200 OK
cache-control: max-age=0, private, must-revalidate
content-length: 133
content-type: application/json; charset=utf-8
date: Mon, 14 Feb 2022 08:53:54 GMT
etag: W/"513d5cd2b592945dd66a9268813c329"
referer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.00, sql.active_record;dur=0.29, instantiation.active_record;dur=0.19, process_action.action_controller;dur=3.29
vary: Accept
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 7ed84fc-5eb2-4994-acb9-9225dd7a11f0
x-runtime: 0.012936
x-xss-protection: 0

{
  {
    "created_at": "2026-02-15T14:11:44.843Z",
    "created_by": "Panos",
    "id": 1,
    "title": "My first todo",
    "updated_at": "2026-02-15T14:11:44.843Z"
  }
}

```

(i) Restart Visual Studio Code to apply the latest update

3.3 Get Todo by ID

http GET \$BASE/todos/1

```

● panospasch@Panagiotiss-MacBook-Pro todos-api % http GET $BASE/todos/1
HTTP/1.1 200 OK
cache-control: max-age=0, private, must-revalidate
content-length: 133
content-type: application/json; charset=utf-8
date: Mon, 14 Feb 2022 08:53:54 GMT
etag: W/"513d5cd2b592945dd66a9268813c329"
referer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.01, sql.active_record;dur=0.26, instantiation.active_record;dur=0.10, process_action.action_controller;dur=5.76
vary: Accept
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 9abb9890-c74e-49d8-8956-183bb856195fe
x-runtime: 0.011928
x-xss-protection: 0

{
  "created_at": "2026-02-15T14:11:44.843Z",
  "created_by": "Panos",
  "id": 1,
  "title": "My first todo",
  "updated_at": "2026-02-15T14:11:44.843Z"
}

```

3.4 Update Todo

http PUT \$BASE/todos/1 title="Updated title"

```

● panospasch@Panagiotiss-MacBook-Pro todos-api % http PUT $BASE/todos/1 title="Updated title"
HTTP/1.1 204 No Content
cache-control: no-cache
referrer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.01, sql.active_record;dur=0.85, instantiation.active_record;dur=0.00, unpermitted_parameters.action_controller;dur=0.00, start_transaction.active_record;dur=0.00, transaction.active_record;dur=1.61, process_action.action_controller;dur=20.22
x-204: true
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 9abb9890-c74e-49d8-8956-183bb856195fe
x-runtime: 0.008434
x-xss-protection: 0


```

(i) Restart Visual Studio Code to apply the latest update

3.5 Delete Todo

http DELETE \$BASE/todos/1

```

● panospasch@Panagiotiss-MacBook-Pro todos-api % http DELETE $BASE/todos/1
HTTP/1.1 204 No Content
cache-control: no-cache
referrer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.01, sql.active_record;dur=3.22, instantiation.active_record;dur=0.21, start_transaction.active_record;dur=0.00, transaction.active_record;dur=0.56, process_action.action_controller;dur=31.33
x-204: true
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 9abb9890-c74e-49d8-8956-183bb856195fe
x-runtime: 0.038294
x-xss-protection: 0


```

(i) Restart Visual Studio Code to apply the latest update

4. Items Endpoints

Tα Items αποτελούν nested πόρους των Todos και διαχειρίζονται μέσω των αντίστοιχων endpoints.

Σε περίπτωση διαγραφής ενός Todo, δημιουργείται νέο Todo για τη συνέχιση των παραδειγμάτων.

http POST \$BASE/todos title="Todo with items" created_by="Panos"

TODO_ID=2

4.1 Create Item

http POST \$BASE/todos/\$TODO_ID/items name="Buy milk" done:=false

```

panospasch@Panagiotiss-MacBook-Pro todos-api % http POST $BASE/todos title="Todo with items" created_by="Panos"
x-xss-protection: 0

{
  "created_at": "2026-02-15T14:27:28.561Z",
  "created_by": "Panos",
  "id": 2,
  "title": "Todo with items",
  "updated_at": "2026-02-15T14:27:28.561Z"
}

● panospasch@Panagiotiss-MacBook-Pro todos-api % http POST $BASE/todos/$TODO_ID/items name="Buy milk" done:=false
HTTP/1.1 201 Created
cache-control: max-age=0, private, must-revalidate
content-length: 135
content-type: application/json; charset=utf-8
etag: W/"e5a1293495d5119148abccdf233864b0"
referer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.00, instantiation.active_record;dur=0.09, unpermitted_parameters.action_controller;dur=0.00, start_transaction.active_record;dur=0.00, transaction.active_record;dur=1.10
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 94cb320a-005-495b-a706-e3c327dc096d
x-runtime: 0.025455
x-xss-protection: 0

{
  "created_at": "2026-02-15T14:27:28.561Z",
  "done": false,
  "id": 1,
  "name": "Buy milk",
  "todo_id": 2,
  "updated_at": "2026-02-15T14:27:28.561Z"
}

```

4.2 Get Item

http GET \$BASE/todos/\$TODO_ID/items/1

```

● panospasch@Panagiotiss-MacBook-Pro todos-api % http GET $BASE/todos/$TODO_ID/items/1
HTTP/1.1 200 OK
cache-control: max-age=0, private, must-revalidate
content-length: 131
content-type: application/json; charset=utf-8
etag: W/"e5a1293495d5119148abccdf233864b0"
referer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.01, sql.active_record;dur=0.43, instantiation.active_record;dur=0.66, process_action.action_controller;dur=7.40
vary: Accept
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 94b69e3-c96b-41a9-b12b-61f729a22505
x-runtime: 0.012509
x-xss-protection: 0

{
  "created_at": "2026-02-15T14:28:30.703Z",
  "done": false,
  "id": 1,
  "name": "Buy milk",
  "todo_id": 2,
  "updated_at": "2026-02-15T14:28:30.703Z"
}

```

4.3 Update Item

http PUT \$BASE/todos/\$TODO_ID/items/1 done:=true

```

● panospasch@Panagiotiss-MacBook-Pro todos-api % http PUT $BASE/todos/$TODO_ID/items/1 done:=true
HTTP/1.1 204 No Content
cache-control: no-cache
referer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.00, sql.active_record;dur=1.66, instantiation.active_record;dur=0.69, unpermitted_parameters.action_controller;dur=9.39
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: ef0aa0ea-a1d9-470d-ae25-6b48d9aaf7f3
x-runtime: 0.015396
x-xss-protection: 0

```

4.4 Delete Item

http DELETE \$BASE/todos/\$TODO_ID/items/1

```

● panospasch@Panagiotiss-MacBook-Pro todos-api % http DELETE $BASE/todos/$TODO_ID/items/1
HTTP/1.1 204 No Content
cache-control: no-cache
referer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.00, sql.active_record;dur=1.89, instantiation.active_record;dur=0.36, start_transaction.active_record;dur=0.00, transaction.active_record;dur=0.01
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 1d39328f-a29e-4dd7-be1f-c0c06a3c6b89
x-runtime: 0.013969
x-xss-protection: 0

```

5. Swagger Documentation

Το API περιλαμβάνει πλήρως παραγόμενο αρχείο προδιαγραφής OpenAPI 3.0 μέσω του εργαλείου rswag.

Η δημιουργία του αρχείου OpenAPI πραγματοποιείται με την εντολή:

bundle exec rake rswag:specs:swaggerize

Η τεκμηρίωση είναι προσβάσιμη μέσω browser στη διεύθυνση:

<http://localhost:3000/api-docs>