

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://[::]: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: max-age=0, private, must-revalidate
content-length: 76
content-type: application/json; charset=utf-8
etag: W/"271909f762ad0cc5943b2cac6d73ed22"
referrer-policy: strict-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: 5856ed8c-b662-4eb9-8c73-53cbb9f5a5de
x-runtime: 0.311666
x-xss-protection: 0
{
  "token": "4d64289c51c18c37ef8ffcdad4b745fb765918dfff8fedd3f1869ba37b27481"
}
```

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@anagiotiss-MacBook-Pro todos-api % http POST $BASE/auth/login user="{\"email\":\"me@example.com\",\"password\":\"Password123\"}"
HTTP/1.1 200 OK
cache-control: max-age=0, private, must-revalidate
content-length: 76
content-type: application/json; charset=utf-8
etag: W/"f6a5ca7537165ca72969d279639"
referrer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.01, sql.active_record;dur=4.48, instantiation.active_record;dur=0.24, start_transaction.active_record;dur=0.00, transaction.active_record;dur=2.78, process_action.action_controller;dur=231.25
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: dfcb9d2-aca8-479a-bdbb-43311d48acf9
x-runtime: 0.248948
x-xss-protection: 0
{
  "token": "1402a5545b4ae963db58ecc40eaa831ad78a1b7245786ee2a17f37fa4f2cbda"
}

```

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@anagiotiss-MacBook-Pro todos-api % http GET $BASE/auth/logout Authorization:"Bearer $TOKEN"
panospasch@anagiotiss-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/"f6fe13bd798f6052c012d38ed7608dc"
referrer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.00, sql.active_record;dur=1.75, instantiation.active_record;dur=0.24, start_transaction.active_record;dur=0.00, transaction.active_record;dur=3.03, process_action.action_controller;dur=12.38
vary: Accept
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 4ea5f50e-9d19-42b9-8b2a-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@anagiotiss-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
referrer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.01, sql.active_record;dur=0.42, halted_callback.action_controller;dur=0.00, process_action.action_controller;dur=4.38
vary: Accept
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 8726805a-1787-4798-8cc2-5725ca4286b1
x-runtime: 0.014377
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@anagiotiss-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/"513d5c570592949d966a926813c329"
referrer-policy: strict-origin-when-cross-origin
server-timing: sql.active_record;dur=2.45, start_processing.action_controller;dur=0.00, unpermitted_parameters.action_controller;dur=0.00, start_transaction.active_record;dur=0.00, transaction.active_record;dur=1.19, process_action.action_controller;dur=6.34
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 2e18492d-3ec8-4fe1-b5ee-d015c961aaf9
x-runtime: 0.022942
x-xss-protection: 0
{
  "created_at": "2026-02-15T14:11:44.043Z",
  "created_by": "Panos",
  "id": 1,
  "title": "My first todo",
  "updated_at": "2026-02-15T14:11:44.043Z"
}

```

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
etag: W/"2ab3ef93c8803acc56a0731c3be"
referrer-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=3.23
vary: Accept
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 7ed84fc-5e2-4904-a1c8-9225dd7a11fe
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"
  }
]

```

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
etag: W/"513d5cd52b592945dd66a9268813c329"
referrer-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-49dd-8956-183b856195fe
x-runtime: 0.011920
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=0.05, instantiation.active_record;dur=0.30, 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-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 80b5f295-clc6-460b-b03b-1de9d992a692
x-runtime: 0.038424
x-xss-protection: 0

```

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-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 6abbe1a3-7bc8-4da0-a132-761ca5cd3af
x-runtime: 0.038290
x-xss-protection: 0

```

4. Items Endpoints

Τα 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": "2026-02-15T14:27:20.561Z",
  "created_by": "Panos",
  "id": 2,
  "title": "Todo with items",
  "updated_at": "2026-02-15T14:27:20.561Z"
}

panospasch@Panagiotiss-MacBook-Pro todos-api % TODO_ID=2
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/"e5a1293495d5119148a8ccdf233864b0"
referrer-policy: strict-origin-when-cross-origin
server-timing: start_processing.action_controller;dur=0.00, sql.active_record;dur=1.60, 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.
r=10.17
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-permitted-cross-domain-policies: none
x-request-id: 8c326a-7bc5-4956-af6e-e3c327dc096d
x-runtime: 0.025455
x-xss-protection: 0

{
  "created_at": "2026-02-15T14:27:20.561Z",
  "created_by": "Panos",
  "id": 2,
  "title": "Todo with items",
  "updated_at": "2026-02-15T14:27:20.561Z"
}

```

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/"e5a1293495d5119148a8ccdf233864b0"
referrer-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: 994b69e3-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
referrer-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: ef8aa0ea-b1d9-470d-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
referrer-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=0.00
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

To 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>