



Fullstack Developer Program
Express Restful API Error Handling

Instruction:

For submission,

1. Upload your source code in a zip file to Talentlabs Classroom. Please don't include the node_modules folder.
2. Upload this document as a PDF file as well.

Task 1 Express Application Generator:

Steps:

1. Execute the command: **npx express-generator --ejs express-lab-9**
2. Change directory into that new folder: **cd express-lab-9**
3. Install all npm packages: **npm install**
4. Start the server
 - Windows PowerShell:
\$env:DEBUG='express-lab-9:*'; npm start
 - Windows Command Prompt:
set DEBUG=express-lab-9:* & npm start
 - MacOS or Linus:
SET DEBUG=express-lab-9:* & npm start

Task 2 Reproduce Lecture Demo

Reproduce the slide 17 signup api:

localhost:3000/signup

POST localhost:3000/signup

Authorization Headers (2) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "username": "abc",
3   "password": "123565"
4 }
```

Body Cookies Headers (7) Test Results Status: 400

Pretty Raw Preview

```
{"errors":[{"value":"abc","msg":"Must be an email","param":"username","location":"body"}]}
```

My result:

http://localhost:3000/signup

POST http://localhost:3000/signup

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "username": "abc",
3   "password": "123456"
4 }
5
```

Body Cookies Headers (7) Test Results

Status: 400 Bad Request Time: 11 ms Size: 334 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "errors": [
3     {
4       "value": "abc",
5       "msg": "Must be an email",
6       "param": "username",
7       "location": "body"
8     }
9   ]
10 }
```

Task 3 Understand Validation

Try to add 2 more parameters to the Signup API

1. first_name

2. last_name

Both of them **should not be empty**.

My result:

http://localhost:3000/signup

POST http://localhost:3000/signup

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "username": "harrizazham98@gmail.com",
3   "password": "123456hsabguashgb",
4   "first_name": "Muhammad",
5   "last_name": "Harriz"
6 }
7
```

Body Cookies Headers (7) Test Results

Status: 200 OK Time: 19 ms Size: 274 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Supply correct parameters"
3 }
```

Task 4 Understand Validation Methods

Look at the “isLength” documentation here

<https://github.com/validatorjs/validator.js#validators>

Try to update the rule for the “password” parameter:

1. At least 5 characters
2. At most 10 characters

My result:

http://localhost:3000/signup

POST http://localhost:3000/signup

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2
3   "username": "harrizaham98@gmail.com",
4   "password": "123456hsabguashgb",
5   "first_name": "Muhammad",
6   "last_name": "Harriz"
7 }
```

Body Cookies Headers (7) Test Results Status: 400 Bad Request Time: 52 ms Size: 370 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "errors": [
3     {
4       "value": "123456hsabguashgb",
5       "msg": "At least 5 and at most 10 characters ",
6       "param": "password",
7       "location": "body"
8     }
9   ]
10 }
```

Task 5 Understand Special Validation Methods

Actually there is a “isStrongPassword” validator. Try to use this isStrongPassword validator to replace all the existing validators for the “password” field.

</talentlabs>

localhost:3000/signup

POST localhost:3000/signup

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "username": "abc@gmail.com",
3   "password": "123565"
4 }
```

Body Cookies Headers (7) Test Results Status:

Pretty Raw Preview

```
{
  "errors": [
    {
      "value": "123565",
      "msg": "Not strong enough.",
      "param": "password",
      "location": "body"
    }
  ]
}
```

My result:

http://localhost:3000/signup

POST http://localhost:3000/signup

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "username": "harrizazham98@gmail.com",
3   "password": "123",
4   "first_name": "Muhammad",
5   "last_name": "Harriz"
6 }
```

Body Cookies Headers (7) Test Results Status: 400 Bad Request Time: 61 ms Size: 335 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "errors": [
3     {
4       "value": "123",
5       "msg": "Not Strong Enough",
6       "param": "password",
7       "location": "body"
8     }
9   ]
10 }
```