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Fullstack Developer Program
Express Restful API Basic

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-8**
2. Change directory into that new folder: **cd express-lab-8**
3. Install all npm packages: **npm install**
4. Start the server
   - Windows PowerShell:
     $env:DEBUG='express-lab-8:*'; npm start
   - Windows Command Prompt:
     set DEBUG=express-lab-8:* & npm start
   - MacOs or Linus:
     SET DEBUG=express-lab-8:* & npm start

Task 2 Reproduce Lecture Demo

In the lecture we talk about this table

Endpoint	POST	GET	PUT	DELETE
/customers	**Bulk / Create** new customer(s)	**Retrieve** all customers	Bulk **update** of customers	**Remove** all customers
/customers/1 (/customers/:id)	**Create** a new customer with id = 1	**Retrieve** the details for customer 1	**Update** the details of customer 1 if it exists	**Remove** customer 1

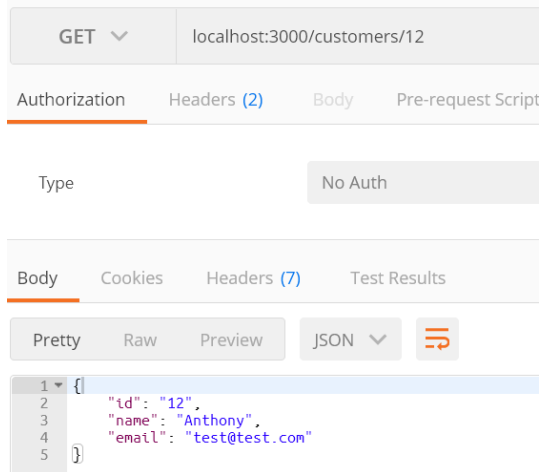Try to follow the lecture slides to reproduce these 8 routes on Express.

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Task 3 Test the endpoints with Postman

Download and install Postman https://www.postman.com/

In the Postman UI, you can see there are
- A drop down to select different HTTP methods.
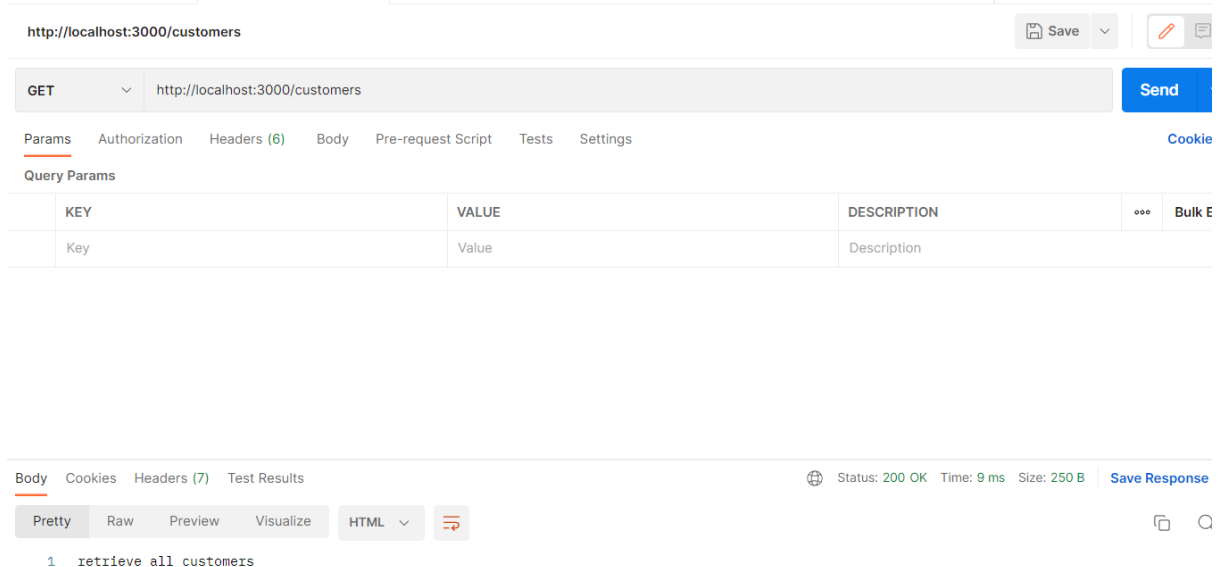- A text box to input the HTTP url.

An example of testing GET /customers/:id:

Test the all 8 endpoints with Postman and paste the screenshots here:

Endpoint /customers

GET

POST

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http://localhost:3000/customers

Save

POST ∨   http://localhost:3000/customers   Send

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

KEY	VALUE	DESCRIPTION	ooo	Bulk E
Key	Value	Description		

Body   Cookies   Headers (7)   Test Results   Status: 200 OK   Time: 8 ms   Size: 249 B   Save Response

Pretty   Raw   Preview   Visualize   HTML ∨   ⟲   ⧉   ⌕

1   create a new customer

PUT

http://localhost:3000/customers

Save

PUT ∨   http://localhost:3000/customers   Send

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

KEY	VALUE	DESCRIPTION	ooo	Bulk Edit
Key	Value	Description		

Body   Cookies   Headers (7)   Test Results   Status: 200 OK   Time: 10 ms   Size: 242 B   Save Response ∨

Pretty   Raw   Preview   Visualize   HTML ∨   ⟲   ⧉   ⌕

1   Update customer

DELETE

http://localhost:3000/customers   💾 Save ⌄   ✏️ 💬

| DELETE ⌄ | http://localhost:3000/customers | | **Send** ⌄ |

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

	KEY	VALUE	DESCRIPTION	∘∘∘ Bulk Edit
	Key	Value	Description	

Body   Cookies   Headers (7)   Test Results   🌐 Status: 200 OK   Time: 9 ms   Size: 242 B   Save Response ⌄

| Pretty | Raw | Preview | Visualize | HTML ⌄ | ⇄ | 📋 🔍

```
1   delete customer
```

Endpoint (/customers/:id)

GET

http://localhost:3000/customers/17   💾 Save ⌄   ✏️ 💬

| GET ⌄ | http://localhost:3000/customers/17 | | **Send** ⌄ |

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

	KEY	VALUE	DESCRIPTION	∘∘∘ Bulk Edit
	Key	Value	Description	

Body   Cookies   Headers (7)   Test Results   🌐 Status: 200 OK   Time: 7 ms   Size: 273 B   Save Response ⌄

| Pretty | Raw | Preview | Visualize | JSON ⌄ | ⇄ | 📋 🔍

```
1   {
2       "id": "17",
3       "name": "harriz",
4       "age": "23"
5   }
```

POST

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POST | http://localhost:3000/customers/17 | **Send**

Params | Authorization | Headers (7) | Body | Pre-request Script | Tests | Settings | Cookies

Query Params

	KEY	VALUE	DESCRIPTION	ooo	Bulk Edit
	Key	Value	Description		

Body | Cookies | Headers (7) | Test Results   Status: 200 OK Time: 8 ms Size: 273 B   Save Response

Pretty | Raw | Preview | Visualize | JSON

```
1  {
2      "id": "17",
3      "name": "harriz",
4      "age": "23"
5  }
```

PUT

PUT | http://localhost:3000/customers/17 | **Send**

Params | Authorization | Headers (7) | Body | Pre-request Script | Tests | Settings | Cookies

Query Params

	KEY	VALUE	DESCRIPTION	ooo	Bulk Edit
	Key	Value	Description		

Body | Cookies | Headers (7) | Test Results   Status: 200 OK Time: 8 ms Size: 273 B   Save Response

Pretty | Raw | Preview | Visualize | JSON

```
1  {
2      "id": "17",
3      "name": "harriz",
4      "age": "24"
5  }
```

DELETE

DELETE | http://localhost:3000/customers/17 | **Send**

Params | Authorization | Headers (6) | Body | Pre-request Script | Tests | Settings | Cookies

Query Params

	KEY	VALUE	DESCRIPTION	ooo	Bulk Edit
	Key	Value	Description		

Body | Cookies | Headers (7) | Test Results   Status: 200 OK Time: 7 ms Size: 235 B   Save Response

Pretty | Raw | Preview | Visualize | JSON

```
1  {}
```