Back-End Development

Exploring #5 Loopback Module





B Loopback

LoopBack is a highly-extensible, open-source Node.js framework that enables you to create dynamic end-to-end REST APIs with little or no coding, access databases and also Incorporate model relationships and access controls for complex APIs (http://loopback.io).

- Installation \$ npm install -g loopback-cli
- Check version
 \$ 1b -v



On terminal, type:\$ lb



- What's the name of your application?
 Iin_loopback
- Enter name of the directory to contain the project: lin_loopback
- Which version of LoopBack would you like to use? 3.x (current)
- What kind of application do you have in mind? api-server
- Go to project directory:\$ cd lin_loopback
- Run the application:
 \$ node.
- Web server listening at: http://localhost:3000
- > Browse your REST API at http://localhost:3000/explorer

http://localhost:3000/explorer

	LoopBack API Explorer	Token Set. accessToken Set Access Token
User		Show/Hide List Operations Expand Operations
PATCH	/Users	Patch an existing model instance or insert a new one into the data source.
GET	/Users	Find all instances of the model matched by filter from the data source.
PUT	/Users	Replace an existing model instance or insert a new one into the data source.
POST	/Users	Create a new instance of the model and persist it into the data source.
PATCH	/Users/{id}	Patch attributes for a model instance and persist it into the data source.
GET	/Users/{id}	Find a model instance by {{id}} from the data source.
HEAD	/Users/{id}	Check whether a model instance exists in the data source.
PUT	/Users/{id}	Replace attributes for a model instance and persist it into the data source.
DELETE	/Users/{id}	Delete a model instance by {{id}} from the data source.
GET	/Users/{id}/accessTokens	Queries accessTokens of User.
POST	/Users/{id}/accessTokens	Creates a new instance in accessTokens of this model.
DELETE	/Users/{id}/accessTokens	Deletes all accessTokens of this model.
GET	/Users/{id}/accessTokens/{fk}	Find a related item by id for accessTokens.
PUT	/Users/{id}/accessTokens/{fk}	Update a related item by id for accessTokens.
DELETE	/Users/{id}/accessTokens/{fk}	Delete a related item by id for accessTokens.

Set App

By default, we must set token for accessing loopback API. To use its API without any authentication, do these steps:

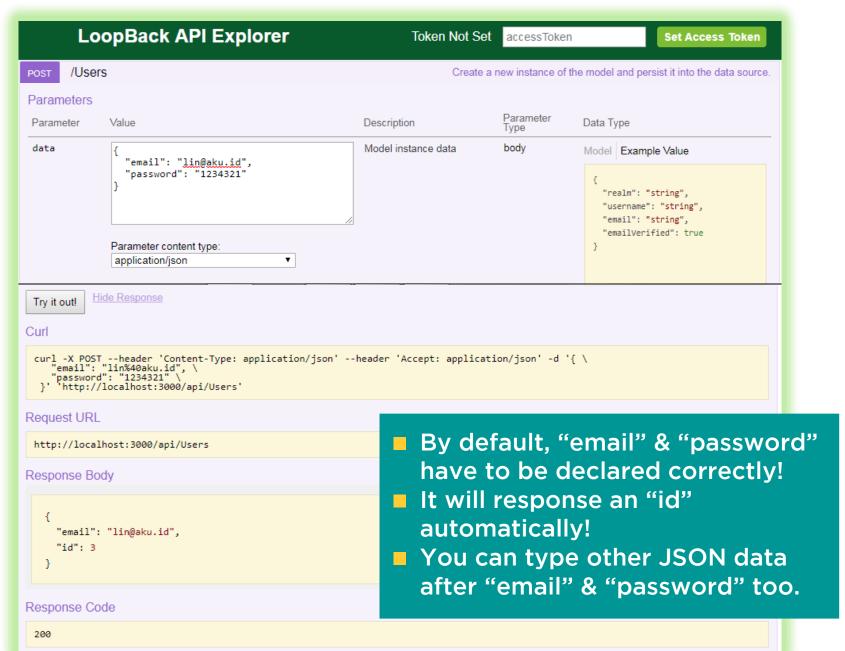
> Go to projectDir/server/boot/authentication.js Comment this line: server.enableAuth();

Try to POST at POST/Users!
{
 "email" : "lintang@purwadhika.com",
 "password" : "123456"

Try to post custom data, then GET at GET/Users!



POST





LoopBack API Explorer

Token Not Set accessToken

Set Access Token

/Users

Find all instances of the model matched by filter from the data source.

Try it out!

Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:3000/api/Users'
```

Request URL

```
http://localhost:3000/api/Users
```

Response Body

```
"email": "sasas@kokok.mama",
"id": 1
"email": "sasaas@kokoak.mama",
"id": 2
"email": "lin@aku.id",
"id": 3
```

It will response an "id" & hide the "password" automatically!

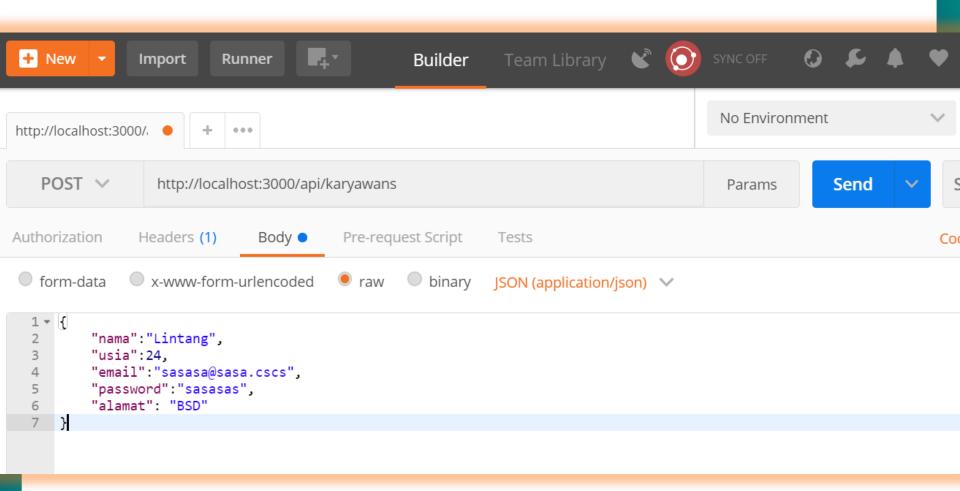


- A powerful GUI platform to make API development faster & easier, from building API requests through testing, documentation & sharing.
- Postman has features for every API developer: request building, tests & pre-request scripts, variables, environments & request descriptions, designed to work seamlessly together.
- Download from *getpostman.com*

Try to POST & GET with POSTMAN!



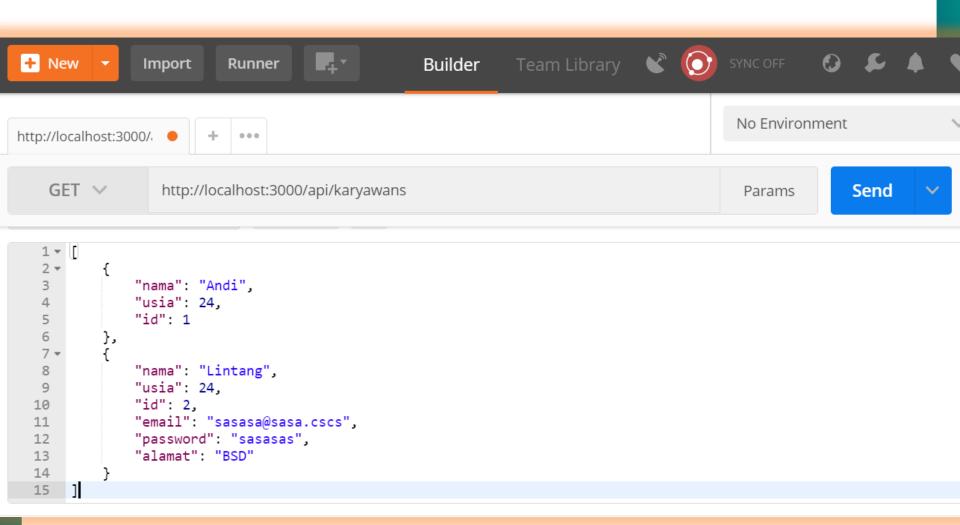
POST with POSTMAN



Set Header Request to
Content-Type: application/json



GET with POSTMAN





Create Model

- On directory project, type:\$ lb model
- > [?] Enter the model name: karyawan
- > [?] Select the data-source to attach person to: db
- > [?] Select model`s base class (PersistedModel)
- > [?] Expose person via the REST API? Yes
- > [?] Custom plural form (used to build REST URL):
- > [?] Common model or server only? *Common*
- Let's add some person properties now.

Enter an empty property name when done.

- > [?] Property name: id
- > [?] Property type: (Use arrow keys) *number*
- [?] Required? (y/N) y
- Property "id" is a must! After done, try to run its app via terminal: \$ node.

Create Model

LoopBack API Explorer

Token Not Set

accessToken

lin_loopback

karyawan

Show/Hide | List Operation

User

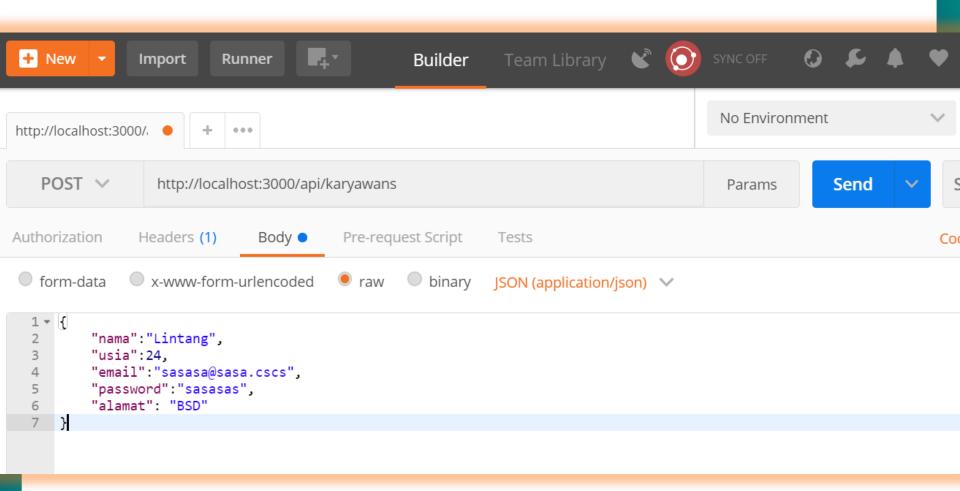
Show/Hide List Operation

BASE URL: /api , API VERSION: 1.0.0]

Try to POST & GET with POSTMAN!



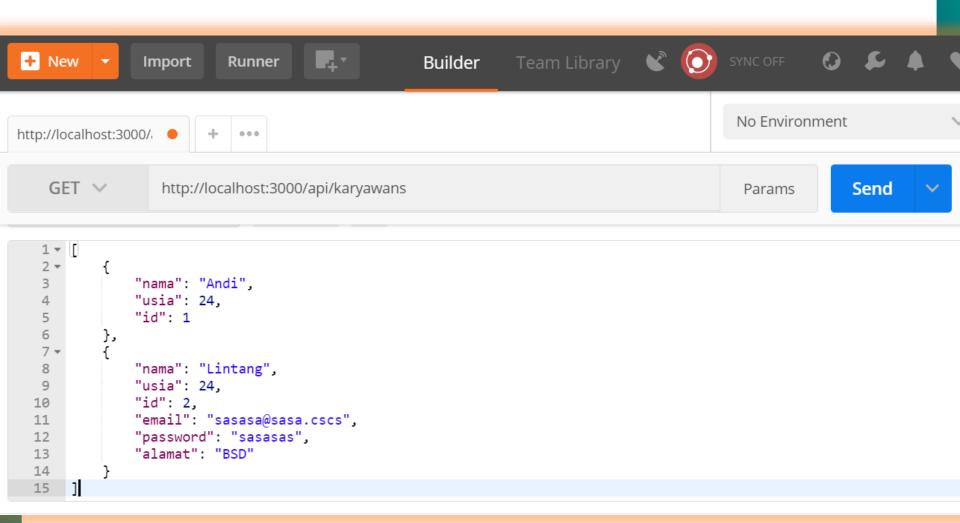
POST with POSTMAN



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GET with POSTMAN





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