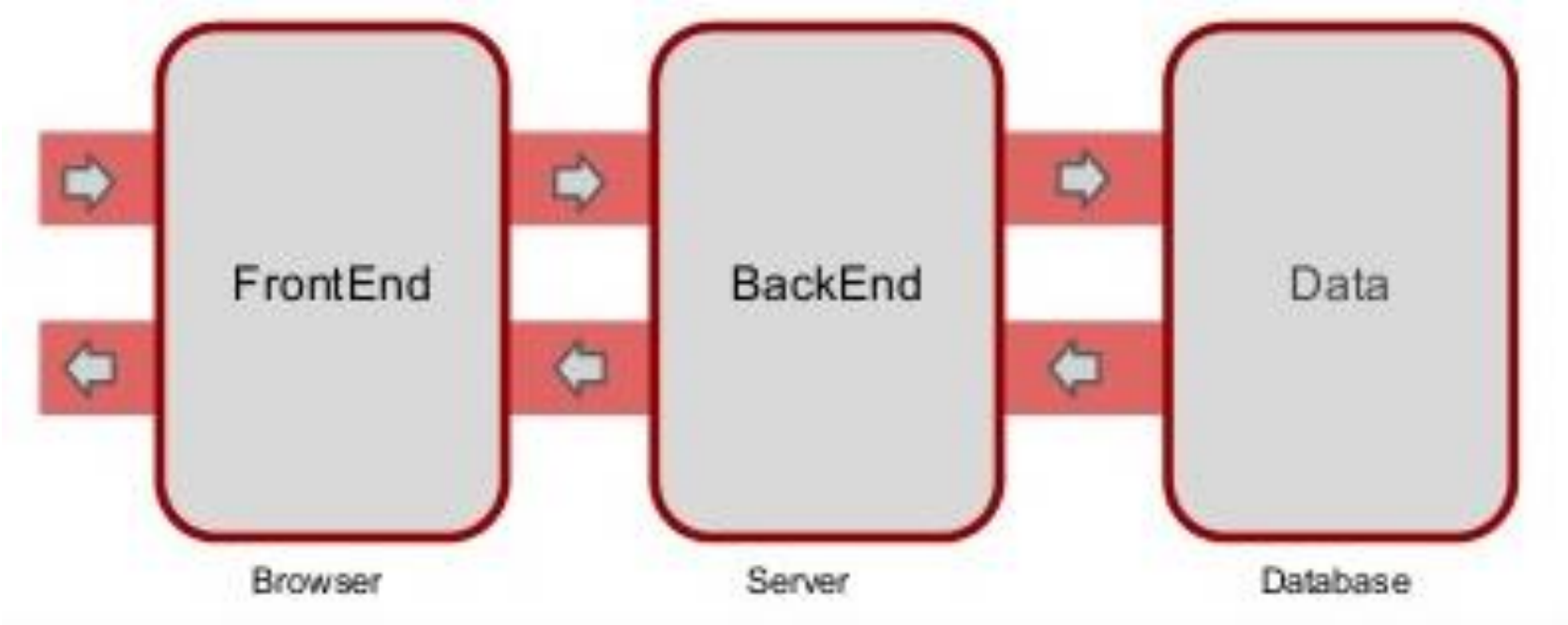
Back-End Development

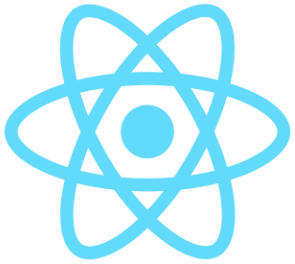
Connecting

#12a Loopback & MySQL

Purwadhika
Startup and Coding School

Web App Architecture





Loopback & MySQL

Purwadhika
Startup and Coding School

#1 Activate MySQL Server

Via Command Prompt, go to *mysql.exe* directory ***C:\xampp\mysql\bin*** then execute:

```
$ mysql.exe --user=root --password=12345
```

or

```
$ mysql.exe -u lintang -p12345
```

```
C:\Users\lintangwisesa>cd C:\Program Files\MySQL\MySQL Server 5.7\bin

C:\Program Files\MySQL\MySQL Server 5.7\bin>mysql.exe --user=lintang --password=12345
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.21-log MySQL Community Server (GPL)

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

#2 Create Db & Table

- Create database toko on MySQL

```
$ create database toko;
$ show databases;
```

- Create table karyawan on toko db:

```
$ use toko;
$ create table karyawan(
  id smallint not null auto_increment,
  nama varchar(30),
  usia smallint,
  primary key (id));
$ show tables;
$ describe karyawan;
```

Purwadhika
Startup and Coding School

#3 MySQL Auth on Loopback

- Untuk MySQL versi 8.0++, gunakan user: root. Untuk mengaktifkan authentication dari Loopback, di database lakukan:

```
$ alter user 'root'@'localhost' identified
  with mysql_native_password by '12345';
```

Purwadhika
Startup and Coding School

#3 Create Loopback App

- Create a Loopback application:

```
$ npm install -g loopback-cli
$ lb
$ cd lin_loopback
```

- Comment line *server.enableAuth();* on /server/boot/authentication.js

- Activate its server by run `$ node .`

```
Web server listening at:
http://localhost:3000

Browse your REST API at
http://localhost:3000/explorer
```

#4 Set MySQL Connector

- **Install MySQL connector:**

```
$ npm i loopback-connector-mysql
$ lb datasource
```

```
? Enter the datasource name: mysql_lin //up to you!
? Select connector for mysql_lin: MySQL (StrongLoop)
? Connection String url to override other settings
  mysql://root:12345@localhost/toko
? host: localhost
? port: 3306
? user: root
? password: 12345
? database: toko
```

Purwadhika
Startup and Coding School

#5 Create Loopback Model

- **On directory project, type:**
  `$ lb model`

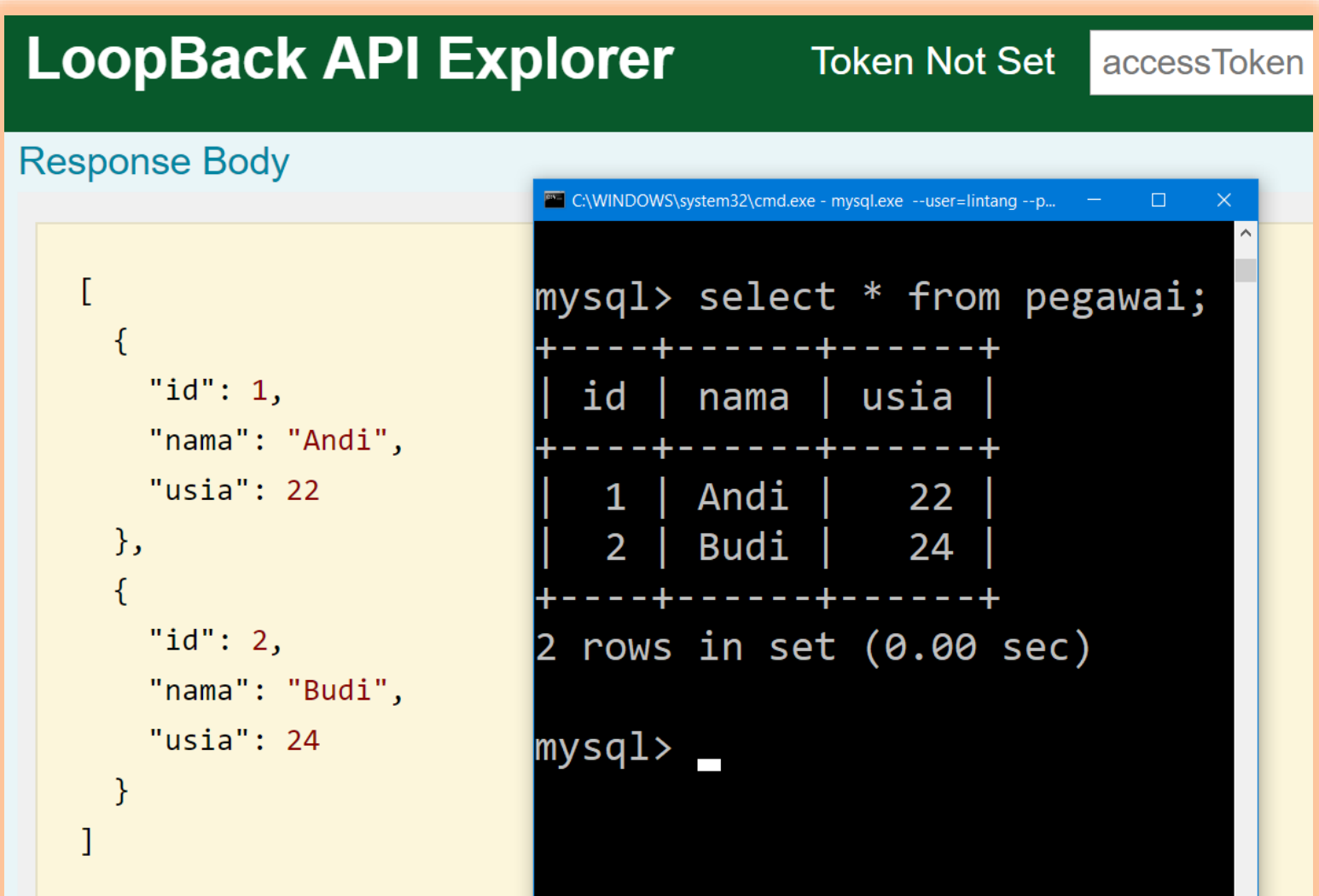
```
➢ [?] Enter the model name: karyawan //model = table!
➢ [?] Select source to attach to: mysql_lin (mysql)
➢ [?] Select model`s base class (PersistedModel)
➢ [?] Expose person via the REST API? Yes
➢ [?] Custom plural form (used to build REST URL):
➢ [?] Common model or server only? Common
Let's add some person properties now.

Enter an empty property name when done.
➢ [?] Property name: id
➢ [?] Property type: (Use arrow keys) number
➢ [?] Required? (y/N) y
```

Purwadhika
Startup and Coding School

#6 Try to POST & GET

- Run ***$ node .*** then try to POST & GET directly on Loopback explorer (***karyawan model***) or using Postman, then see your MySQL data (***karyawan table***)***!***



Loopback & MySQL Hosting

Free MySQL Hosting

Purwadhika
Startup and Coding School

Back-End Development

Connecting

#12a Loopback & MySQL

Purwadhika
Startup and Coding School