

Create models

Now that you've scaffolded the initial project, you're going to create a *CoffeeShop* model that will automatically have REST API endpoints.

Go into your new application directory, then run the LoopBack [model generator](#):

```
$ cd loopback-getting-started
$ slc loopback:model
```

The generator will prompt for a model name. Enter **CoffeeShop**:

```
[?] Enter the model name: CoffeeShop
```

It will ask if you want to attach the model to any data sources that have already been defined.

At this point, only the default in-memory data source is available. Press **Enter** to select it:

```
...
[?] Select the data-source to attach CoffeeShop to: (Use arrow keys)
db (memory)
```

Then the generator will prompt you for the base class to use for the model. Since you will eventually connect this model to a persistent data source in a database, press down-arrow to choose **PersistedModel**, then press **Enter**:

```
[?] Select model's base class: (Use arrow keys)
  Model
  PersistedModel
  ACL
  AccessToken
  Application
  Change
  Checkpoint
```

PersistedModel is the base object for all models connected to a persistent data source such as a database. See [LoopBack core concepts](#) for an overview of the model inheritance hierarchy.

One of the powerful advantages of LoopBack is that it automatically generates a REST API for your model. The generator will ask whether you want to expose this REST API.

Hit **Enter** again to accept the default and expose the Person model via REST:

```
[?] Expose CoffeeShop via the REST API? (Y/n) Y
```

LoopBack automatically creates a REST route associated with your model using the *plural* of the model name. By default, it pluralizes the name for you (by adding "s"), but you can specify a custom plural form if you wish. See [Exposing models over REST](#) for all the details.

Press **Enter** to accept the default plural form (CoffeeShops):

```
[?] Custom plural form (used to build REST URL):
```

Next, you'll be asked whether you want to create the model on the server only or in the `/common` directory, where it can potentially be used by both server and [client LoopBack APIs](#). Keep the default, `common`, even though in this application you'll only be working with server-side models:

```
? Common model or server only?
common
server
```

Every model has properties. Right now, you're going to define one property, "name," for the CoffeeShop model.

Select **string** as the property type (press **Enter**, since string is the default choice):

```
Let's add some CoffeeShop properties now.
Enter an empty property name when done.
[?] Property name: name
    invoke    loopback:property
[?] Property type: (Use arrow keys)
string
number
boolean
object
array
date
buffer
geopoint
(other)
```

Each property can be optional or required. Enter **y** to make name required:

```
[?] Required? (y/N)
```

Then you'll be prompted to enter a default value for the property; press Enter for no default value:

```
? Default value[leave blank for none]:
```

Then, you'll be prompted to add another property. Follow the prompts to add a required property named "city."

```
Let's add another CoffeeShop property.
? Property name: city
? Property type: string
? Required? Yes
```

End the model creation process by pressing **Enter** when prompted for the name of the next property.

The model generator will create two files in the application's `common/models` directory that define the model: `coffee-shop.json` and `coffee-shop.js`.



The LoopBack [model generator](#), `slc loopback:model`, automatically converts camel-case model names (for example `MyModel`) to lowercase dashed names (`my-model`). For example, if you create a model named "FooBar" with the model generator, it creates files `foo-bar.json` and `foo-bar.js` in `common/models`. However, the model name ("FooBar") will be preserved via the model's name property.

Check out the project structure

For all the details of the canonical LoopBack application structure, see [Project layout reference](#).

Run the application

Start the application:

```
$ node .  
...  
Browse your REST API at http://0.0.0.0:3000/explorer  
Web server listening at: http://0.0.0.0:3000/
```

i Running your app with the `node` command is appropriate when you're developing on your local machine. Once you're ready to prepare for moving to production, you can run it with `slc start` to run it under control of StrongLoop Process Manager, that provides options for clustering, logging, monitoring, and much more. See [Operating Node applications](#) for more information on the power of the `slc` command-line tool.

Open your browser to <http://0.0.0.0:3000/> (on some systems, you may need to use <http://localhost:3000> instead). You'll see the default application response that displays some JSON with some status information; for example:

```
{"started": "2014-11-20T21:59:47.155Z", "uptime": 42.054}
```

Now open your browser to <http://0.0.0.0:3000/explorer> or <http://localhost:3000/explorer>. You'll see the StrongLoop API Explorer:

StrongLoop API Explorer Token Not Set [Set Access Token](#)

CoffeeShops [Show/Hide](#) | [List Operations](#) | [Expand Operations](#) | [Raw](#)

Users [Show/Hide](#) | [List Operations](#) | [Expand Operations](#) | [Raw](#)

[BASE URL: <http://0.0.0.0:3000/explorer/resources> , API VERSION: 0.0.0]

Through a set of simple steps using LoopBack, you've created a CoffeeShop model, specified its properties and then exposed it through REST.

Next: In [Use API Explorer](#), you'll explore the REST API you just created in more depth and exercise some of its operations.