

# **You Already Know**

Before we begin, let's see what we have covered till now:

- Agile
- Git
- SQL
- HTML or CSS
- JavaScript
- Angular



# Agile

An iterative approach to manage the development of a software project

#### **Git and GitHub**

A distributed version control system that helps handle software projects

#### **SQL** or **MySQL**

Relational Database Management System to store data in a structured way using tables



#### **HTML or CSS**

Design interactive web pages

#### **JavaScript**

Programming language for the web pages

#### **Angular**

A platform and framework by Google to create single page web applications using HTML and TypeScript



# A Day in the Life of an Automation Test Engineer

As an Automation Test Engineer, our key role is to test both client and server software with the latest test automation tools.

We shall be testing food delivery application built in Angular, Node as the front end with Spring Boot, Java, and MySQL/MongoDB as the backend.

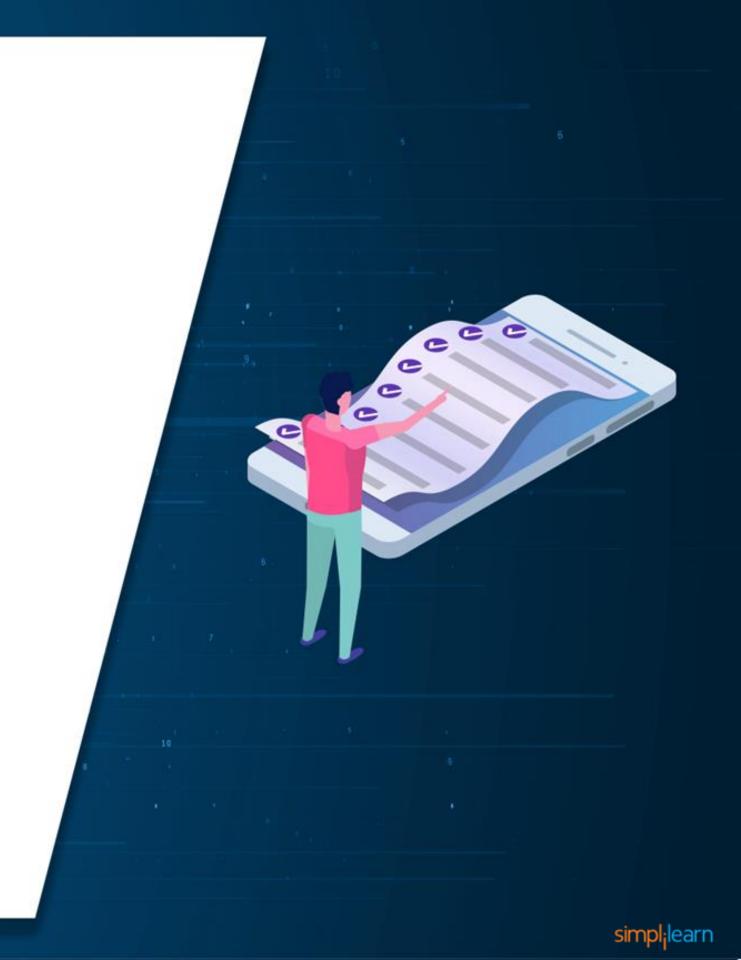
We will clone the developed Angular and Java projects and sync them to our Git repo. Further, we will create the database in MySQL and necessary tables required for the project to run.

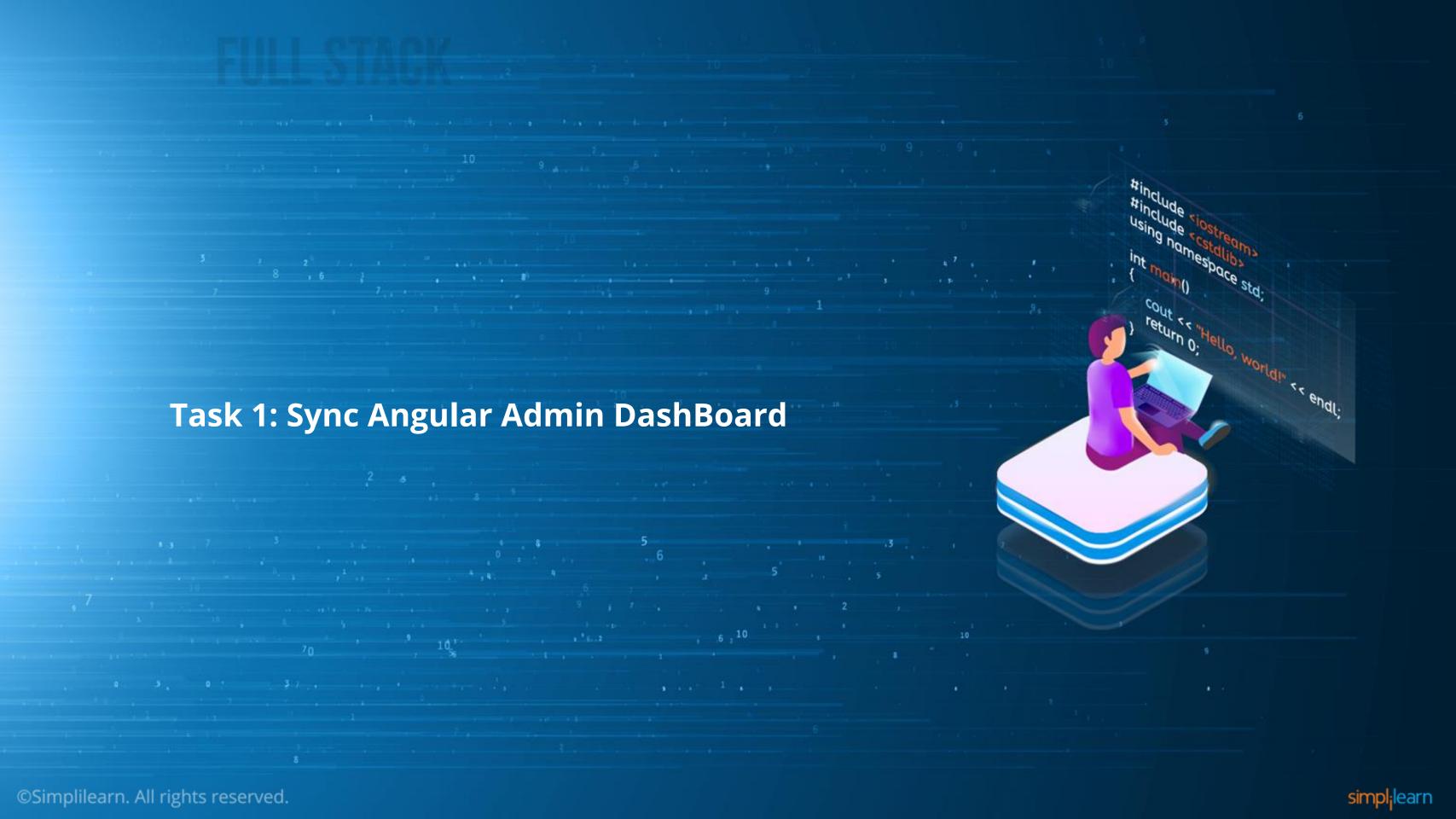


# **Learning Objectives**

By the end of this lesson, you will be able to:

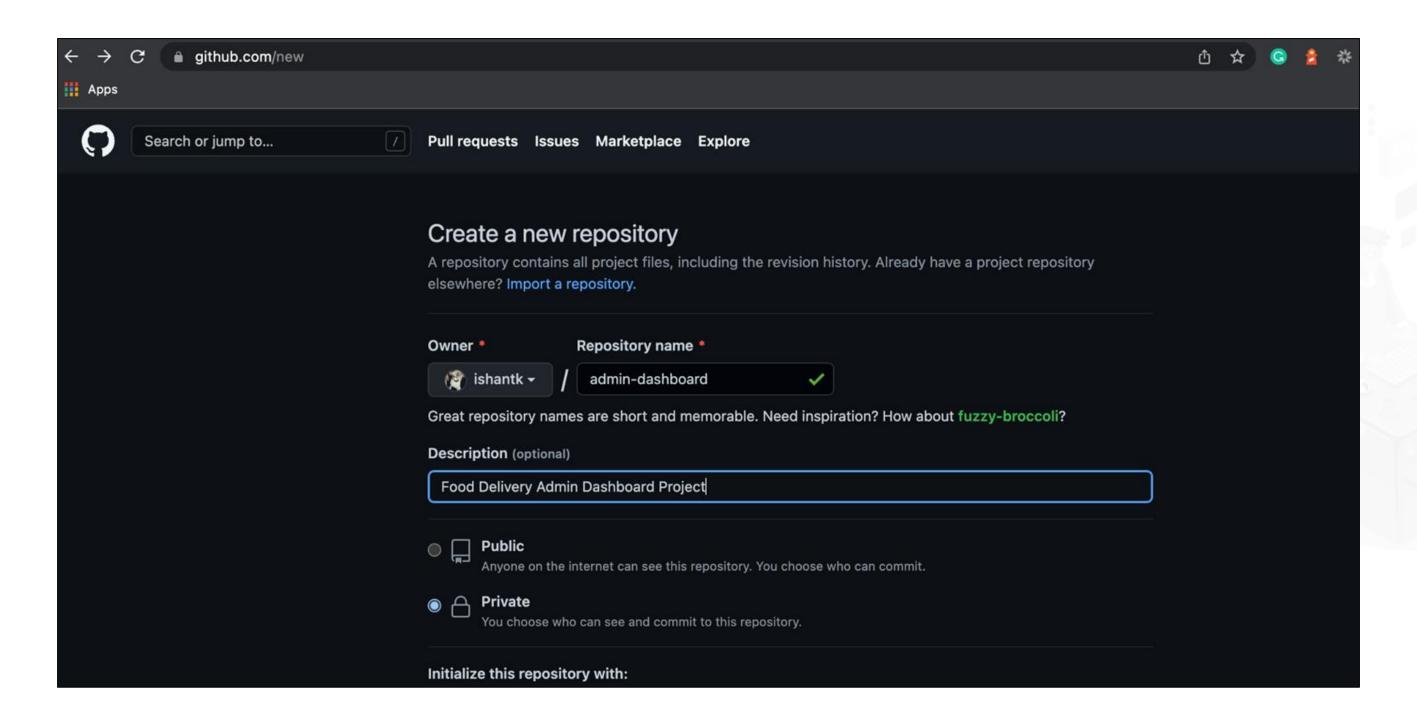
- Clone the code of Angular and Java Projects using Git on GitHub
- Push the code of Angular and Java Projects using Git on GitHub
- Create a database in MySQL
- Create tables required for the project in MySQL





# **Create a New Repository on Github**

Log in to your GitHub account and create a new repository for Admin Dashboard Project:





#### **Git Clone Command**

Simply navigate to any of your working directory on your terminal or shell window

Type the following command to clone the project from the repository:

• git clone https://github.com/username/foodinc-admin-dashboard.git

Change directory to foodinc-admin-dashboard using the command:

cd foodinc-admin-dashboard

Check the files in the project on the master branch:

|s

You will see the given file structure:

README.md package-lock.json tsconfig.app.json angular.json package.json tsconfig.json

karma.conf.js src tsconfig.spec.json



# **Git Remote Command**

Rename the local repository current origin to upstream:

git remote rename origin upstream

Add the remote origin:

git remote add origin https://github.com/username/admin-dashboard.git

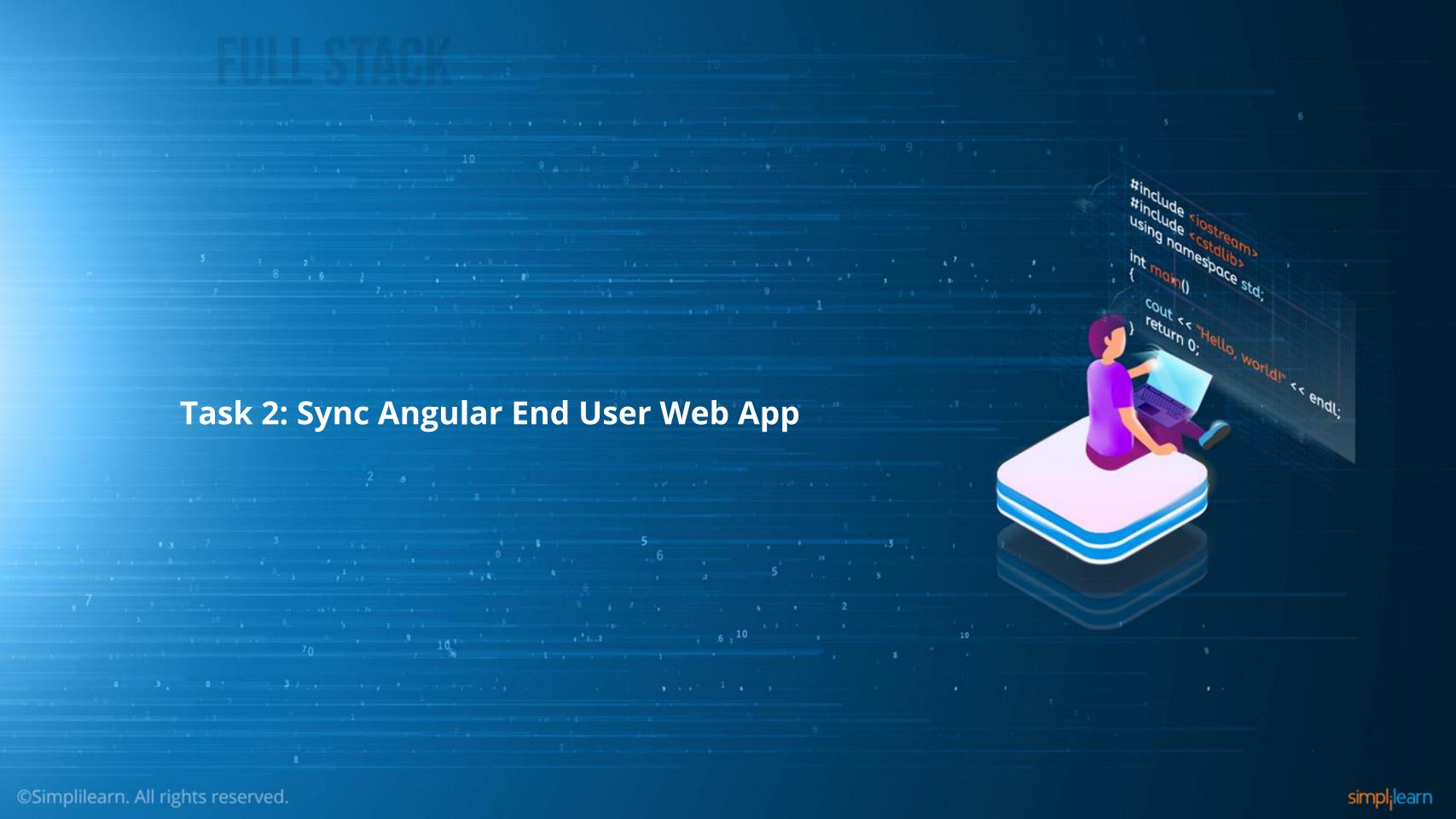


# **Git Push Command**

Finally, push the code to the Github account. Type the following command:

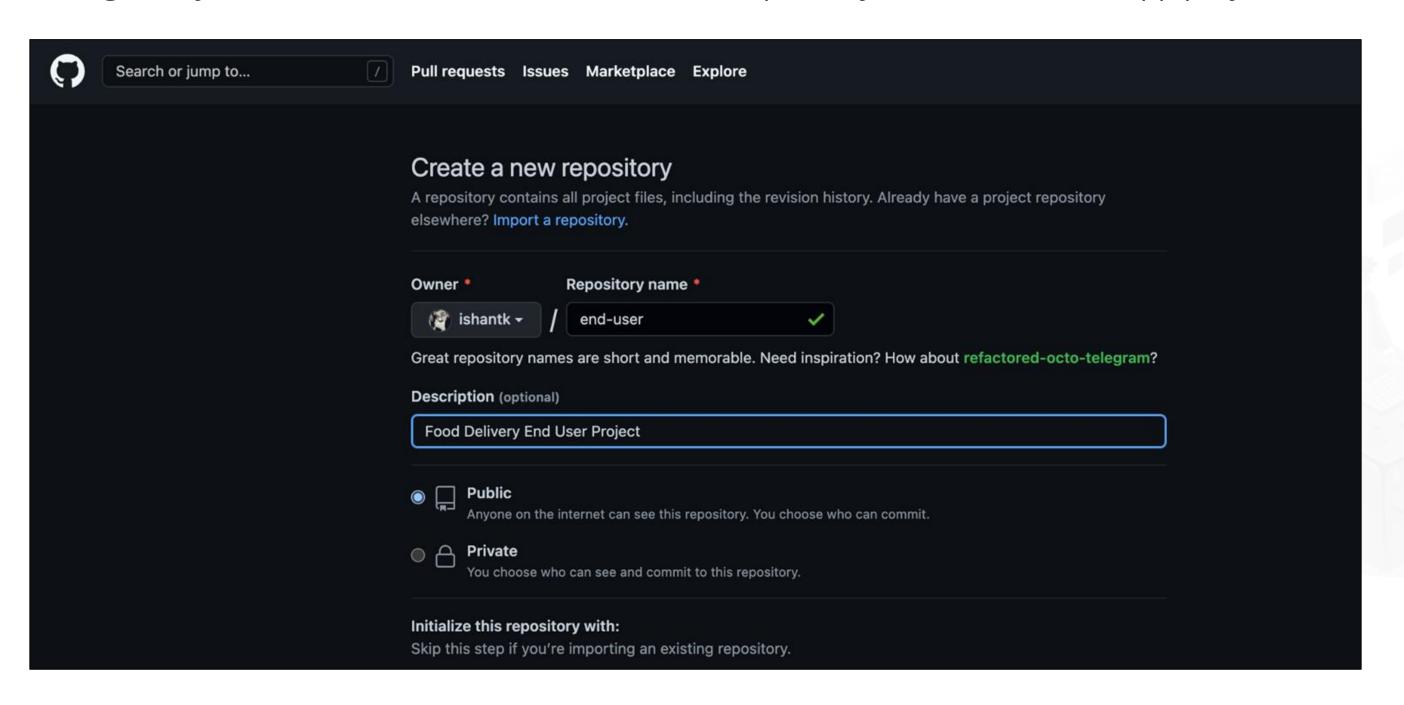
#### git push origin master

This command will update remote references using local ones while sending objects that are necessary to complete the given references.



# **Create New Repo on GitHub**

Log in to your GitHub account and create a new Repository for end user web app project:





#### **Git Clone Command**

Simply navigate to any of your working directory on your terminal or shell window

Type the command to clone the project from the repository: git clone https://github.com/username/foodinc-end-user.git

Change the directory to foodinc-end-user:

cd foodinc-end-user

Check the files in the project on the master branch:

Is

You will see the following file structure:

README.md package-lock.json tsconfig.app.json angular.json package.json tsconfig.json

karma.conf.js src tsconfig.spec.json



# **Git Remote Command**

Rename the local repository current origin to upstream:

git remote rename origin upstream

Add the remote origin:

git remote add origin https://github.com/username/end-user.git



# **Git Push Command**

Finally push the code to github account. Type the following command:

git push origin master

This command will update remote references using local ones while sending objects necessary to complete the given references.

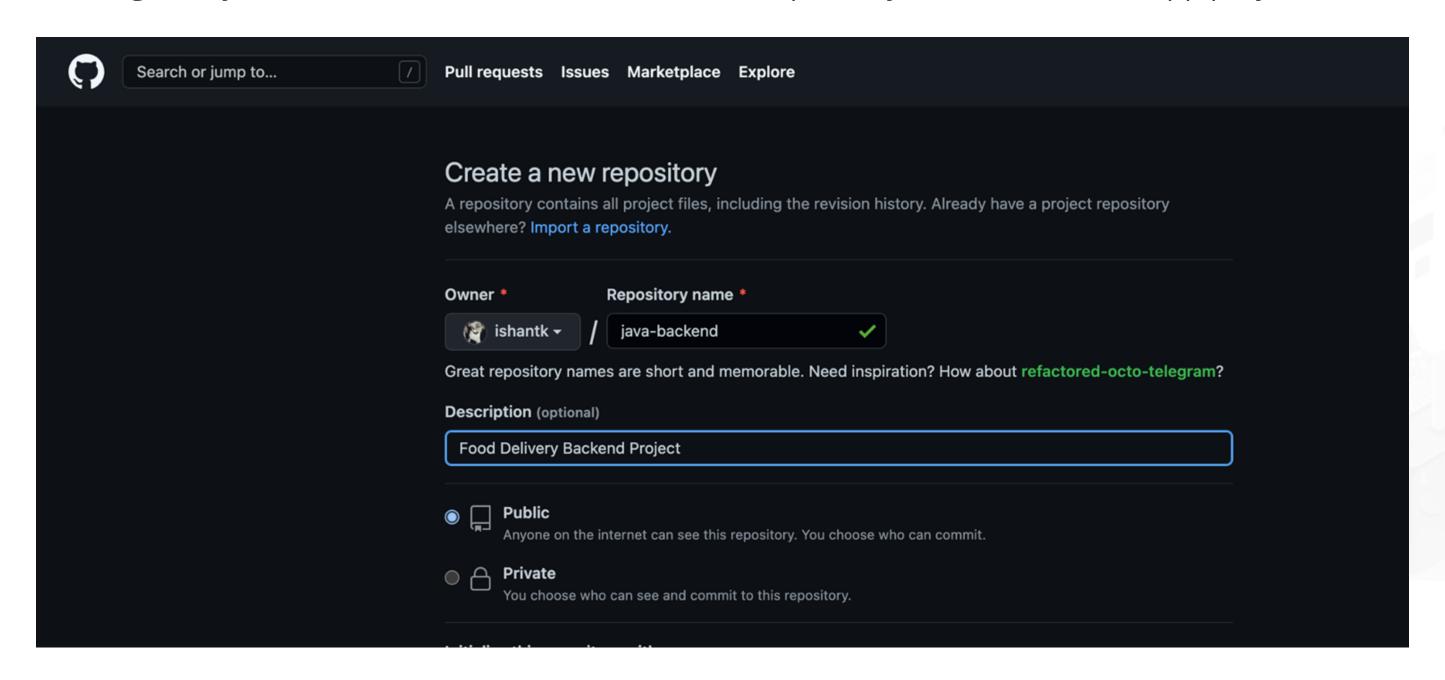


# Task 3: Sync Java Backend

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# **Create a New Repository on GitHub**

Log in to your GitHub account and create a new Repository for end user web app project:



#### **Git Clone Command**

Simply navigate to any of your working directory on you terminal or shell window

Type the following command to clone the project from the repository: git clone https://github.com/username/foodinc-java-backend.git

Change the directory to foodinc-java-backend: **cd foodinc-java-backend** 

Check the files in the project on the master branch: **Is** 

You will see the following file structure:

mvnw pom.xml mvnw.cmd src



# **Git Remote Command**

Rename the local repository current origin to upstream:

git remote rename origin upstream

Add the remote origin:

git remote add origin https://github.com/username/java-backend.git

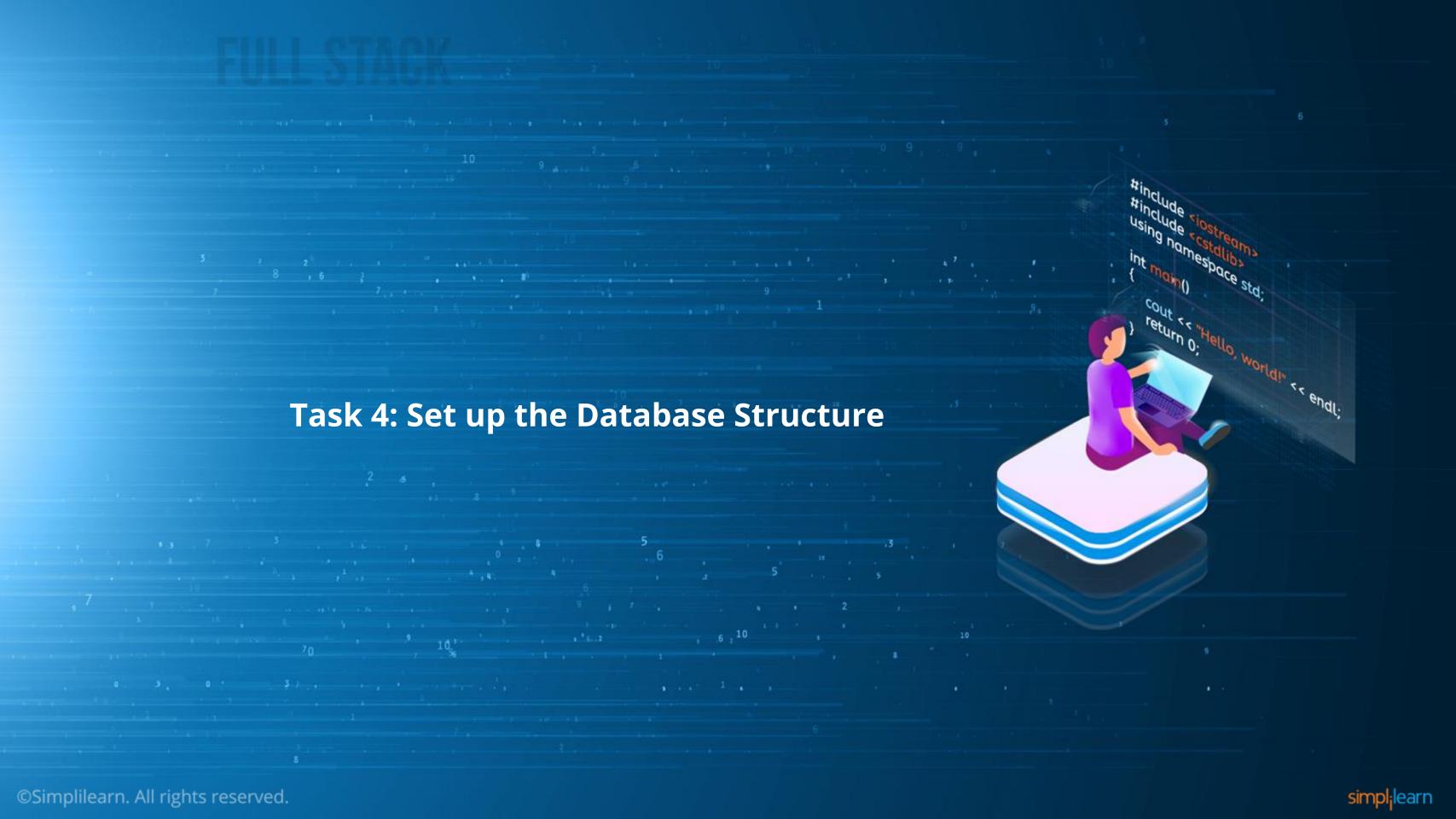


# **Git Push Command**

Finally, push the code to GitHub account. Type the given command:

git push origin master

This command will update remote references using local ones while sending objects necessary to complete the given references.



# **Creating DataBase in MySQL**

In MySQL CLI, use the given command to create and work with database:

#### create database foodie;

• This command creates the database foodie

#### use foodie;

• This command changes the current selection of the database to foodie.

# show tables;

• This command will list all the tables in the database. As of now, no Table is available so it will return an empty set.



# **Creating Tables** ©Simplilearn. All rights reserved.

#### **Create Admins Table**

You must make sure the database is selected as foodie, or you can execute the command to make the DB selection for foodie as:

```
CREATE TABLE `admins` (
`admin id` int NOT NULL,
 `added on` datetime(6) DEFAULT NULL,
 `email` varchar(255) DEFAULT NULL,
 `full name` varchar(255) DEFAULT NULL,
 `login type` int DEFAULT NULL,
 `password` varchar(255) DEFAULT NULL,
PRIMARY KEY (`admin id`)
```

#### **Create Users Table**

```
CREATE TABLE `users` (
`user_id` int NOT NULL,
 `added on` datetime(6) DEFAULT NULL,
 `contact` bigint DEFAULT NULL,
 `email` varchar(255) DEFAULT NULL,
 `full_name` varchar(255) DEFAULT NULL,
 `image` varchar(255) DEFAULT NULL,
 `password` varchar(255) DEFAULT NULL,
PRIMARY KEY (`user_id`)
);
```

#### **Create User Address Table**

```
CREATE TABLE `user_address` (
`address id` int NOT NULL,
 `address_tag` int DEFAULT NULL,
 `city` varchar(255) DEFAULT NULL,
 `country` varchar(255) DEFAULT NULL,
 `pincode` int DEFAULT NULL,
 `state` varchar(255) DEFAULT NULL,
`street` varchar(255) DEFAULT NULL,
`user id` int DEFAULT NULL,
PRIMARY KEY (`address id`)
);
```

#### **Create Restaurants Table**

```
CREATE TABLE `restaurants` (
`restaurant id` int NOT NULL,
 `added on` datetime(6) DEFAULT NULL,
 `address` varchar(255) DEFAULT NULL,
 `contact` bigint DEFAULT NULL,
 `description` varchar(255) DEFAULT NULL,
 `email` varchar(255) DEFAULT NULL,
 `name` varchar(255) DEFAULT NULL,
 `rating` int DEFAULT NULL,
 `thumbnail image` int DEFAULT NULL,
 `status` int DEFAULT NULL,
 PRIMARY KEY (`restaurant id`));
```

#### **Generate Dish Table**

```
CREATE TABLE `dishes` (
 `dish id` int NOT NULL,
 `added on` datetime(6) DEFAULT NULL,
 `description` varchar(255) DEFAULT NULL,
 `name` varchar(255) DEFAULT NULL,
 `price` int DEFAULT NULL,
 `rating` int DEFAULT NULL,
 `restaurant address` varchar(255) DEFAULT NULL,
 `restaurant id` int DEFAULT NULL,
 `restaurant name` varchar(255) DEFAULT NULL,
 `thumbnail image` int DEFAULT NULL,
 `status` int DEFAULT NULL,
 PRIMARY KEY (`dish id`));
```

#### **Generate Orders Table**

```
CREATE TABLE `orders` (
 `order id` int NOT NULL,
 `address` varchar(255) DEFAULT NULL,
 `contact` bigint DEFAULT NULL,
 `email` varchar(255) DEFAULT NULL,
 `items_sub_total` double DEFAULT NULL,
 `name` varchar(255) DEFAULT NULL,
 `order date` datetime(6) DEFAULT NULL,
 `order status` int DEFAULT NULL,
 `payment method` int DEFAULT NULL,
 `payment_method_title` varchar(255) DEFAULT NULL,
 `payment status` int DEFAULT NULL,
 `payment status title` varchar(255) DEFAULT NULL,
 `shipment charges` double DEFAULT NULL,
 `total amount` double DEFAULT NULL,
 `total items` int DEFAULT NULL,
 `user id` int DEFAULT NULL,
 PRIMARY KEY (`order_id`)
);
```



#### **Generate Order Items Table**

```
CREATE TABLE `order_items` (
 `order_item_id` int NOT NULL,
 `order id` int DEFAULT NULL,
 `price` int DEFAULT NULL,
 `product category` varchar(255) DEFAULT NULL,
 `product code` varchar(255) DEFAULT NULL,
 `product description` varchar(255) DEFAULT NULL,
 `product_id` int DEFAULT NULL,
 `product_img` varchar(255) DEFAULT NULL,
 `product_title` varchar(255) DEFAULT NULL,
 `quantity` int DEFAULT NULL,
 `total price` int DEFAULT NULL,
 PRIMARY KEY (`order_item_id`)
);
```

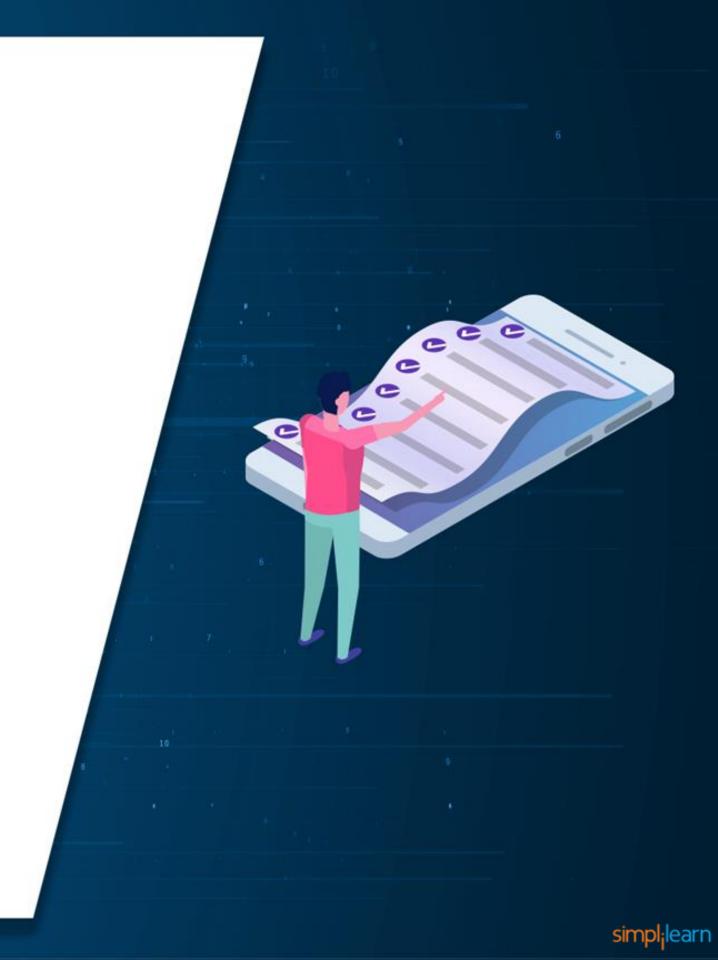


# **Generate Cart Table**

```
CREATE TABLE `cart` (
  `cart_id` int NOT NULL,
  `dish_id` int DEFAULT NULL,
  `quantity` int DEFAULT NULL,
  `user_id` int DEFAULT NULL,
  PRIMARY KEY (`cart_id`)
);
```

# **Key Takeaways**

- Users can perform hands-on tasks with Git commands.
- They can create a MySQL database.
- They can create tables for the project.
- They can push the code to a GitHub account.



# **Before the Next Class**

Since you have successfully completed this session, in the next discussion, you should know how to:

- Execute HTML and CSS
- Review Angular CLI
- Configure dependencies in Angular
- Brush up Protractor



# **What Next?**

#### In the next class, we will:

- Build and execute Angular admin dashboard
- Build and execute Angular end user web app
- Configure dependencies for Angular projects
- Configure Protractor for Angular projects

