# PROJECT NAME: BOOKING\_API

#### INTRODUCTION

It is a Laravel-9-API project containing information related to User's Booking for sports venues like futsal, cricksal, etc around specific places.

#### **HOW DOES AN API WORK?**

API is the messenger that delivers your request to provider that you're requesting it from and then delivers the response back to you.

In our case, provider is the back-end of the project created in laravel, where it fetches and stores data into database.

Requests are made by front-end side of the website.

### CREATE A LARAVEL PROJECT

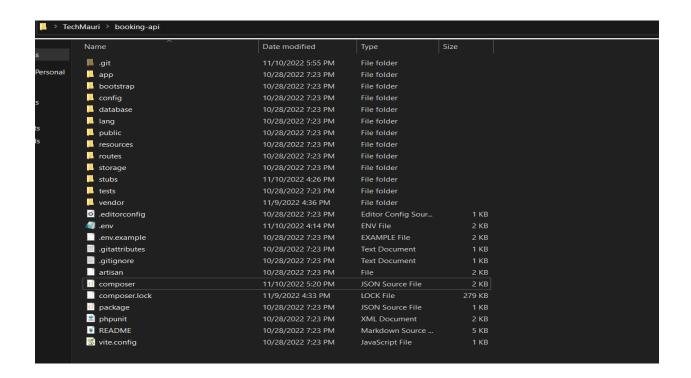
**Step 1:** Make sure you have PHP version 7.2.5 or greater. If not, install the latest version of XAMMP or PHP.

**Step 2:** Install composer.

Link: <a href="https://getcomposer.org/download/">https://getcomposer.org/download/</a>

**Step 3:** Open the command prompt or PowerShell window on the directory you want to install the laravel project and write the command: *composer create-project laravel/laravel example-app*.

It will take some time and the folder structure looks like in the picture below:



# **BACK-END**

## **DATABASE**

The name of the MySQL database is techmauri\_dev whose tables are attached with this file.

# **MODELS**

There are two models in the project:

**Booking**-for connecting the booking table from the database.

**User**-for connecting the users table from the database.

### **CONTROLLERS**

Booking\_api-This controller generates all the user's booking information API.

Route: Domain\_name/api/booking

**Post\_booking\_api**-This controller is a post API to add the booking details of the users to the database.

Route: Domain\_name/api/addbooking

**UserRegistration**-This controller is a post method API to register authorized user to the API.

Route: Domain\_name/api/register

**UserLogin** -This controller is also a post-method API to verify the user.

Route: Domain\_name/api/login

**Note:** In place of Domain\_name, localhost IP with port number should be used for local machines.

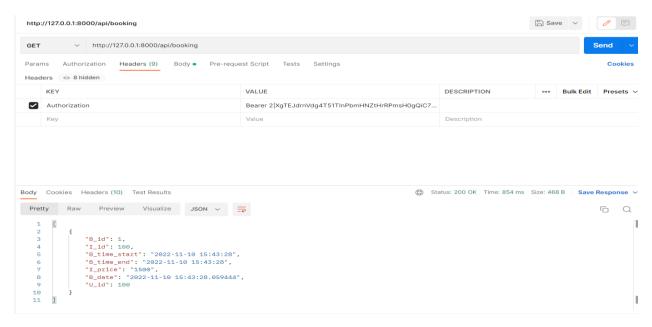
Example: <a href="http://127.0.0.1:8000/api/register">http://127.0.0.1:8000/api/register</a>.

### **SECURITY**

Sanctum authentication is done to avoid unauthorized access to the API.

Authentication tutorial: <a href="https://youtu.be/P2dfXpUHy6U">https://youtu.be/P2dfXpUHy6U</a>

# **API VERIFICATION IN POSTMAN**



# **FRONT-END**

Every end points like login, registration, booking data, item data needs to be presented in a user-friendly UI.

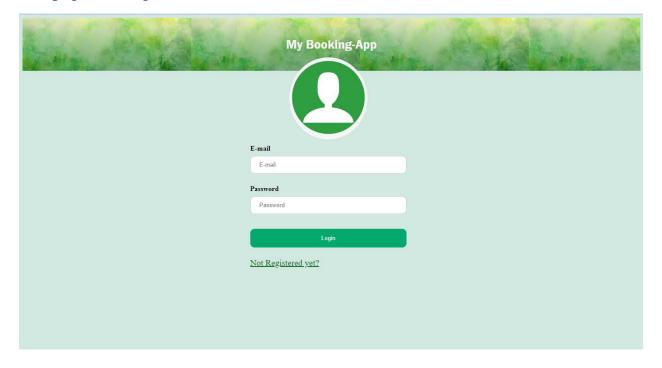
First, when we browse the UI, we are directed to the login page as it is a secure API.

# **Login Page**

The page verifies user who is accessing the website.

The page makes a post-api requests for the verification and acts on the basis of response from the back-end.

The page also registers user into a session with id and name.



# **Registration Page**

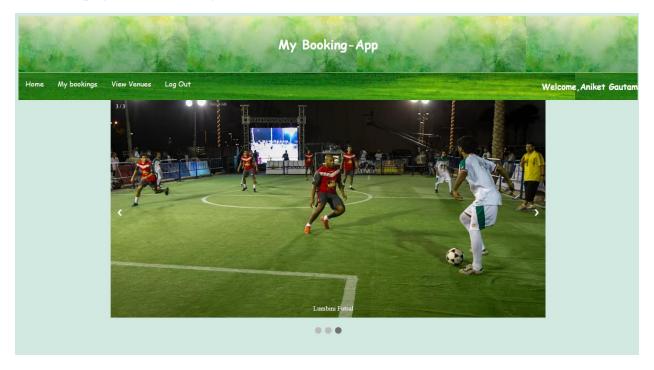
The page registers a new user to the system with some necessary requirements.

This page also makes a post api request and delivers data to the back-end where the back-end stores the user's into the database.

My Booking-App	
Name	
Name	
E-mail	
Password	
Password	
Confirm Password  Confirm Password	
Register	
Already registered?	

# **Home Page**

The first page where user gets directed.



### **Items Page**

This is the main page which makes get API requests to fetch all the required data from the API.

#### **Code in controller:**

#### Page view:



The Book Now button helps the user make booking for the venue by redirecting it to the Reservation confirmation page.

Search by category is also implemented to make it easier to find the desired venue.

## **Reservation Confirmation Page**

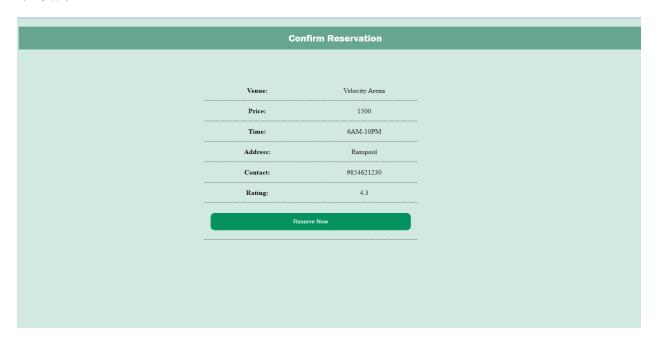
The page has some hidden inputs in order to make post requests like Item\_id, U\_id and Item price.

The page also reassures with the user for the confirmation.

When "Reserve Now" button is clicked, it makes a post-api request with the help of controller and stores the booking information into the database with the help of back-end.

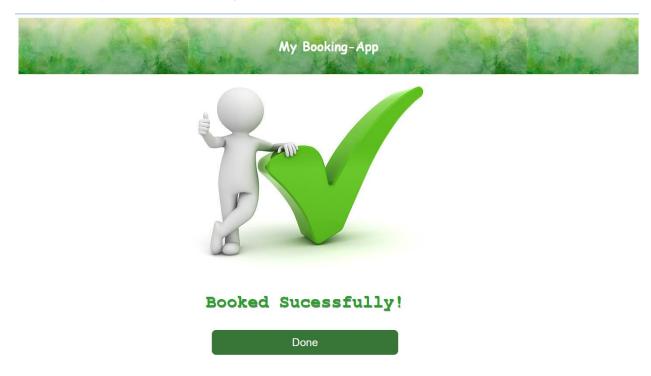
#### **Code in controller:**

#### View:



# **Booked Successfully Page**

After user confirms booking, he/she is directed to this page, displaying Successfully Booked" message to the user.



# **My Bookings Page**

This page displays all the booking for the specific users.

My Booking-App									
Home My bookings View Venues Log Out  Welcome, Aniket Gautan  My Bookings									
Name	Price	Opening Time	Closing Time	Address	Contact	Booked On			
Lumbini Futsal	1200	6AM	5PM	Chabahil	9856451230	2022- 12-06 17:21:34			
Highway Futsal	1200	6AM	SPM	Nayabasti	9856451235	2022- 12-06 17:56:3			
Dhanyentari Futsal	1500	6AM	SPM	Chabahil	9896456230	2022- 12-07 11:24:0			
Lumbini Futsal	1200	6AM	SPM	Chabahil	9856451230	2022- 12-07 15:33:4			
Lumbini Futsal	1200	6AM	5PM	Chabahil	9856451230	2022- 12-08 18:06:3			

# THANK YOUU!!!