

Researching Project IoT Platform using Laravel and Mobile App

‘ Week5 Report ’

Lecturer: Mr. HEL Chanthan

Prepared by Mr. VANNAK Sovannroth

2019-2020

Returning Visitor



Outline

- ❖ Planning for First Month
- ❖ Planning for Second Month
- ❖ Using Dashboard sample templates
- ❖ Creating Dashboard with sample template
- ❖ Dashboard show on backend
- ❖ View on backend project
- ❖ Coding for backend and database

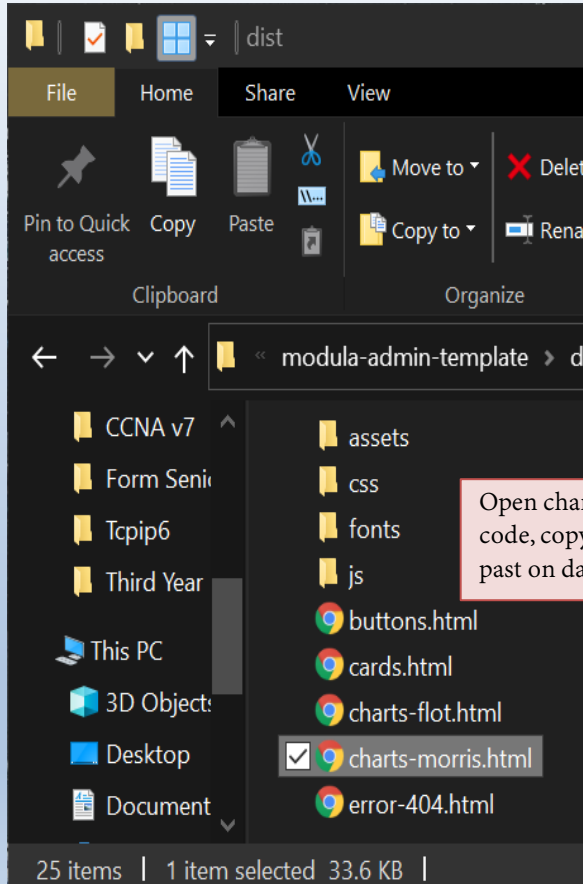
❖ Planning for First Month

Activity (Start on 06.08.2020)	Thursday (Presentation day)	Friday	Monday	Tuesday	Wednesday (Meeting day)
Week 1	Installation MongoDB (Shell and Compass) and connect localhost between Shell and Compass.(Locally)	Performing CRUD (Create, Read, Update, Delete) on Mongo Shell and MongoDB Compass.	Creating MongoDB Atlas account and connect it to Mongo Shell or MongoDB Compass, and Driver (Node.js).(Cloud)	Installation Visual Studio Code and connect driver to MongoDB Atlas.(Cloud)	Connecting sample Backend to MongoDB Cluster and storing Products in the Database.
Week 2	Connecting driver to Mongo Shell.(Locally)	Starting to build sample backend connect with or without MongoDB Atlas.	Build creating, editing and deleting Products on server.	Transmitting and fetching data to/from the Database.	Creating Login and Signup. (Email and password)
Week 3	Learning template Bootstrap 4	Install wampserver and Laravel	Run Laravel server with MySQL(Database)	Choose free template Bootstrap for Front-End & Backend	Installation Laravel Module for Backend and Front-End
Week 4	Starting to build backend for project. & Creating Login and Signup.	User management: <ul style="list-style-type: none"> • Create new user • Reset user password • Delete and edit user 	Manage Info: <ul style="list-style-type: none"> • Logo • Name • Contact info • Map • Social 	Manage new category: <ul style="list-style-type: none"> • Create new category • Edit and delete exiting categories. 	Manage news: <ul style="list-style-type: none"> • Post news • Edit news • Delete news

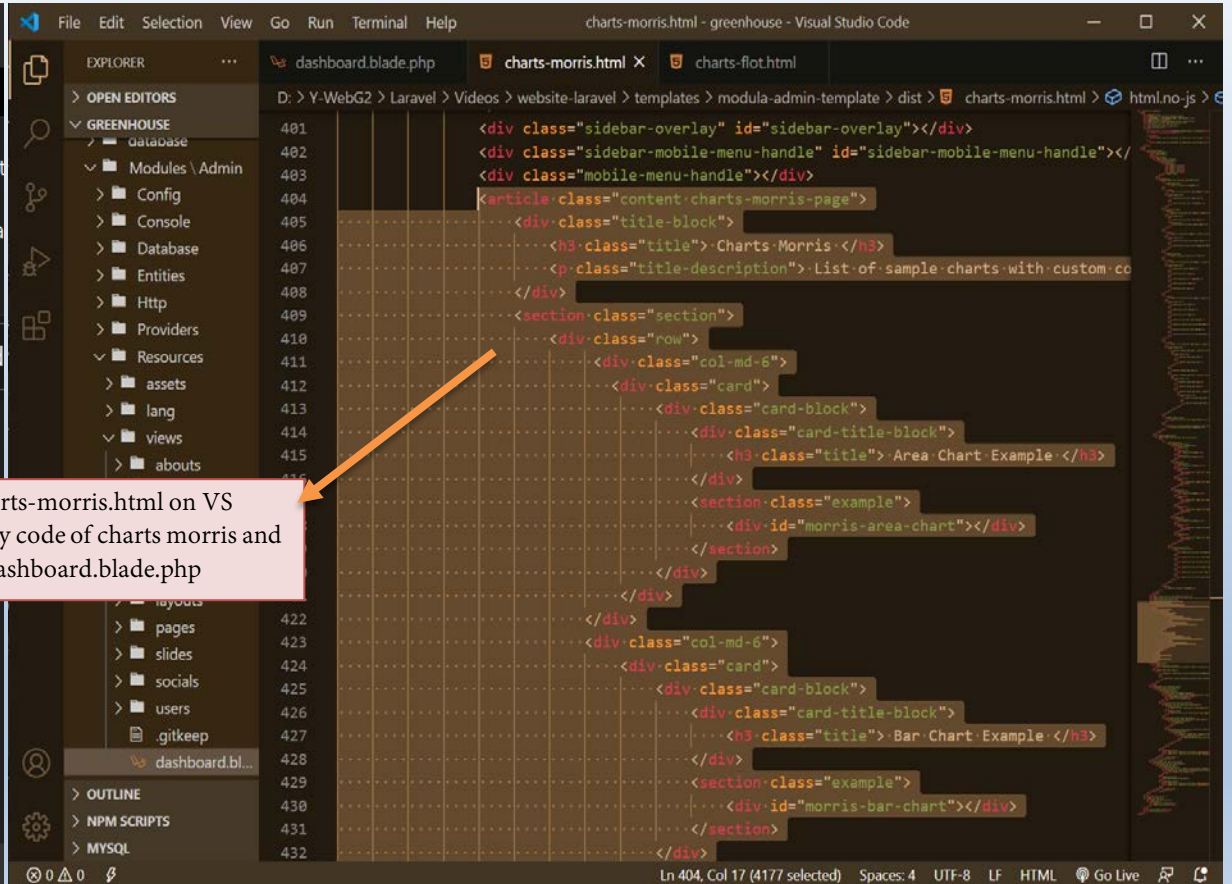
❖ Planning for Second Month

Activity (Start on 06.08.2020)	Thursday (Presentation day)	Friday	Monday	Tuesday	Wednesday (Meeting day)
Week 5	Create Dashboard	Create Dashboard	Manage Calculate: <ul style="list-style-type: none"> • Addition • Subtraction • Multiplication • Division 	Write API & Read API	Write API & Read API
Week 6	Connect to ESP8266 or NodeMcu & fetch data from Arduino	Get data from Sensors and Calculate.	Show data on Dashboard	Connect Backend to Front-End	Front-End fetch data from Backend
Week 7	Choose Flutter or React Native for build Mobile App.	Learning Flutter or React native	Start build sample project	Create Horizontal list view & build recent products grid view.	Manage Info: <ul style="list-style-type: none"> • Product details • Home page Ui modification • Shopping cart & list page • User login & Register • Contact info
Week 8	Creating Users, brand and category on database & Adding products to the database.	Auto complete search for categories and brands & Uploading Images to firebase.	Login and signup screen redesign & Google sign in for IOS and Android .	Firebase Auth using provider package & Dashboard UI/UX and Database product modeling.	Load products from firebase part & loading products from database.

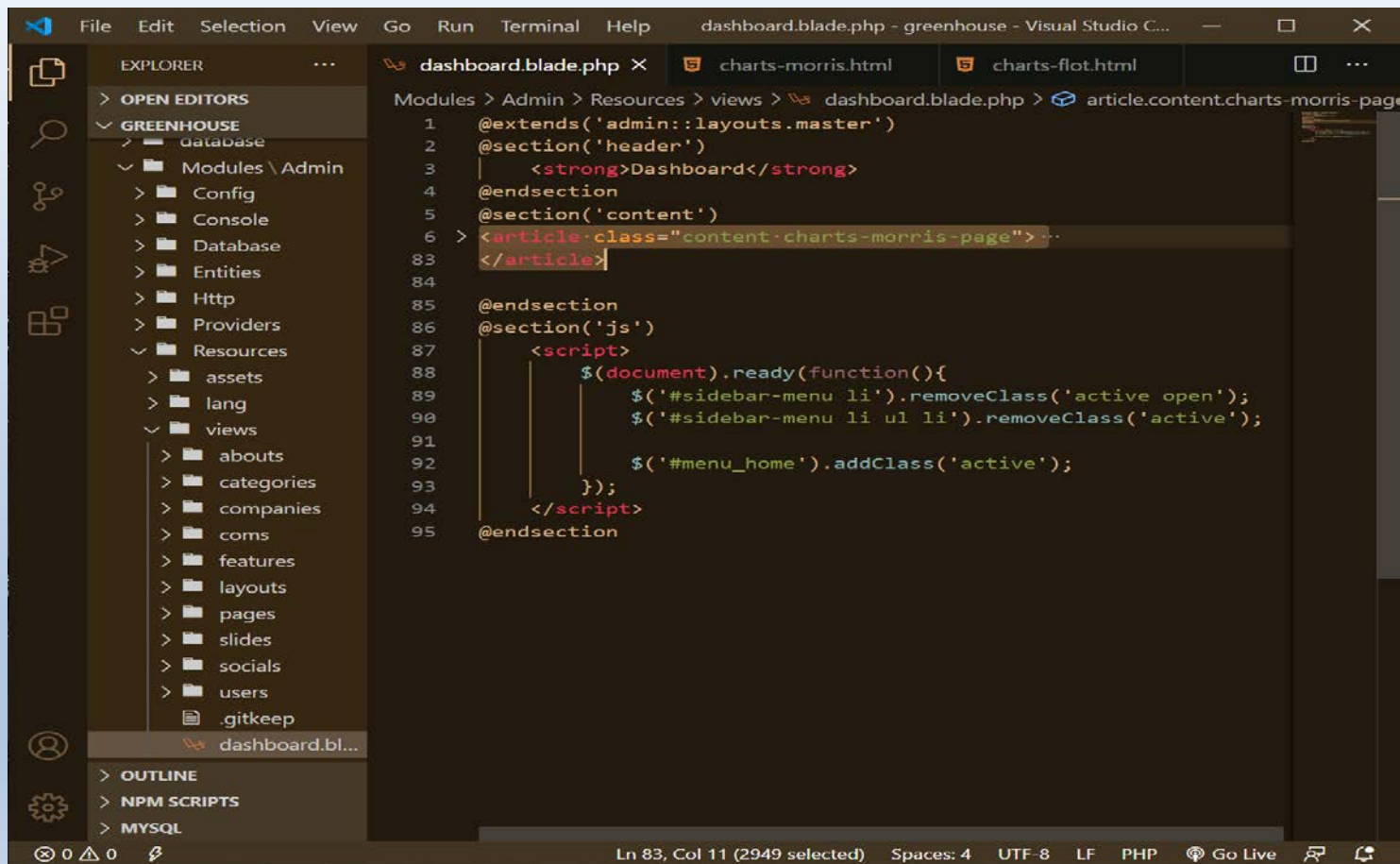
❖ Using Dashboard sample templates



Open charts-morris.html on VS code, copy code of charts morris and past on dashboard.blade.php



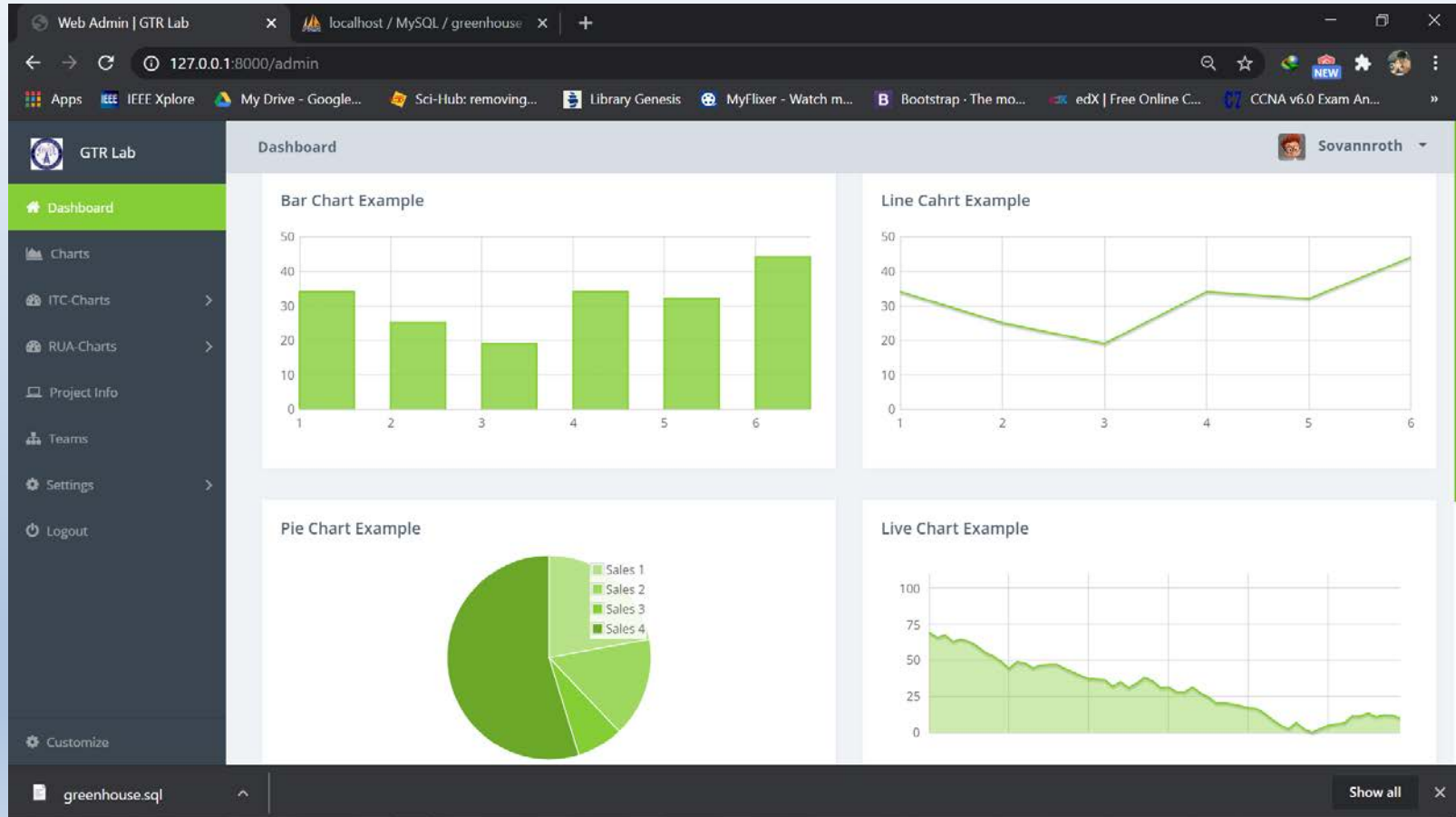
❖ Creating Dashboard with sample template



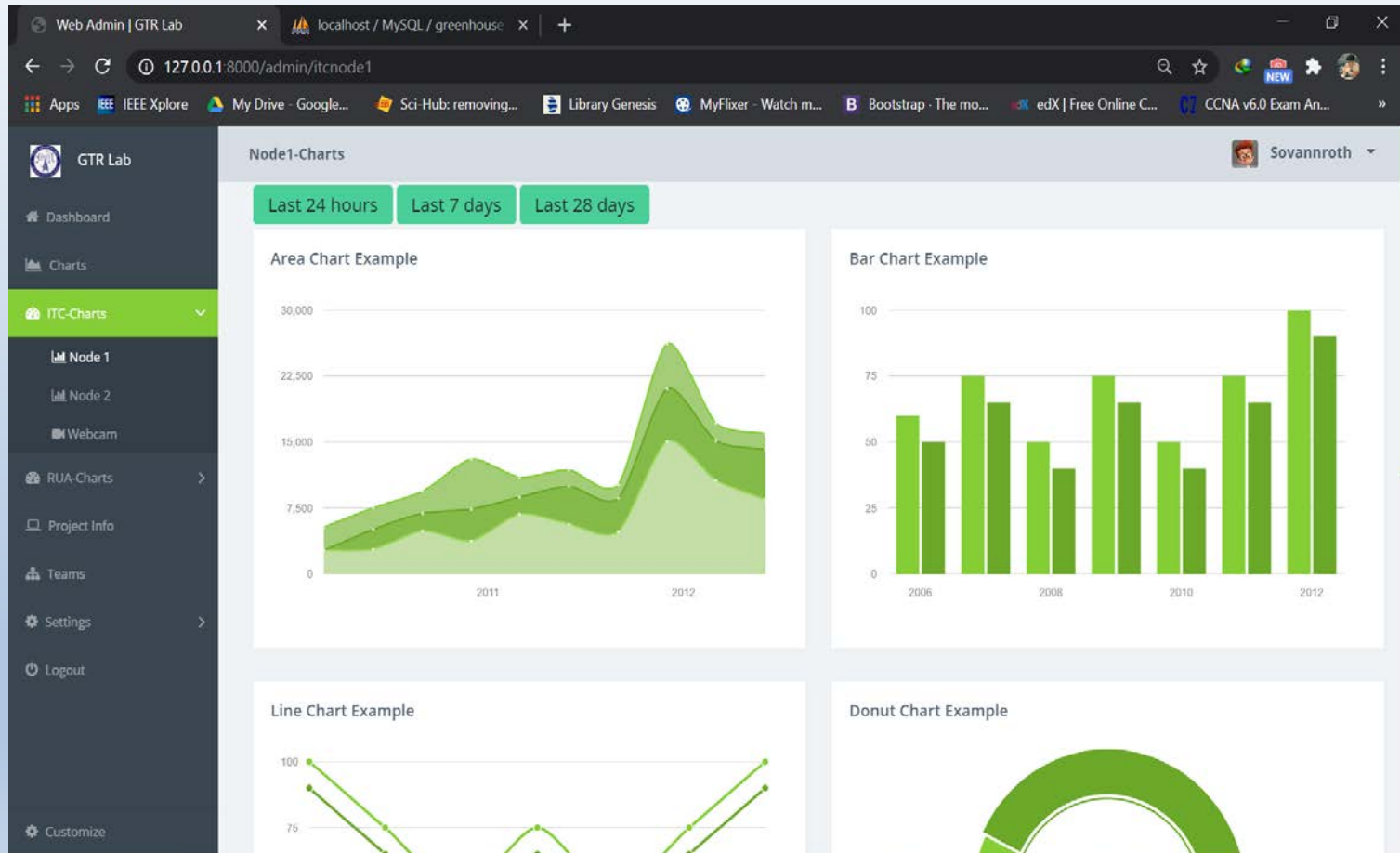
The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left displays the project structure for 'GREENHOUSE', with the 'views' directory under 'Resources' selected. The main editor area shows the 'dashboard.blade.php' file, which is part of the 'article.content.charts-morris-page' view. The code is a Blade template that extends the 'admin::layouts.master' layout. It defines a header section with a 'Dashboard' title and a content section. The content section is wrapped in an 'article' tag with the class 'content.charts-morris-page'. A JavaScript section is also defined, which uses jQuery to remove the 'active open' class from the sidebar menu and add the 'active' class to the 'menu_home' item.

```
1 @extends('admin::layouts.master')
2 @section('header')
3     <strong>Dashboard</strong>
4 @endsection
5 @section('content')
6     <article class="content.charts-morris-page"> ...
83 </article>
84
85 @endsection
86 @section('js')
87     <script>
88         $(document).ready(function(){
89             $('#sidebar-menu li').removeClass('active open');
90             $('#sidebar-menu li ul li').removeClass('active');
91             $('#menu_home').addClass('active');
92         });
93     </script>
94 @endsection
```

❖ Dashboard show on backend



❖ View on backend project



❖ View on backend project

Web Admin | GTR Lab localhost / MySQL / greenhouse +

127.0.0.1:8000/admin/project

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GTR Lab

- Dashboard
- Charts
- ITC-Charts >
- RUA-Charts >
- Project Info**
- Teams
- Settings >
- Logout


Customize

Project Info Sovannroth

[Edit](#)

Title : Smart Irrigation (IoT and AI)

Address : Institute of Technology of Cambodia



Description

Tamen quem nulla quae legam multos aute sint culpa legam noster magna veniam enim veniam illum dolore legam minim quorum culpa amet magna export quem marada parida nodela caramase seza.

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❖ View on backend project

Web Admin | GTR Lab localhost / MySQL / greenhouse +

127.0.0.1:8000/admin/team
















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GTR Lab

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- Customize

Teams Sovannroth

Create

#	Name	Position	Photo	Description	Facebook	Actions
1	Hel Chanthan	Teacher		Advisor	Chanthan Hel	 
2	Vannak Sovannroth	Student		Frontend, Backend, and Mobile App	Sovannroth Vannak	 
3	Nhim Chann Rengsey	Student		PH sensor, PCB, and Hardware	Nhim Chann Rengsey	 
4	Proeung Bunrong	Student		Thingspeak fetch data from Green House	Bunrong Proeung	 
5	Chek Nita	Student		Learning Machine Learning and AI	Nita Chek	 

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❖ View on backend project

Web Admin | GTR Lab

localhost / MySQL / greenhouse

127.0.0.1:8000/admin/company

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GTR Lab

Dashboard

Charts

ITC-Charts >

RUA-Charts >

Project Info

Teams

Settings


Laboratory

Users

Logout

Customize

Laboratory Info

Sovannroth

Edit

Name

: LBE Laboratory

Phone

: 0123456789

Email


: info@itc.com

Address

: Institute of Technology of Cambodia

Description

Tamen quem nulla quae legam multos aute sint culpa legam noster magna veniam enim veniam illum dolore legam minim quorum culpa amet magna export quem marada parida nodela caramase seza.



created by Sovannroth

❖ View on backend project

Web Admin | GTR Lab x localhost / MySQL / greenhouse x +

127.0.0.1:8000/admin/user





































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GTR Lab

- Dashboard
- Charts
- ITC-Charts >
- RUA-Charts >
- Project Info
- Teams
- Settings** v
- Laboratory
- Users**
- Logout
- Customize

Users Sovannroth

Create

#	Photo	Name	Email	Actions
1		Admin	admin@gmail.com	 
2		GTR	gtr@gmail.com	 
3		LBE	lbe@gmail.com	 
4		Sovannroth	sovannroth@gmail.com	 
5		Nita	nita@gmail.com	 
6		ITC	itc@gmail.com	 
7		Rengsey	rengsey@gmail.com	 
8		Rotanak	rotanak@gmail.com	 
9		Bonrong	bonrong@gmail.com	 
10		Mary	mary@gmail.com	 
11		Chettra	chettra@gmail.com	 
12		Chivan	chivan@gmail.com	 

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❖ Coding for backend and database

<https://github.com/Chanthan89/Smart-Irrigation/tree/master/Weekly%20Presentation/Sept-2020/VANNAK%20Sovannroth/Code%20on%20backend%20and%20database>

**Thank
You!**