

MyApp Template



Accelerate Development

Web Application Template combining PHP, Bootstrap, Jquery, PHP Grid, Query Builder, Chart 4 PHP, Stimulsoft Report, API Server (JWT and Sanctum) and Flutter for mobile app development tool

A p s c o o

J a k a r t a , I n d o n e s i a

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MyApp Template

1. Introduction

About MyApp

MyApp is web and mobile application template that combine the following technologies: PHP (Laravel and Codeigniter), Bootstrap, Jquery, PHP Grid, Query Builder, Chart 4 PHP, Stimulsoft Report, API Server with Sanctum and Flutter for mobile development tool. It is designed to simplify application development for your business processes.

MyApp provides common features needed for (web) developer as started package to boost and accelerate implementation. It already has authentication and authorization, crud (create read update delete), master detail, query builder, report, chart and api server.

MyApp template is built on 2 reputable PHP Frameworks :

- Codeigniter 3.1.10 with PHP version 7.3.33 and Mysql (10.4.22-MariaD) as DBMS
- Laravel 9.40.1 with PHP version 8.1.10 and Mysql (10.4.25-MariaDB) as DBMS.



2. Features

a. Web Application

1) Authentication and Authorization

Authentication and authorization features are already available for both CI and Laravel. User will be authenticated with password and token (for API), then User will have roles based on its level.

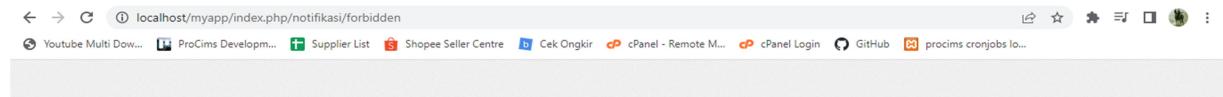
On Codeigniter, developer use the following lines:

```
$this->auth->restrict();
$this->auth->is_valid_token();
$this->auth->check_allowed_level('menu_id', 'function_name');
```

On Laravel :

```
Route::get('/appuser', [AdmController::class, 'appuser'])->
    middleware('is_admin');
OR
Route::get('/appuser', [AdmController::class, 'appuser'])->
    middleware('auth');
```

On database, there are two tables related to authentication and authorization : users and roles/users_level.



2) Dynamic Navigation

Developer can make application menu / navigation dynamically. Navigation is defined on table menu which contains configuration for navigation structure , allowed users, url etc.

Admin > Menu Management						
	Keyword	Type	Name	Parent	Url	Level Allowed
<input type="checkbox"/>	Search...	Search...	Search...	-	Search...	-
<input type="checkbox"/>	Dashboard	summary	Dashboard	1 (Dashboard)	index.php/dashboard/index	Administrator, Admin_md, User
<input type="checkbox"/>	Admin User Management	table	User Management	2 (Admin)	index.php/adm/user_management	Administrator
<input type="checkbox"/>	Admin Menu Management	table	Menu Management	2 (Admin)	index.php/adm/menu_management	Administrator
<input type="checkbox"/>	Admin Level Management	table	Level Management	2 (Admin)	index.php/adm/level_management	Administrator
<input type="checkbox"/>	User Table Privilage	table	User Table Privilage	2 (Admin)	index.php/adm/user_table_privilege	Administrator, Admin_md
<input type="checkbox"/>	Master Area	table	Area	3 (Master)	index.php/master/area	Administrator, Admin_md
<input type="checkbox"/>	Master Discipline	table	Discipline	3 (Master)	index.php/master/discipline	Administrator, Admin_md
<input type="checkbox"/>	Master Phase	table	Phase	3 (Master)	index.php/master/phase	Administrator, Admin_md
<input type="checkbox"/>	Master Customers	table	Customers	3 (Master)	index.php/master/customers	Administrator, Admin_md
<input type="checkbox"/>	Master Products	table	Products	3 (Master)	index.php/master/products	Administrator, Admin_md, User
<input type="checkbox"/>	Master Categories	table	Categories	3 (Master)	index.php/master/categories	Administrator, User

3) Dynamic Layout/Skin

There are 6 layouts option available on MyApp Template. Developer need to specify class on body tag for both Codeigniter and Laravel.

```
<body class="layout_skin"> //layout_skin : smart-style-0 - smart-style-5
```

4) Create Read Update Delete (CRUD)

MyApp template using phpgrid library to manage table/data. It already integrated user authorization with the grid access. Admin or developer just need to add privilege to certain level in order to define access for table/data. PHP Code required if a new table need to be added to the navigation/menu.

The screenshot shows a grid-based administrative interface titled "Admin > User Table Privilege". The grid has columns for "Menu", "Level", and "Privilege". Each row represents a menu item with its ID, name, level, and the permissions it has been granted. The "Privilege" column lists actions like Create, Read, Update, Delete, Bulk Update, and Export. A search bar at the top right allows filtering by column values.

	Menu	Level	Privilege
<input type="checkbox"/>	-	-	-
<input type="checkbox"/>	8 (User Management)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update
<input type="checkbox"/>	9 (Menu Management)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update
<input type="checkbox"/>	11 (User Table Privilage)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update
<input type="checkbox"/>	12 (Area)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update
<input type="checkbox"/>	13 (Discipline)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update
<input type="checkbox"/>	10 (Level Management)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update
<input type="checkbox"/>	14 (Phase)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update
<input type="checkbox"/>	15 (Customers)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update, Export
<input type="checkbox"/>	16 (Products)	1 (Administrator)	Create, Read, Update, Delete, Bulk Update, Export
<input type="checkbox"/>	16 (Products)	3 (User)	Read, Update, Export

5) Master Detail

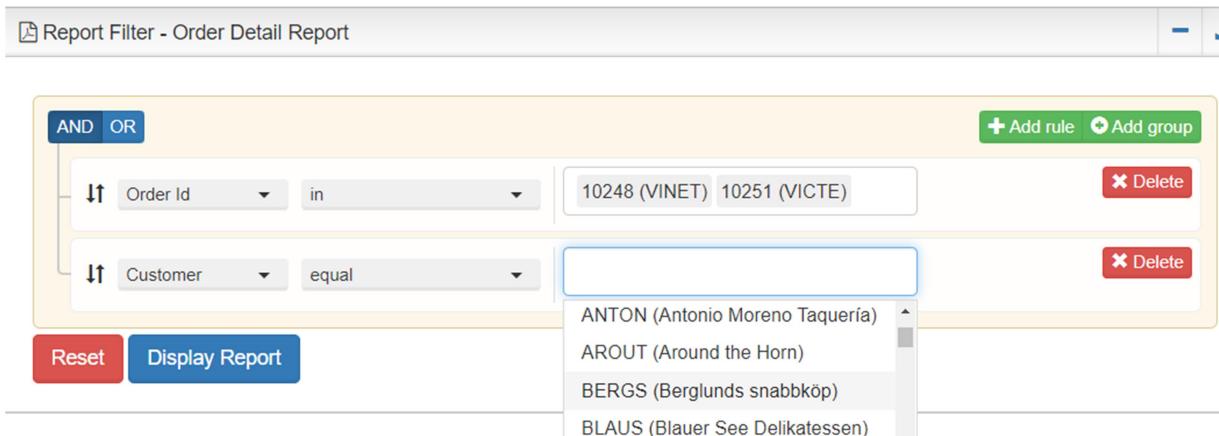
MyApp provided a master detail example for developer with form and several detail tables involve. Master detail feature is supported for licensed version of PHPGrid.

The screenshot displays a master-detail application interface. On the left, there is a modal window titled "Order" containing form fields for Customer (VINET), Handle By (5), Order Date (04-Jul-1996), Required Date (01-Aug-1996), Shipped Date (16-Jul-1996), Shipper (2), and Status (CREATED). Below the form are two buttons: "Save" and "Print Order". To the right of the modal is a grid titled "List of Order" showing a list of 10 orders. The columns in the grid are Customer, Handle by, Date, and Status. The first row is highlighted in yellow. The "Customer" column lists various company names, and the "Handle by" column lists names like Buchanan, Suyama, Peacock, and Leverling. The "Date" column shows dates from 04-Jul-1996 to 16-Jul-1996, and the "Status" column shows all entries as "created".

Customer	Handle by	Date	Status
Vins et alcools Chevalier	Buchanan	04-Jul-1996	created
Toms Spezialitäten	Suyama	05-Jul-1996	created
Hanari Carnes	Peacock	08-Jul-1996	created
Vitualles en stock	Leverling	08-Jul-1996	created
Suprêmes délices	Peacock	09-Jul-1996	created
Hanari Carnes	Leverling	10-Jul-1996	created
Chop-suey Chinese	Buchanan	11-Jul-1996	created
Richter Supermarkt	Dodsworth	12-Jul-1996	created
Wellington Importadora	Leverling	15-Jul-1996	created
HILARION-Abastos	Peacock	16-Jul-1996	created

6) Report and Query Builder

MyApp provides query builder for dynamic reports. It build sql query to be passed to the report.



The screenshot shows a query builder interface titled "Report Filter - Order Detail Report". The interface is divided into two main sections: "AND" and "OR".
The "AND" section contains one rule: "Order Id" is in the values "10248 (VINET)" and "10251 (VICTE)".
The "OR" section contains one rule: "Customer" is equal to a list of customers: ANTON (Antonio Moreno Taquería), AROUT (Around the Horn), BERGS (Berglunds snabbköp), and BLAUS (Blauer See Delikatessen).
At the bottom left are "Reset" and "Display Report" buttons. At the top right are "+ Add rule" and "Add group" buttons, along with "Delete" buttons for each rule.

Developer can choose Report tools library based on necessity. He can use Stimulsoft Report if lot of reports need to be created. This library is premium version, need to buy license for legal usage. Developer has experience in crystal report will have advantage when using stimulsoft report due to its similar usage.

Other option is to use dompdf library. It's also available on MyApp for development when only small amount of report is needed.

7) Dashboard and Chart



Developer can choose to use several charts available on MyApp Template. Two usage examples are available on MyApp, PHPChart (licensed) and ChartJs.

8) API (Jason Web Token -JWT or Sanctum)

Codeigniter using JWT token for Web and API (Application Programming Interface).

```
$data = array('id'=>$user['id'], 'username'=>$user['username']);  
$this->authorization_token->generateToken($data);
```

```
$this->authorization_token->validateTokenWeb($token); //for Web  
$this->authorization_token->validateToken($headers['Authorization']); //for API
```

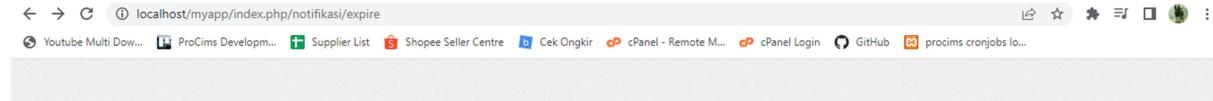
Laravel use Library Sanctum for this purpose.

Route :

```
Route::apiResource('/tasks', TasksController::class)->middleware('auth:sanctum');
```

Usage :

```
$user->createToken('API Token')->plainTextToken;
```



9) API Access using Postman

A Controller (Apitoken) is available in MyApp to test token generation and verification.

On Postman, fill the body of api endpoint as follow :

The screenshot shows a POST request to `http://localhost/myapp/index.php/apitoken/tokenGen`. The 'Body' tab is selected, showing three form-data fields: `user_id` (value: 198), `fullname` (value: Azka Salman), and `email` (value: azka198@gmail.com). The response status is 200 OK with a JSON payload:

```
1 "status": true,
2 "message": "success",
3 "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.
eyJ1c2VyX2lkIjoiMTk4IiwiZnVsbG5hbWUiOiJBemthIFNhbgIhbIisImVtYWhlsIjoiYXpxYTE50EBnbWFpbC5jb20iLCJBUElfVE1NRSI6M
TY3NDY5Mzk4Mn0.YSmdSsrDNUwbqKS3iNgUS0lawhg-bmd3Rv-A33s4tuU"
```

When verifying user, fill the header with these informations :

The screenshot shows a POST request to `http://localhost/myapp/index.php/apitoken/verify`. The 'Headers' tab is selected, showing three headers: `Accept` (value: application/json), `Content-Type` (value: application/json), and `Authorization` (value: eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoiMTk4IiwiZnVsbG5hbWUiOiJBemthIFNhbgIhbIisImVtYWhlsIjoiYXpxYTE50EBnbWFpbC5jb20iLCJBUElfVE1NRSI6M
TY3NDY5Mzk4Mn0.YSmdSsrDNUwbqKS3iNgUS0lawhg-bmd3Rv-A33s4tuU). The response status is 200 OK with a JSON payload:

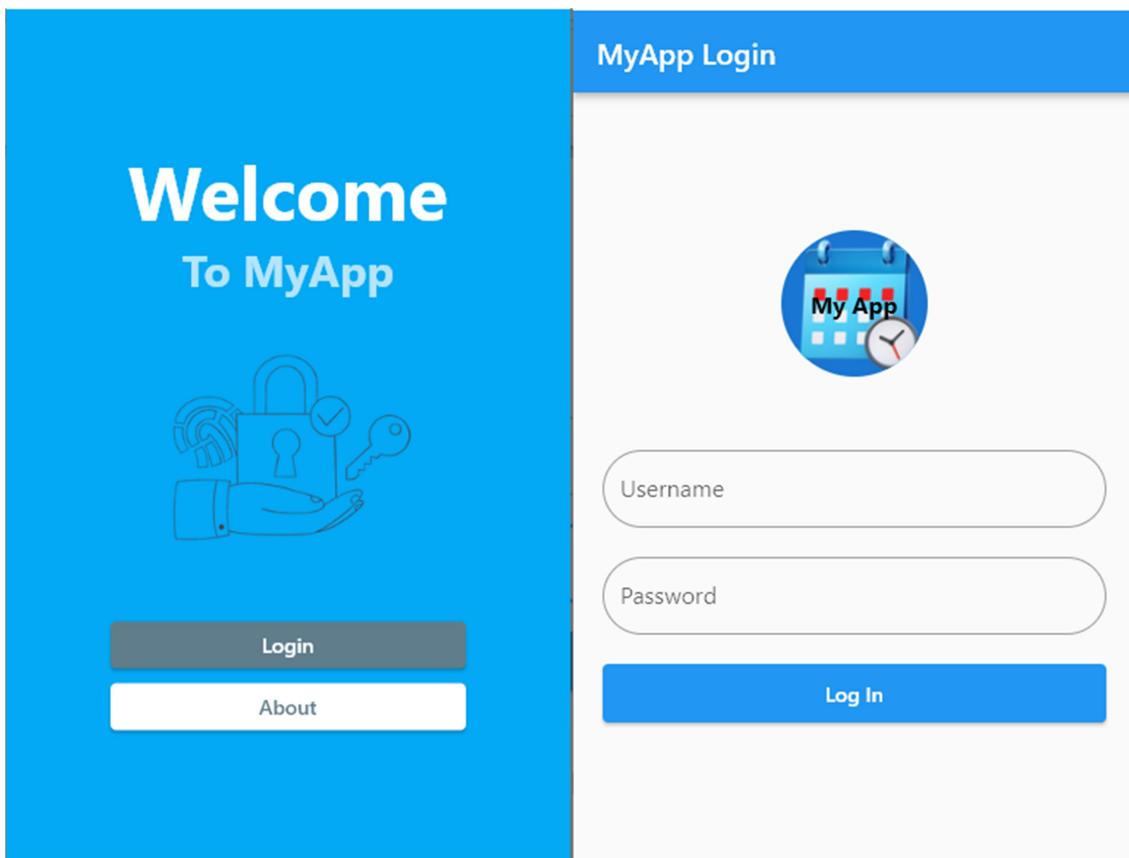
```
1 "status": true,
2 "data": {
3     "user_id": "198",
4     "fullname": "Azka Salman",
5     "email": "azka198@gmail.com",
6     "API_TIME": 1674693982
7 }
```

Authorization is filled with token value getting from login. List of API url is available on appendix.

b. Mobile Application

MyApp has two mobile application templates build with Flutter. These mobile app templates are used for accessing API service on MyApp and simple CMS (News Management).

1) MyApp Mobile Template



Login Page

The image shows the Category screen of a mobile application named "MyApp". The left side displays a list of seven categories, each with a blue circular index number, a name, a description, and edit/delete icons. The categories are:

- 1 Beverages: Soft drinks, coffees, teas, beers, and ales
- 2 Condiments: Sweet and savory sauces, relishes, spreads, and seasonings
- 3 Confections: Desserts, candies, and sweet breads
- 4 Dairy products: Cheeses
- 5 Grains/Cereals: Breads, crackers, pasta, and cereal
- 6 Meat/Poultry: Prepared meats
- 7 Produce: Dried fruit and bean curd

A large blue circular button with a white plus sign is located at the bottom right of the category list. Below the list is a navigation bar with icons for Home, Category, Product, Customer, Supplier, and Order.

The right side of the screen is a modal titled "Add Category" with a back arrow. It contains fields for "Category Name" and "Description", and a "Save" button.

Category Screen

Left Screenshot (Search term:)

Search: Search

	Chai Original	Category : Beverages	Supplier : New Orleans Cajun Delights	Price : 18.00	...
	Max Juice	Category : Beverages	Supplier : Exotic Liquids	Price : 19.00	...
	Aniseed Syrup	Category : Condiments	Supplier : Exotic Liquids	Price : 10.00	...
	Chef Anton's Cajun Seasoning	Category : Condiments	Supplier : New Orleans Cajun Delights	Price : 22.00	...
	Chef Anton's Gumbo Mix	Category : Condiments			+

Bottom Navigation Bar:

- Home
- Category
- Product**
- Customer
- Supplier
- Order

Right Screenshot (Search term: max)

Search: Search

	Max Juice	Category : Beverages	Supplier : Exotic Liquids	Price : 19.00	...
	Maxilaku	Category : Confections	Supplier : Karkki Oy	Price : 20.00	...

Bottom Navigation Bar:

- Home
- Category
- Product**
- Customer
- Supplier
- Order

Product Screen

← Chai Original



Chai Original
New Orleans Cajun Delights
Beverages
18.00

← Edit Product

Product Name
Chai Original

New Orleans Cajun Delights ▾

Beverages ▾

Unit Price
18.00

Image 2 ▾

Save

Product Detail

MyApp

Search
be| 🔍

BERGS

Company : Berglunds snabbköp
 Contact : Christina Berglund
 Address : Berguvsvägen 8
 Country : Sweden

BSBEV

Company : B's Beverages
 Contact : Victoria Ashworth
 Address : Fauntleroy Circus
 Country : UK

Home
Category
Product
Customer
Supplier
Order

MyApp

- 1 Exotic Liquids** ▼
- 2 New Orleans Cajun Delights** ▼
- 3 Grandma Kelly's Homestead** ▲

Contact : Regina Murphy
 Title : Sales Representative
 Address : 707 Oxford Rd.
 City : Ann Arbor
 Country : USA
- 4 Tokyo Traders** ▼
- 5 Cooperativa de Quesos 'Las Cabras'** ▼
- 6 Mayumi's** ▼
- 7 Pavlova, Ltd.** ▼
- 8 Specialty Biscuits, Ltd.** ▼

Home
Category
Product
Customer
Supplier
Order

Customer and Supplier

☰
MyApp

Search Order by Customer

Order	Customer	Date	Handle
10269	White Clover Markets	1996-07-31	B
10358	La maison d'Asie	1996-11-20	B
10397	Princesa Isabel Vinhos	1996-12-27	B
10549	QUICK-Stop	1997-05-27	B
10569	Rattlesnake Canyon Grocery	1997-06-16	B
10575	Morgenstern Gesundkost	1997-06-20	B
10607	Save-a-lot Markets	1997-07-22	B
10654	Berglunds snabbköp	1997-09-02	B
10730	Bon app'	1997-11-05	B
10812	Reggiani Caseifici	1998-01-02	B

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<
>

Home
 Category
 Product
 Customer
 Supplier
 Order

☰
MyApp

Search Order by Customer

Order	Customer	Date	Handle
10269	White Clover Markets	1996-07-31	Buchanani
10596	White Clover Markets	1997-07-11	Callahan
10469	White Clover Markets	1997-03-10	Davolio
10723	White Clover Markets	1997-10-30	Leverling
10483	White Clover Markets	1997-03-24	King
11066	White Clover Markets	1998-05-01	King
10344	White Clover Markets	1996-11-01	Peacock
10740	White Clover Markets	1997-11-13	Peacock
10861	White Clover Markets	1998-01-30	Peacock
10696	White Clover Markets	1997-10-08	Callahan

1–10 of 14

<
>

Home
 Category
 Product
 Customer
 Supplier
 Order

Order Screen

2) MyApp Template for CMS (News)

MyAppNews

Breaking News

Gorilla Glass Victus 2 dipastikan hadir perdana di Galaxy S23 series - ANTARA
Livia Kristianti

Recent News - International

Billy Packer, 82, longtime Final Four basketball analyst, dies - ESPN
Longtime college basketball ...

La Nyalla Siap Kerja dengan Siapa Saja, Cuma Ogah Exco PSSI Lama - detikSport
Jakarta - La Nyalla Mahmud ...

Jawaban Mikel Arteta soal Martin Odegaard Bocorkan Cara Hentikan Erling Haaland - Bolasport

MyAppNews

Sport News

Asnawi Mangkualam Resmi Gabung Jeonnam Dragons - detikSport
Jakarta - Asnawi Mangkualam sud...

La Nyalla Siap Kerja dengan Siapa Saja, Cuma Ogah Exco PSSI Lama - detikSport
Jakarta - La Nyalla Mahmud ...

Jawaban Mikel Arteta soal Martin Odegaard Bocorkan Cara Hentikan Erling Haaland - Bolasport



Gorilla Glass Victus 2 dipastikan hadir perdana di Galaxy S23 series - ANTARA

Livia Kristanti



Jakarta (ANTARA) - Samsung memang sering kali menggunakan produk dari Corning yakni Gorilla Glass Victus untuk melindungi layar perangkat pintarnya seperti pada ponsel pintar Galaxy S22 series mereka... [+1710 chars]

Source: <https://www.antaranews.com/berita/3367641/gorilla-glass-victus-2-dipastikan-hadir-perdana-di-galaxy-s23-series>

MyAppNews



Business News

IUN 2022 Makin Murah Nih! Subsidi Rp 7 Juta Motor Listrik Rilis Minggu Depan - detikOto

Jakarta - Menteri Koordinator ...

Harga Saham Emiten 'Kawalan' AA Gym Anjlok - CNN Indonesia

Jakarta, CNN Indonesia -- ...

Pernah Pakai Teknologi Populer Ini Artinya Kamu Sudah Tua - detikNet



3. Code Structure

a. PHPGrid

1) Introduction

PHPGrid is PHP Library focusing on database management. It has complete features on how web application deal with table management. Main features available in this library : CRUD (Create Read Update Delete), foreign key management, master detail, roles, export import etc.

PHPGrid is licensed library. Developer can choose to use free version for basic table management or premium version for advance usage.

2) Adding Code

Codeigniter

```
require_once("inc/config.php");
include("inc/jqgrid_dist.php");
$g = new jqgrid();

$g->table = "mst_products";
$out = $g->render("list1");

$data['out'] = $out;
```

Laravel

```
include_once("phpgrid\config.php");
include('phpgrid\jqgrid_dist.php');

$g = new \jqgrid();
$g->table = "users";

$out = $g->render("list1");
```

3) Grid Configuration

You can setup grid configuration dynamically based on your business process. Example PHPGrid Configuration :

```
$option["multiselect"] = true;
$option["autowidth"] = true;
$option["autoresize"] = true;
$option["toolbar"] = "bottom";
$option["altRows"] = true;
$option["altclass"] = "myAltRowClass";
$option["rowNum"] = 20;

$option["add_options"] = array('width'=>'500');
$option["edit_options"] = array('width'=>'500');
$option["view_options"] = array('width'=>'500');
$option["export"]["sheetname"] = "My Data";
$option["shrinkToFit"] = false;

$action["add"] = FALSE;
$action["edit"] = TRUE;
$action["delete"] = TRUE;
$action["view"] = TRUE;
$action["search"] = TRUE;
$action["clone"] = TRUE;
$action["showhidecolumns"] = TRUE;
$action["bulkedit"] = FALSE;
$action["export_excel"] = TRUE;
$action['rowactions'] = TRUE;
```

b. CodeIgniter

Detailed documentation can be found on <https://codeigniter.com/userguide3/general/welcome.html>

In MyApp template, there are several additional segment (package, libraries, helper, vendor etc) to help developer accelerates development process, including

- Smartadmin package for user interface (Bootstrap, css, chart etc)
`base_url() \ assets\smartadmin`
- PHPGrid for database management (licensed www.phpgrid.org)
`base_url() \ media\js`
`base_url() \ application\controllers\inc`
- Rest Server
`base_url() \ vendor\chriskacerguis\codeigniter-restserver\src`
- QueryBuilder
`base_url() \ media\querybuilder`
- Stimulsoft for reporting tool (licensed www.stimulsoft.com/en)
`base_url() \ report`
- Dompdf for reporting
`base_url() \ vendor\dompdf`
- Jason Web Token (JWT)
`base_url() \ application\third_party\php-jwt`

Some important configurations on MyApp template in Codeigniter :

- Helper
`base_url() \ application\helpers\my_helper.php`
- Rest Server
`base_url() \ vendor\chriskacerguis\codeigniter-restserver\src\ rest.php`
- Jason Web Token
`base_url() \ application\config\ jwt.php`

c. Laravel

Detailed information can be found on <https://laravel.com/docs/9.x>

Additional segment (package, libraries, helper, vendor etc) to help developer accelerates development process, including :

- Smartadmin package for user interface (Bootstrap, css, chart etc)
`base_url() \ public\smartadmin`
- PHPGrid for database management (licensed www.phpgrid.org)
`base_url() \ public\phpgrid`
`base_url() \ app\Http\Controllers\phpgrid`
- Rest Server with sanctum
- QueryBuilder
`base_url() \ public\querybuilder`

Some important configurations on MyApp Template in laravel :

- Middleware IsAdmin.php
`base_url() \ app\Http\Middleware`
- Gate AppServiceProvider.php
`base_url() \ app\Providers`
- Helper for generating dynamic navigation
`base_url() \ app\Http\Controllers\myLib`

4. Appendix

a. Database Structure (Codeigniter)

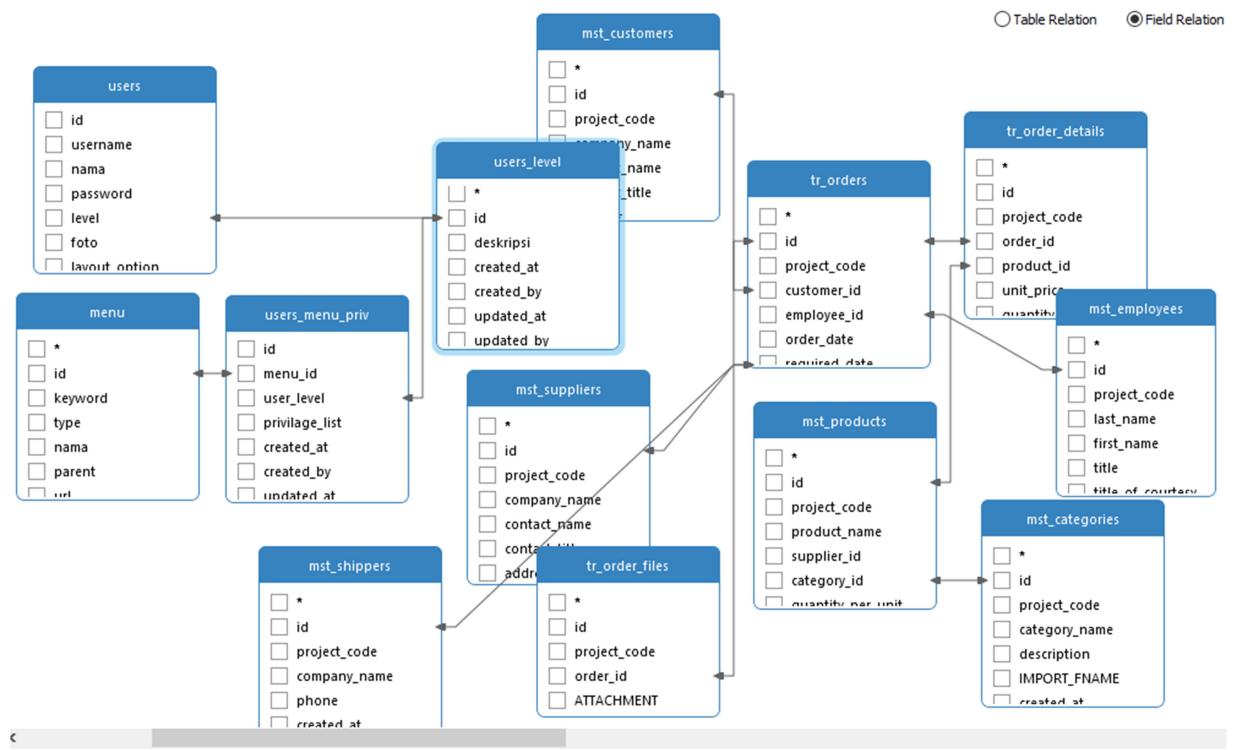
Tables

Name	Auto Increment Value	Modified Date	Data Length	Engine	Rows	Comment
apikeys	2		16 KB	InnoDB	0	
apikeys_limits	3		16 KB	InnoDB	2	
import_history	4		16 KB	InnoDB	2	
menu	25	2023-01-16 13:21:04	4 KB	MyISAM	24	
mst_area	14		16 KB	InnoDB	4	
mst_categories	9		16 KB	InnoDB	9	
mst_customers	0		48 KB	InnoDB	92	
mst_discipline	13		16 KB	InnoDB	12	
mst_employees	10		16 KB	InnoDB	9	
mst_module	4		16 KB	InnoDB	3	
mst_phase	4		16 KB	InnoDB	3	
mst_products	78		16 KB	InnoDB	77	
mst_shippers	4		16 KB	InnoDB	3	
mst_suppliers	30		16 KB	InnoDB	29	
tr_order_details	2159		160 KB	InnoDB	2157	
tr_order_files	6		16 KB	InnoDB	3	
tr_orders	11078		144 KB	InnoDB	830	
users	9	2023-01-13 06:53:14	2 KB	MyISAM	4	
users_level	6	2022-11-07 19:56:24	1 KB	MyISAM	3	
users_menu_priv	15	2022-11-09 10:16:42	1 KB	MyISAM	12	
users_privilege	10		16 KB	InnoDB	9	

Views

Name	Is Updatable
v_main_order_details	Yes
v_main_orders	Yes
v_order_summary_by_country	No
v_order_summary_by_employee	No
v_order_summary_by_shipper	No
v_products	Yes

ER Diagram



b. API Url List (Codeigniter)

For testing and simplicity, JWT token is not activate for these API endpoints. Only two controllers using JWT Token : ApiToken and Authentication. In Order to activate the token, adding these steps :

1. Login to MyApp using this url : <http://localhost/myapp/index.php/authentication/login>

The screenshot shows a Postman request configuration for a POST method to the URL `http://localhost/myapp/index.php/authentication/login`. The **Body** tab is active, showing form-data fields: `username` with value `administrator` and `password` with value `****`. The response status is `200 OK` with a JSON payload:

```
1 "status": true,
2 "message": "success",
3 "data": {
4     "id": "1",
5     "username": "administrator",
6     "nama": "Administrator",
7     "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjEiLCJ1c2VybmFtZSI6ImFkbWluaXN0cmF0b3IiLCJuYW1hIjoiQWRtaW5pc3RyYXRvciiSIkFQSV9USU1FIjoxNjc0NzAxMDExfQ.-j1eqEGMl1iDuC32FilAP_MqEykfL5hAT8L0jCK7p08"
9   }
10 }
```

2. Add Authorization on Header and assign its value with the token generated when login

The screenshot shows a Postman request configuration with the **Headers** tab active. It contains three entries:

KEY	VALUE
Accept	application/json
Content-Type	application/json
Authorization	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjEiLCJ1c2VybmFtZSI6ImFkbWluaXN0cmF0b3IiLCJuYW1hIjoiQWRtaW5pc3RyYXRvciiSIkFQSV9USU1FIjoxNjc0NzAxMDExfQ.-j1eqEGMl1iDuC32FilAP_MqEykfL5hAT8L0jCK7p08

3. Add this code on API function to verify user

```
$this->authorization_token>validateToken($headers['Authorization']);
```

MyApp API end point list :

(Developer should replace this <http://localhost/myapp/index.php> with your base url)

- Login (POST) :
input : body (username, password)
<http://localhost/myapp/index.php/authentication/login>
- Order list (GET) :
<http://localhost/myapp/index.php/api/orders>
- Order with pages (GET)
Input : body (limit : number of data/page, offset : starting point)
<http://localhost/myapp/index.php/api/orders?limit=10&offset=30>
- An Order (GET)
<http://localhost/myapp/index.php/api/orders/id/10269>
- Category list (GET)
<http://localhost/myapp/index.php/api/categories>

A Category (GET)
• <http://localhost/myapp/index.php/api/categories/id/1>
- Create Category (POST)
Input : body (category_name, description)
<http://localhost/myapp/index.php/api/categories>
- Update Category (PUT)
Input : body (category_name, description)
<http://localhost/myapp/index.php/api/categories/id/10>
- Delete Category (DELETE)
<http://localhost/myapp/index.php/api/categories/id/12>
- Product list (GET)
<http://localhost/myapp/index.php/api/products>
- Product with pages (GET)
<http://localhost/myapp/index.php/api/products?limit=10&offset=20>

- A Product (GET)
<http://localhost/myapp/index.php/api/products/id/1>
- Create Product (POST)
Input : body (product_name, supplier_id, category_id, unit_price, img_path)
<http://localhost/myapp/index.php/api/products>
- Update Product (PUT)
Input : body (product_name, supplier_id, category_id, unit_price, img_path)
<http://localhost/myapp/index.php/api/products/id/79>
- Delete Product (DELETE)
<http://localhost/myapp/index.php/api/products/id/1>
- Customer
<http://localhost/myapp/index.php/api/customers>
<http://localhost/myapp/index.php/api/customers?limit=10&offset=5>
<http://localhost/myapp/index.php/api/customers/id/ANTON>
- Supplier
<http://localhost/myapp/index.php/api/suppliers>
<http://localhost/myapp/index.php/api/suppliers?limit=10&offset=5>
<http://localhost/myapp/index.php/api/suppliers/id/1>

c. Database Structure (Laravel)

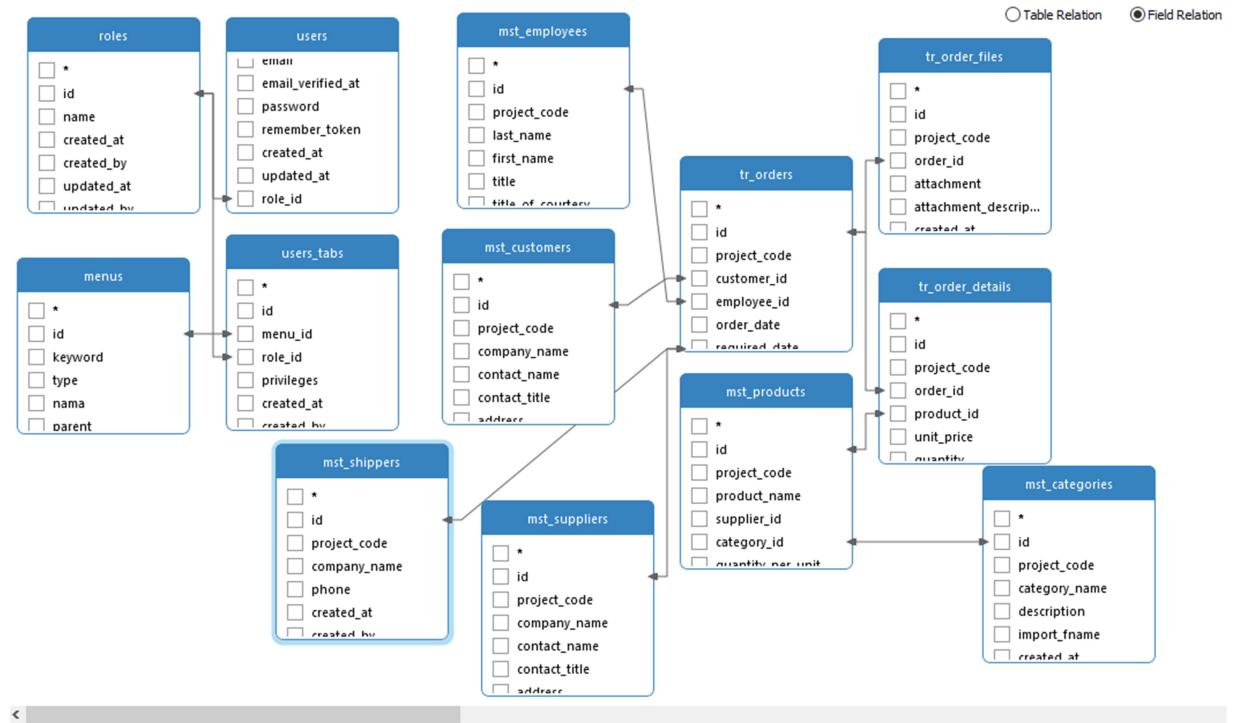
Tables

Name	Auto Increment Value	Modified Date	Data Length	Engine	Rows
failed_jobs	1		16 KB	InnoDB	0
imports_histories	3		32 KB	InnoDB	2
menus	18	2022-12-18 12:35:52	2 KB	MyISAM	17
migrations	8		16 KB	InnoDB	4
mst_categories	19		16 KB	InnoDB	8
mst_customers	0		48 KB	InnoDB	92
mst_employees	10		16 KB	InnoDB	9
mst_products	80		16 KB	InnoDB	77
mst_shippers	4		16 KB	InnoDB	3
mst_suppliers	30		16 KB	InnoDB	29
password_resets	0		16 KB	InnoDB	0
personal_access_tokens	5		16 KB	InnoDB	3
roles	4		16 KB	InnoDB	2
tasks	254		96 KB	InnoDB	250
tr_order_details	2159		160 KB	InnoDB	2157
tr_order_files	3		16 KB	InnoDB	2
tr_orders	11078		144 KB	InnoDB	830
users	5		32 KB	InnoDB	4
users_privileges	10		16 KB	InnoDB	9
users_tabs	11	2022-12-19 09:19:17	1 KB	MyISAM	10

Views

Name	Is Updatable
v_main_order_details	Yes
v_main_orders	Yes
v_order_summary_by_country	No
v_order_summary_by_employee	No
v_order_summary_by_shipper	No
v_products	Yes

ER Diagram



d. API Url List (Laravel)

In Laravel, MyApp provide two controllers (AuthController and TasksController) that implements token with sanctum.

In case you need to add token to your API, do these steps :

1. On Your API Route, add this line

```
Route::apiResource('/endPoint', AController::class)->middleware('auth:sanctum');
```

2. Login on Postman using login endpoint (<http://localhost/myapp/public/api/login>)

The screenshot shows a Postman request configuration for a POST method to the URL <http://localhost/myapp/public/api/login>. The 'Body' tab is selected, showing form-data parameters: 'email' with value 'azka198@gmail.com' and 'password' with value '****'. The response status is 200 OK, and the JSON response body is displayed in a pretty-printed format:

```
3   "message": null,
4   "data": [
5     "user": {
6       "id": 4,
7       "name": "Azka Salman",
8       "email": "azka198@gmail.com",
9       "email_verified_at": null,
10      "created_at": "2022-12-01T06:18:17.000000Z",
11      "updated_at": "2022-12-01T06:18:17.000000Z",
12      "role_id": 2
13    },
14    "token": "4|53gNZXtX3jvIhrsKFeg2o5FposPs5tGraEQhu7bk"
15  ]
16 }
```

3. Add Bearer Token on Authorization with the token from login

The screenshot shows the Postman interface with a GET request to <http://localhost/myapp/public/api/tasks>. The Authorization tab is active, set to Bearer Token, with a placeholder 'Token' containing a long string of characters. The response status is 200 OK, and the JSON body is displayed in a pretty-printed format:

```
1
2   "data": [
3     {
4       "id": "2",
5       "attributes": {
6         "name": "Omnis autem autem sit suscipit neque.",
7         "description": "Natus qui possimus error eius et. Cupiditate harum excepturi omnis. Tempore tenetur non dolore
Reprehenderit qui et omnis modi magnam.",
8         "priority": "high",
9         "created_at": "2022-12-01T07:21:36.00000Z",
10        "updated_at": "2022-12-01T07:21:36.00000Z"
11      },
12      "relationships": {
```

You should replace this part of api url <http://localhost/myapp/public> with your valid url.

- Category list (GET)
<http://localhost/myapp/public/api/categories>
- A Category (GET)
<http://localhost/myapp/public/api/categories/2>
- Create Category (POST)
Input : body (category_name, description)
<http://localhost/myapp/public/api/categories>
- Update Category (PUT)
Input : body (category_name, description)
<http://localhost/myapp/public/api/categories>
- Delete Category (DELETE)
<http://localhost/myapp/public/api/categories/18>
- Product list (GET)
<http://localhost/myapp/public/api/products>

- Product list with page (GET)
<http://localhost/myapp/public/api/products?page=2>
Note : to use paging in laravel API, add this code to controller

```
$products = Product::paginate(10);
```
- A Product (GET)
<http://localhost/myapp/public/api/products/2>
- Create Product (POST)
Input : body (product_name, supplier_id, category_id, unit_price, img_path)
<http://localhost/myapp/public/api/products>
- Update Product (PUT)
Input : body (product_name, supplier_id, category_id, unit_price, img_path)
<http://localhost/myapp/public/api/products>
- Delete Product (DELETE)
<http://localhost/myapp/public/api/products/18>
- Customer
 - <http://localhost/myapp/public/api/customers>
 - <http://localhost/myapp/public/api/customers/ALFKI>
- Supplier
 - <http://localhost/myapp/public/api/suppliers>
 - <http://localhost/myapp/public/api/suppliers/1>
- Order
 - <http://localhost/myapp/public/api/orders>
 - <http://localhost/myapp/public/api/orders/10248>

For live testing, use this url as base url <https://myapp.procims.com/index.php>
Currently, live testing on live server only for Codeigniter.