

PHP DEVELOPER TASK

Task: Develop a web application & API for library management with two users; Admin and User

- The Application is hosted under [this](#) domain.

Web Application

- The web application is done using Laravel framework with tailwindcss for styling, alpinejs for frontend javascript and Laravel Livewire for effective communication and data flow between frontend and backend.
- The default Laravel authentication is used to authenticate and maintain user sessions in web application.
- For authorization, laravel default auth was used together with a custom built middleware named admin (AdminMiddleware) which was responsible to ensure that it only allow access to its routes to user who were of role admin.
- MySQL was used for database.
- One users who is of role admin is seeded in to the database
 - Email: admin@ellipsis.co.tz
 - Password: password

Running the web Application Locally

- To run the web application locally, clone the project from [this](#) repository in to your machine.
- Before everything make sure that you have composer and node installed in your machine and since this is a laravel 9 project, make sure your php version is no less than 8.1.
- Then create a MySql database naming it anything you want.
- After that, run the command composer install in the terminal while you are at the root of the project directory.

- Once it is done installing, copy the .env example file from the root directory of the project, paste it in the same location and name it .env
- Then fill the credential corresponding to your mysql server in the .env file then save it.
- Then, run the command `php artisan migrate --seed` in your root directory to migrate tables in to database and seed users.
- Lastly run the commands `php artisan serve` and `npm run dev` and following the localhost on your browser, you will see the project.

API

- The API is done using Laravel framework.
- The authentication used for api routes is default Laravel API authentication (Laravel sanctum).
- To visit the protected Apis, you need a bearer token which is supplied to you on login and destroyed on logout.