Aspire REST API

Laravel Code Challenge

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# Introduction

It is a simple REST API's for the private loan application. Authenticated users can able to request loan from lenders through loan application. Based on the admin approval, loan will get sanction and repayment will start as per the term which customer mentioned in the loan request.

# Prerequisites

* PHP >= 7.4
* Laravel >= 8
* MySQL >= 10.4
* Postman
* Laravel Unit Testing

# Overview

This application have three different REST API to achieve the above requirement. There is no UI build around. The default admin user after seeding is [admin@admin.com](mailto:admin@admin.com) / admin@123

# Brief flow of the App:

To access this application, the user should be registered with us and authorized user can able to avail the benefits.

## Auth API:

* 1. User first register by using name and email id. The default password of every user is set as demo@123. ( System will send a welcome email notification)
  2. User will login using the register email id and the password. The API will response few user details and a token after successful login. Copy that token for further processing.
  3. User will request for loan via loan API. Having Amount and Term as required fields. The token generated above will be used with the request as Bearer token.

# Admin API:

* 1. Admin will approve the loan using the admin approval API. And repayment data will be calculated and stored in the repayment table. ( System will send a loan approval notification).( This required a token from admin login)

# Transaction API:

* 1. User will fetch all the pending payments using transaction API and collet the repayment id.
  2. User will create a transaction using the repayment id.
  3. Once all the pending transactions are done, The loan will automatically marked as paid. ( System send a notification to user about success completion of loan)

# Installation

1. Clone or download this repository

$ git clone https://github.com/sanojsharma/mini-loan-app.git

1. Run in project folder

$ composer install

1. Rename the .env.example to .env

Configure your desired environment variables.

# Migration and Seed

1. Run in project folder

$ php artisan migrate:fresh –seed

1. In this demo, have used laravel-passport package, which should install before start.

$ composer require laravel/passport

1. Run in project folder

$ php artisan passport:install

# Email Service Provider:

<https://mailtrap.io/>

1. Create a free account.
2. Go to inbox and click on SMTP details
3. Select Laravel as option.
4. Copy the details to .env file of the project.

# Test credentials

* User email account available under 'Users' table 'email' column.
* All seeded accounts use demo@123' password as well

# Testing

The app contains 3 test cases( Test name and commands are as below):

1. **UserTest** : php artisan test --filter UserTest
2. **LoanTest**: php artisan test --filter LoanTest
3. **TransactionTest**: php artisan test --filter TransactionTest

# Postman Setup

* Download the postman Json from the link provided.
* Import postman\_collection.json file into Postman Collections
* Configure postman environment variable **(host)** as your application root path

# *Flow* chat

Diagram

Description automatically generated

\*\*\* Thank You \*\*\*