

API Development with Geolocation and User Authentication

Task time estimate: 1 - 3 hours

The Challenge:

We need to develop an app for [Wanderung](#) which requires a Laravel backend application. Your task is to create a Laravel application that provides a RESTful API for retrieving information about nearby locations in Google Maps based on the provided [coordinates](#) (e.g., latitude and longitude) from google map. The API should also enable users to sign up and log in. The following are further application details:

1. Implement the following API endpoints for user authentication:
 - a. POST `/api/signup`: Allow users to sign up by providing their email and password.
 - b. POST `/api/login`: Allow users to log in by providing their email and password.
2. Extend the existing API endpoint for nearby place search:
 - a. GET `/api/places?lat={latitude}&long={longitude}`: Get a list of nearby places based on the provided coordinates. The API should return a list of places within a certain radius (e.g., 5 kilometres) from the given coordinates.
3. Use an external geolocation service (e.g., Google Maps API) to fetch the actual details of the places based on the coordinates.

Expected Outcome:

The anticipated result is an API service (hosted online or operating on localhost) in which:

- Users should be able to sign up and log in to the API using an email and password.
- Authenticated users should be able to get a list of nearby places by entering a coordinate.
- To obtain information about the places, the API must communicate with an external geolocation provider such as Google map API.
- The API response should provide relevant information about nearby places, such as place name, address, and any other facts that you find useful for the Wanderung app.

Instructions to Submit:

- Create a new Git repository and set up the Laravel project in the repository.
- Implement the API endpoints for user authentication and integration with the external geolocation service.
- Commit your code regularly, with clear commit messages.
- Push your code to a public or private repository including your pstman collection.
- Provide the repository link and any necessary setup instructions.

Additional Instructions:

Please ensure that your code follows RESTful API design principles, handles error scenarios gracefully, includes proper documentation for the API endpoints, and securely stores and handles user passwords. Additionally, make sure to handle any potential rate limits or API key requirements from the external geolocation service.

We believe that the task specifications are complete. You can make assumptions and publish them in the git README if you think that any critical information is missing. GOOD LUCK! 😊