

API DOCUMENTATION

POSTMAN

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Technical Documentation Summary

Overview

This microservices-based application handles user registration, authentication, and authorization. It is built using Laravel 11 and Dockerized via Laravel Sail. The architecture includes multiple decoupled services for specific functionalities.

API Gateway

The API Gateway, a Laravel 11 application, acts as a proxy, routing requests to appropriate microservices:

- **Authentication:** Handles user registration and login.
- **Authorization:** Manages user permissions and roles.
- **Profile:** Manages user profile data.

Kafka Integration

Kafka is used for messaging between microservices. For example, when a user registers, the authentication service sends messages to the authorization and profile services to update user data.

Authentication Microservice

Endpoints include:

- **User Registration:** /register
- **User Login:** /login

During the login action, the API Gateway checks with the authentication microservice to verify user existence and correctness. If the credentials are correct, it continues by sending a token back to the client. For profile checks, the gateway verifies authorization with the authorization microservice before proceeding with the request.

Authorization Microservice

This microservice manages user permissions and roles. It ensures that users have the necessary permissions to access specific resources. The API Gateway communicates with this service to validate user authorization before processing requests that require specific permissions.

Profile Microservice

This service manages user profile data. When a user registers, the authentication microservice sends a message via Kafka to the profile service to create and update user profiles. Kafka ensures that all microservices are synchronized and that user data is consistently updated across the system.

Security

- **JWT:** Token-based authentication.
- **Password Hashing:** Secure password storage.

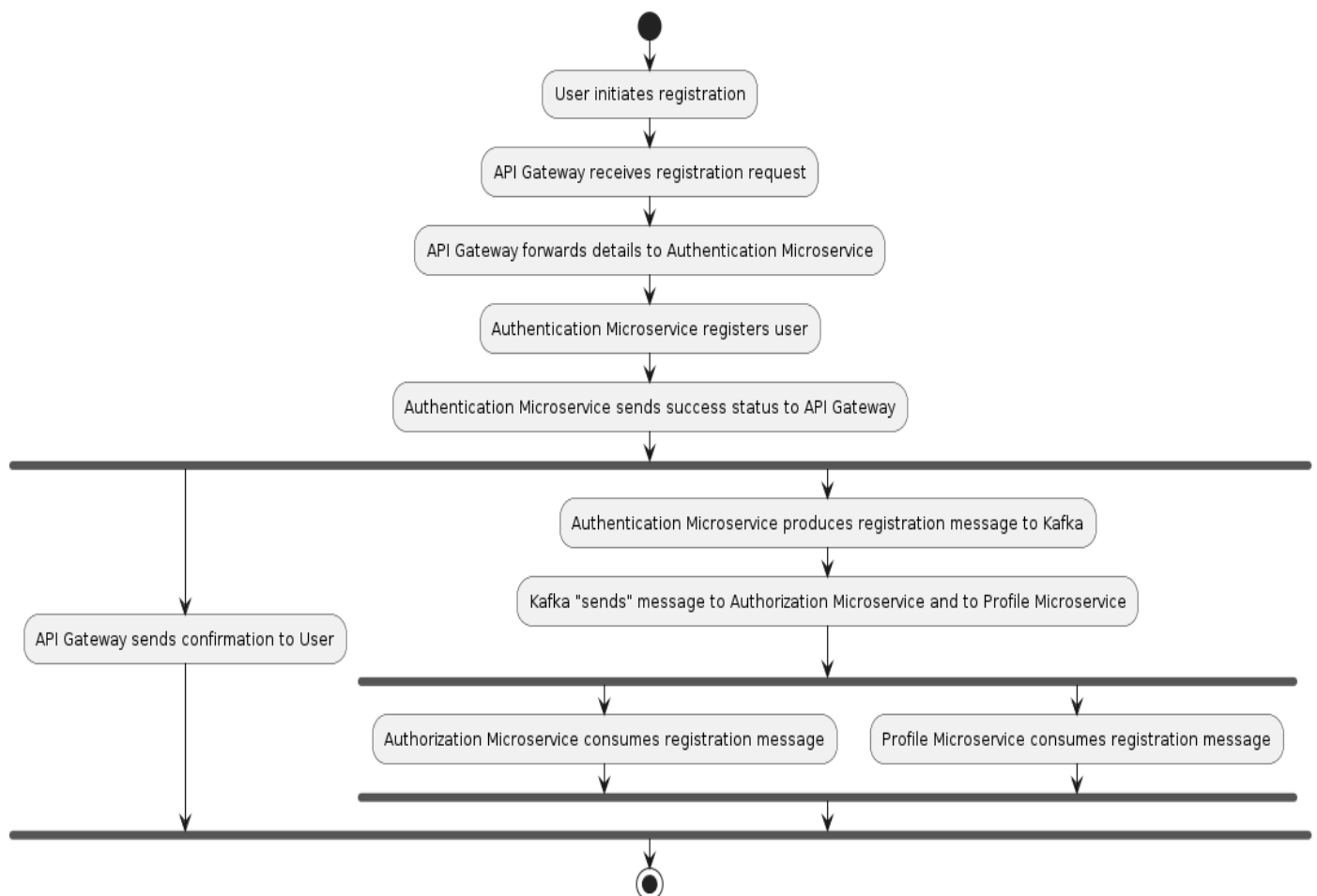
Error Handling

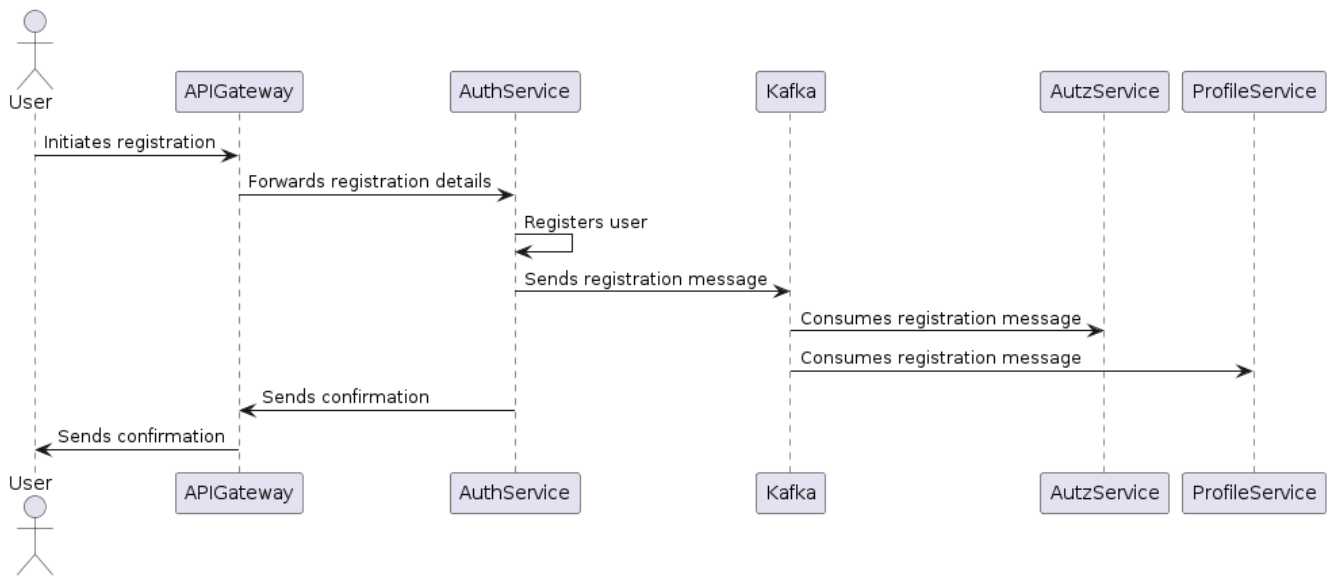
Standardized response codes and error messages ensure consistent API behavior.

For detailed API specifications, you can access the full documentation [here](#).

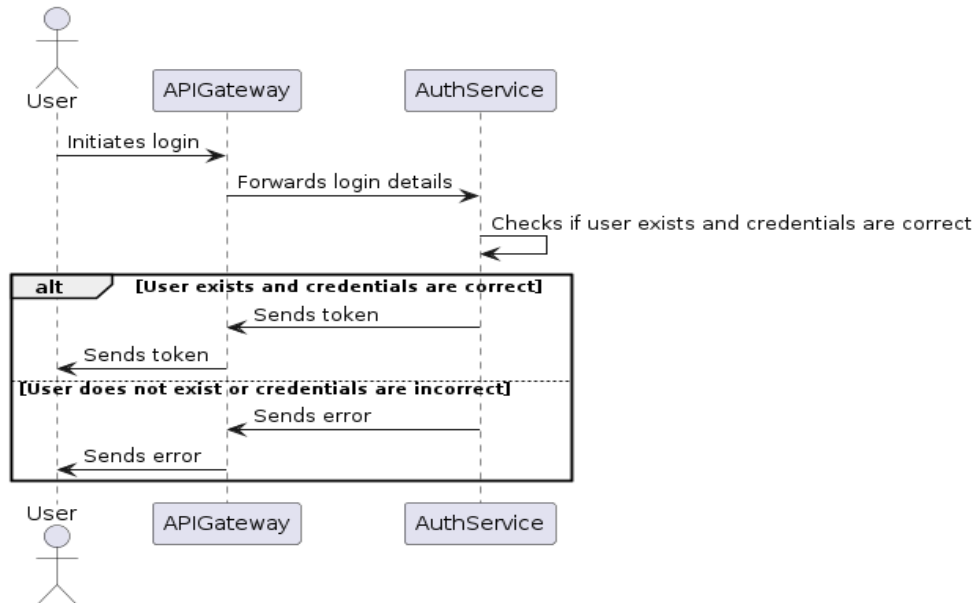
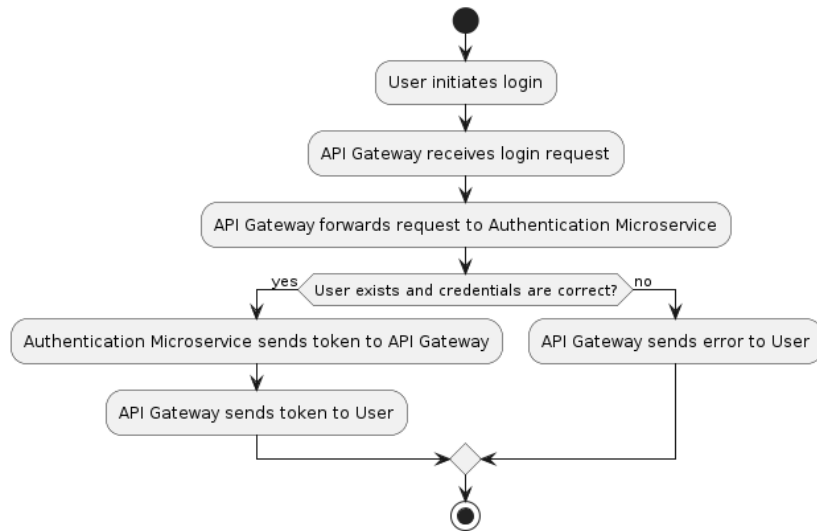
UML Diagrams

Registration





Login



Get Authorized Resource (Profile in our case)

