Uber Backend Automation Test Overview

Project:
Uber Backend C++ Microservices

Execution Timestamp:
2025-09-26 12:42:54Z UTC

Objective:
Validate build readiness, attempt containerized deployment setup, and exercise documented end-to-end scenarios.

Repository Preparation:
Cloned repository available in /workspace/uber_backend. Build dependencies resolved with Conan 2.20.1 (pip).

Build Summary:
`conan build . --output-folder=build --build=missing` succeeded. All binaries (UserManager, RideManager, LocationManager) linked without compiler errors using GCC 13.3.0.

Docker Environment:
Docker CLI is unavailable in the execution environment (`docker --version` -> command not found). Unable to provision Kafka, RabbitMQ, and database containers for an end-to-end test deploy.

Runtime Validation:
Because the service stack depends on Docker infrastructure (Kafka, RabbitMQ, SQL), servers could not be started within this environment. No runtime smoke tests executed.

Scenario Testing:
System validation scenarios described in docs/system_validation_scenarios.md could not be exercised due to missing message brokers and databases. All steps remain unverified in this run.

Artifacts:
Build outputs located under build/bin. No additional logs generated.

Recommendations:
Run inside a host with Docker Engine and provision the compose stack to replay scenarios. Verify external dependencies (Kafka, RabbitMQ, MySQL/PostgreSQL) and re-run HTTP flows with tooling such as curl or Postman.