Submission Instructions: Real-Time Engagement API

1. Code Repository Structure

The entire project must be submitted as a single Git repository (e.g., hosted publicly on GitHub, GitLab, or Bitbucket).

- Repository Name: awari-backend-assessment-api (or similar).
- Root Folder Contents: Must contain all configuration files necessary to run the project.

2. Required Files

File	Purpose	Requirement
README.md	Primary Documentation	Mandatory (See Section 3 below).
package.json	Dependencies	Must include all required dependencies (@nestjs/graphql, graphql-tools, graphql-subscriptions, graphql-redis-subscription s, mongoose, etc.).
Dockerfile	Containerization	A robust file for building the application image.
docker-compose.yml	Local Setup	A file to spin up the entire stack: NestJS API , MongoDB, and Redis with a single command.

Source Code	src/ folder	Well-structured code reflecting a modular NestJS application (e.g.,
		separate modules for Auth, Post, PubSub).

3. The README.md Guide (Crucial)

The README.md must function as a comprehensive guide for the reviewer. It should include the following sections:

3.1. Setup & Execution

- **Prerequisites:** List required software (Node.js version, Docker, Git).
- Local Run Command: Provide the single command to start all services locally (e.g., docker-compose up).
- API Endpoint: Specify the URL and port where the GraphQL playground or API will be available (e.g., http://localhost:3000/graphql).

3.2. Design Decisions

- Data Model: Clearly define the final MongoDB Schema for the Post document, explaining how you store and manage the likeCount, dislikeCount, and the list of users who have interacted with the post. Justify your choice of embedding vs. referencing for the like data.
- Real-Time Flow: Briefly describe the sequence of events when a user executes the likePost mutation (e.g., DB update \$\rightarrow\$ Redis PubSub publish \$\rightarrow\$ Subscription broadcast).
- **Security/Auth Mock:** Explain how the current user's ID is being mocked/retrieved for the purpose of the assessment.

3.3. Testing & Verification

- **Test Case 1 (Mutation):** Provide the full GraphQL mutation query (and variables) needed to **like a post**.
- **Test Case 2 (Subscription):** Provide the full GraphQL subscription query needed to **subscribe to updates** for that post ID.
- **Test Scenario Instructions:** Provide step-by-step instructions (e.g., "Open two browser tabs/tools, execute the Subscription in Tab 1, then execute the Mutation in Tab 2, and observe the instant update in Tab 1").

4. Submission Deadline

- The candidate must be clearly informed of the time limit (e.g., "The project should be completed and the repository link shared within **96 hours / 4 days** of receiving these instructions.").
- The email or message sharing the repository link should confirm that the solution meets all requirements and is runnable via the provided docker-compose.yml.

5. Interview Preparation

The candidate should be informed that the follow-up technical interview will focus
entirely on discussing the design decisions, code structure, and scaling considerations of
this project.