

## Mock Code Challenge

Please build an **AWS Lambda-compatible Fullstack Node.js application using TypeScript** that includes the following features:

### Authentication

- Use **AWS Cognito** for user registration and login.
- **Auth Flow:** USER\_PASSWORD\_AUTH
- **Required Attributes:** email, preferred\_username, name
- **App Client ID:** 54p32d5n5j5m2t0gt45e9og8vo
- **App Secret Key:** dnel7s515mgqk74rurttlrhqsb0p21kgmuInfljdlcfvo04lvde

### Score Submission & Storage

- Store authenticated users' scores in **DynamoDB** under the leaderboard table
- **Table ARN:**  
arn:aws:dynamodb:eu-north-1:893130088846:table/leaderboard
- **Columns:**
  - id (String – generate a unique ID)

- user\_id (String – from Cognito)
- user\_name (String – from Cognito)
- score (Integer)
- timestamp (Integer)

### Real-Time Notification

- If a user's score is **greater than 1000**, send a message using **AWS API Gateway WebSocket**

### WebSocket API Gateway

**WebSocket URL:**

<wss://gdjtdhwxkf.execute-api.eu-north-1.amazonaws.com/production/>

**Connection URL:**

<https://gdjtdhwxkf.execute-api.eu-north-1.amazonaws.com/production/@connections>.

### Leaderboard Retrieval

- Return the **current top 1 scores** from the leaderboard table via an endpoint

## Mock AWS Credentials

Use the following credentials for your implementation:

- **IAM User ARN:** arn:aws:iam::893130088846:user/testuser
- **Access Key ID:** AKIA474VTUGHK62Y2HHT
- **Secret Access Key:** XCLmzk1X6TlvNkyRwl9CFq6ZmiEFdzixkX/wwVUI