Test Cases for Insur-AI Application

Positive Test Cases

1. User Registration

- Test Case: Register a new user with valid email, password, firstName, lastName, phone, countryCode, category.

- Input: email='test@example.com', password='password123', firstName='John', lastName='Doe', phone='1234567890', countryCode='+1', category='USER'

- Expected Result: HTTP 200 OK, user created successfully.

2. User Login

- Test Case: Login with valid credentials.

- Input: email='test@example.com', password='password123', category='USER'

- Expected Result: HTTP 200 OK, user object returned.

3. Create Agent Availability

- Test Case: Agent creates availability slot.

- Input: agentId='1', availabilityDate='2023-10-01', startTime='09:00', endTime='17:00', notes='Available'

- Expected Result: HTTP 200 OK, availability created with status 'Available'.

4. Get Agent Availability

- Test Case: Retrieve availability for an agent.

- Input: agentId='1'

- Expected Result: HTTP 200 OK, list of availability slots.

5. Book Agent Slot

- Test Case: User books an available slot.

- Input: id=1 (availability id)

- Expected Result: HTTP 200 OK, status changed to 'Booked'.

6. Get Online Agents

- Test Case: Retrieve list of online agents.

- Input: None

- Expected Result: HTTP 200 OK, list of agents with status 'Available'.

Negative Test Cases

4. Get Agent Availability

- Test Case: Get availability for non-existent agent.

- Input: agentId='999'

- Expected Result: HTTP 200 OK, empty list.

5. Book Agent Slot

- Test Case: Book non-existent slot.

- Input: id=999

- Expected Result: HTTP 404 Not Found.

6. Get Online Agents

- Test Case: No agents available.

- Input: None

- Expected Result: HTTP 200 OK, empty list.

Testing Results

To obtain testing results, run the following command in the backend/insurai directory:

mvn test