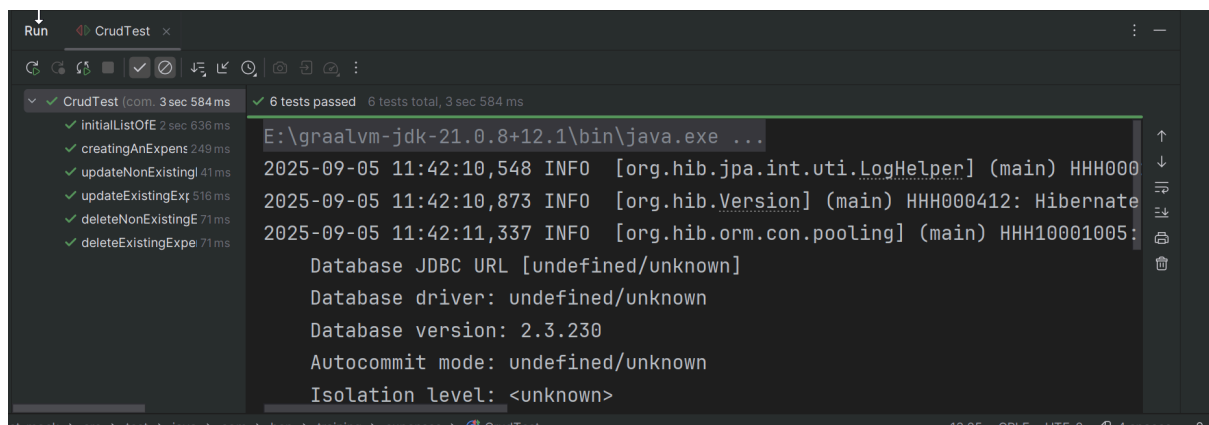


4. Para que el CrudTest.java funcione, agregar en tu properties:

```
quarkus.rest-client."com.bcp.training.expenses.FraudScoreService".url=http://localhost:9080
```

5. Ejecuta la prueba y deberías tener este resultado:



```
Run CrudTest x
6 tests passed 6 tests total, 3 sec 584 ms
initialListOfe 2 sec 636 ms
creatingAnExpense 249 ms
updateNonExistingExpense 41 ms
updateExistingExpense 516 ms
deleteNonExistingExpense 71 ms
deleteExistingExpense 71 ms
E:\graalvm-jdk-21.0.8+12.1\bin\java.exe ...
2025-09-05 11:42:10,548 INFO [org.hib.jpa.int.uti.LogHelper] (main) HHH000
2025-09-05 11:42:10,873 INFO [org.hib.Version] (main) HHH000412: Hibernate
2025-09-05 11:42:11,337 INFO [org.hib.orm.con.pooling] (main) HHH10001005:
Database JDBC URL [undefined/unknown]
Database driver: undefined/unknown
Database version: 2.3.230
Autocommit mode: undefined/unknown
Isolation level: <unknown>
```

6. Ahora probemos ServiceMockTest.java

Implementar:

```
@InjectMock
ExpenseService mockExpenseService;
```

```
@Test
public void creatingAnExpenseReturns400OnInvalidAmountAndType() {
    Mockito.when(
        mockExpenseService.meetsMinimumAmount(Mockito.anyDouble())
    ).thenReturn(false);

    given()
        .body(CrudTest.generateExpenseJson(
```

```
        "",  
        "Expense 1",  
        "CASH",  
        99999  
    ))  
    .contentType(ContentType.JSON)  
    .when()  
    .post("/expenses")  
    .then().statusCode(400);  
}
```

7. Implementar el Mock de ExpenseService:

```
@Mock  
@ApplicationScoped  
public class ExpenseServiceMock extends  
ExpenseService {  
  
    @Override  
    public boolean exists(UUID uuid) {  
        return  
!uuid.equals(UUID.fromString(CrudTest.NON_EXISTI  
NG_UUID));  
    }  
}
```

8. Ahora vamos a implementar PanacheMock

```
@QuarkusTest  
  
public class PanacheMockTest {
```

```
@Test

public void listOfExpensesReturnsAnEmptyList() {

    Mockito.when(Expense.listAll()).thenReturn(Collect
ions.emptyList());

    given()

        .when().get("/expenses")

        .then()

        .statusCode(200)

        .body("$.size()", is(0));

}

}
```

9. Hay que crear un PanacheMock

```
@BeforeAll

public static void setup() {

    PanacheMock.mock(Expense.class);

}
```

10. Volvemos a probar el test y debería funcionar.



enjoy!

Jose