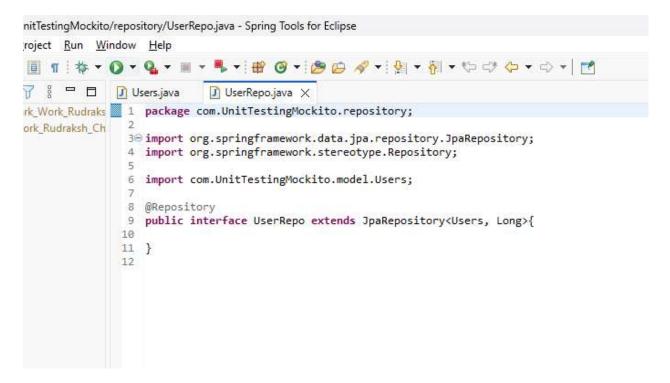
### Rudraksh Chourey

## **Entity Model Code:**

```
1 package com.UnitTestingMockito.model;
  30 import jakarta.persistence.Table;
  5 import jakarta.persistence.Entity;
  6 import jakarta.persistence.Id;
  8 @Entity
 9 @Table(name="userMockito")
 10 public class Users {
 11
        @Id
 12
        private Long userid;
 13
        private String name;
 140
        public Long getId() {
 15
            return userid;
 16
 179
        public void setId(Long id) {
            this.userid = id;
 18
 19
 200
        public String getName() {
 21
            return name;
 22
 23⊕
        public void setName(String name) {
 24
            this.name = name;
 25
 26⊖
        public Users() {
            // TODO Auto-generated constructor stub
27
 28
 29⊖
        public Users(Long id, String name) {
 30
            this.userid = id;
 31
            this.name = name;
 32
        }
 33
 34
 35
 36 }
 37
```

#### **User Repository Code**



#### **User Service Code**

```
to/service/UserService.java - Spring Tools for Eclipse
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  J Users.java
                UserRepo.java
                                1 package com.UnitTestingMockito.service;
    30 import org.springframework.stereotype.Service;
    5 import com.UnitTestingMockito.model.Users;
    6 import com.UnitTestingMockito.repository.UserRepo;
    8 @Service
    9 public class UserService {
   10
          private final UserRepo userRepository;
          public UserService(UserRepo userRepository) {
   119
   12
              this.userRepository = userRepository;
   13
   14
   159
          public String getUserNameById(Long id) {
              return userRepository.findById(id)
   16
   17
                     .map(Users::getName)
   18
                     .orElse("Unknown");
   19
          }
   20 }
   21
```

#### User Service Test code

est/java/com/UnitTestingMockito/UserServiceTest.java - Spring Tools for Eclipse

```
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☑ UserRepo.java

                                 UserService.java

↓ *UserServiceTest.java ×
  Users.java
   16 import com.unitrestingmockito.model.users;
   17 import com.UnitTestingMockito.repository.UserRepo;
   18 import com.UnitTestingMockito.service.UserService;
   20 import io.micrometer.core.instrument.Timer;
   21 import io.micrometer.prometheus.PrometheusConfig;
   22 import io.micrometer.prometheus.PrometheusMeterRegistry;
   23
   24 @ExtendWith(MockitoExtension.class)
   25 class UserServiceTest {
   26
           @Mock
   27
          private UserRepo userRepository;
   28
   29
           @InjectMocks
   30
           private UserService userService;
   32
   33⊕
           void shouldReturnUserName_whenUserExists() {
              PrometheusMeterRegistry registry = new PrometheusMeterRegistry(PrometheusConfig.DEFAULT);
   34
   35
              Timer timer = registry.timer("application.process.time");
   369
              timer.record(()->{
   37
                  Users user = new Users(1L, "Alice");
                  when(userRepository.findById(1L)).thenReturn(Optional.of(user));
   38
   39
   40
                  String result = userService.getUserNameById(1L);
   41
                  assertEquals("Alice", result);
   42
                  verify(userRepository).findById(1L);
   43
              });
               System.out.println(registry.scrape());
   45
           }
   46
   47
           @Test
   489
           void shouldReturnUnknown_whenUserNotFound() {
   49
              when (userRepository.findById(2L)).thenReturn (Optional.empty());
   50
               String result = userService.getUserNameById(2L);
   51
              assertEquals("Unknown", result);
   52
   53
   54 }
```

# Output:

