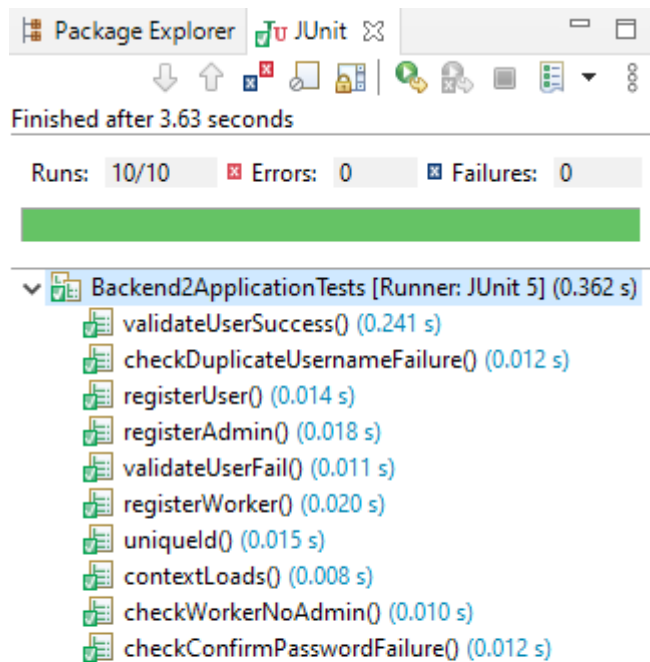


# Back End Unit Testing for Milestone 2

## Register and Login Tests



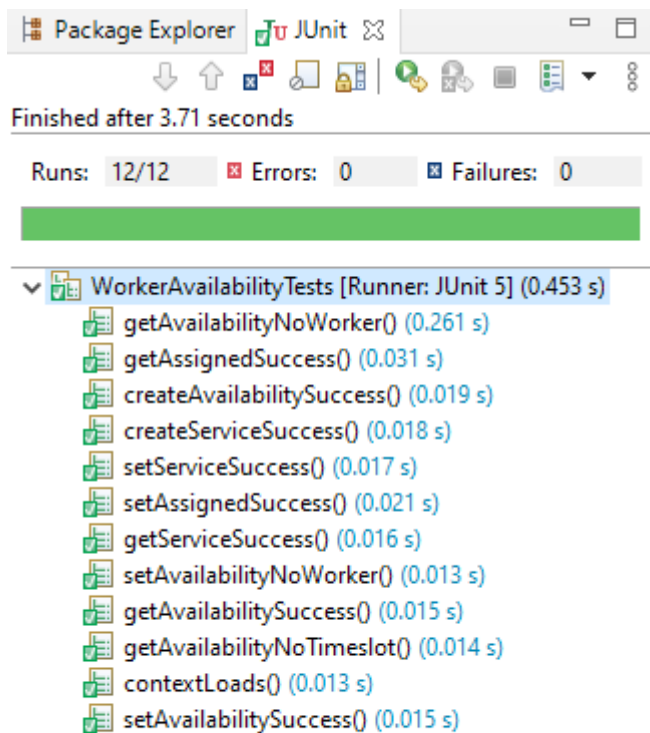
### User Registration Tests:

- We test if registering a customer passes without calling an exception.
- We test if registering an admin passes without calling an exception.
- We test if registering a worker assigned to an admin passes without calling an exception.
- We test that all users are given a unique ID.
- We test if registering a user with a different value in the password and confirm password fields calls an exception.
- We test if registering a user with a username that already exists calls an exception.
- We test if registering a worker to an invalid admin calls an exception.

### Login Tests:

- We test if a correct validation of a user is successful.
- We test if an incorrect validation of a user calls an exception.

## Worker Availability Tests



### Worker Availability Tests:

- We test if setting availability for a worker passes without calling an exception.
- We test if getting availability for a worker and a time returns the correct value.
- We test if creating an availability for a worker works correctly.
- We test if setting availability for a worker that does not exist calls an exception.
- We test if getting availability for a worker that does not exist calls an exception.
- We test if getting availability for a time that is not in the database calls an exception.

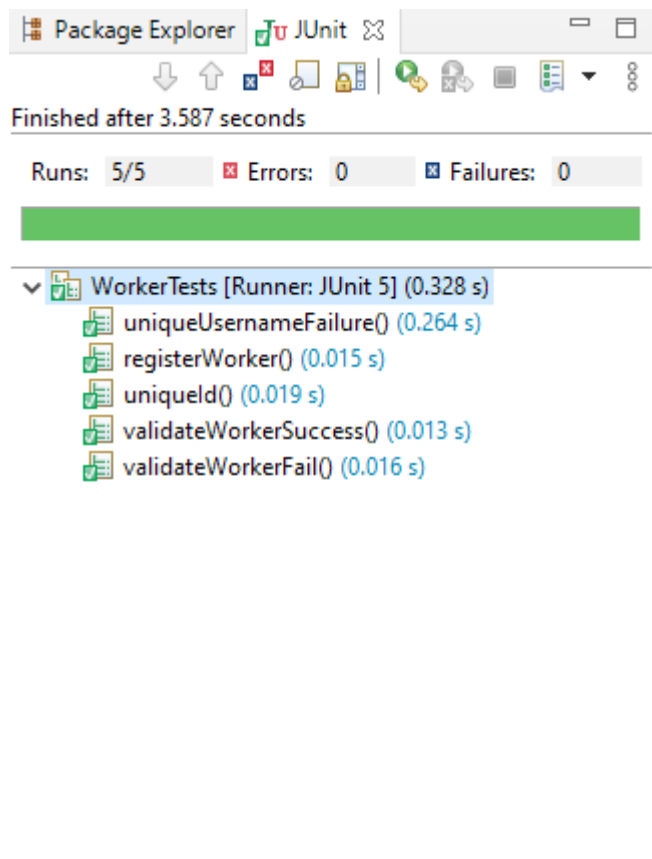
### Worker Shift Tests:

- We test if assigning a worker to a shift passes without calling an exception.
- We test if retrieving all shifts for a worker returns the correct result.

### Worker Service Tests:

- We test if setting a service for a worker passes without calling an exception.
- We test if getting a service for a worker and a time returns the correct value.
- We test if creating a service for a worker works correctly.

## Adding Worker Tests



### Worker Registration Tests:

- We test if registering a worker passes without calling an exception.
- We test if registering a user with a username that already exists calls an exception.
- We test that all workers are given a unique ID.

### Worker Login Tests:

- We test if a correct validation of a worker is successful.
- We test if an incorrect validation of a worker calls an exception.

## Conclusion

In conclusion all the tests pass both in JUnit5 testing and CircleCI Maven testing which shows each function works as intended. All functionalities specified in sprint 1 and sprint 2 have been tested and are functional.