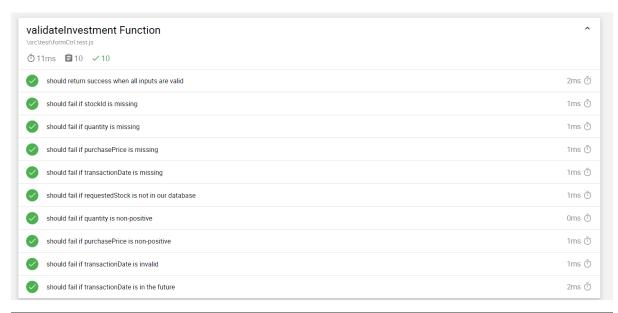
# **Unit Testing**

#### Unit Test on Add Investment Controller Form:



# Summary of Unit Tests for validateInvestment

The unit tests for the 'validateInvestment' function validate various input scenarios to ensure the function operates correctly and adheres to expected business rules. The test cases cover the following scenarios:

## 1. Valid Inputs:

- Ensures the function returns success when all required fields are present, correctly formatted, and meet the validation criteria.

#### 2. Missing Fields:

- Tests cases where one or more required fields (stockld, quantity, purchasePrice, transactionDate) are omitted. These tests verify that the function correctly identifies the missing data and returns an appropriate error message.

#### 3. Stock Existence:

- Validates that the function checks for the existence of the stock in the provided database. If the **stock ID** is invalid or not found, it ensures the appropriate error is returned.

### 4. Quantity Validation:

- Ensures the **quantity** field is a positive number. If the value is zero, negative, or invalid, the function should return an error.

#### 5. Purchase Price Validation:

- Verifies that the **purchasePrice** is a positive number. Negative or zero values should trigger a failure response.

#### 6. Transaction Date Validation:

- Confirms the function handles transaction **date** validations, including:
- Rejecting invalid date formats.
- Ensuring the date is not in the future.

Each test asserts the expected output against the actual result from the 'validateInvestment' function, ensuring correctness and reliability under diverse input conditions.