

WEEK 3: Unit Test Verification

The screenshot shows the IntelliJ IDEA IDE with the `AlertFactoryTest.java` file open. The file is located in the `com.alerts` package. The code defines a `AlertFactoryTest` class that tests the `AlertFactory` class. The test method `testFactoryCreatesAlert()` creates a `BloodPressureAlertFactory` and calls `factory.createAlert()` to create an alert. The test then asserts that the alert is not null and that its `getMessage()` method returns the expected message. The test results show that the test passed.

```
package com.alerts;

import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;

public class AlertFactoryTest {

    @Test
    public void testFactoryCreatesAlert() {
        AlertFactory factory = new BloodPressureAlertFactory();
        Alert alert = factory.createAlert(patientId: "P1", condition: "Too High", message: "123");
        assertEquals("P1", alert.getPatientId());
    }
}
```

Test Results: Tests passed: 1 of 1 test - 7ms. Process finished with exit code 0.

The screenshot shows the IntelliJ IDEA IDE with the `StrategyTest.java` file open. The file is located in the `com.alerts` package. The code defines a `StrategyTest` class that tests the `AlertStrategy` class. The test method `testStrategyCreatesAlert()` creates a `BloodPressureAlertStrategy` and calls `strategy.createAlert()` to create an alert. The test then asserts that the alert is not null and that its `getMessage()` method returns the expected message. The test results show that the test passed.

```
package com.alerts;

import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;

public class StrategyTest {

    @Test
    public void testStrategyCreatesAlert() {
        AlertStrategy strategy = new BloodPressureAlertStrategy();
        Alert alert = strategy.createAlert(patientId: "P1", condition: "Too High", message: "123");
        assertEquals("P1", alert.getPatientId());
    }
}
```

Test Results: Tests passed: 1 of 1 test - 16ms. Process finished with exit code 0.

The screenshot shows the IntelliJ IDEA IDE with the `AlertFactoryTest.java` file open. The file is located in the `com.alerts` package. The code defines a `AlertFactoryTest` class that tests the `AlertFactory` class. The test method `testFactoryCreatesAlert()` creates a `BloodPressureAlertFactory` and calls `factory.createAlert()` to create an alert. The test then asserts that the alert is not null and that its `getMessage()` method returns the expected message. The test results show that the test passed.

```
package com.alerts;

import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;

public class AlertFactoryTest {

    @Test
    public void testFactoryCreatesAlert() {
        AlertFactory factory = new BloodPressureAlertFactory();
        Alert alert = factory.createAlert(patientId: "P1", condition: "Too High", message: "123");
        assertEquals("P1", alert.getPatientId());
    }
}
```

Test Results: Tests passed: 1 of 1 test - 7ms. Process finished with exit code 0.

The screenshot shows the IntelliJ IDEA IDE with the `DecoratorTest.java` file open. The file is located in the `com.alerts` package. The code defines a `DecoratorTest` class that tests the `AlertDecorator` class. The test method `testDecoratorCreatesAlert()` creates a `BloodPressureAlertDecorator` and calls `decorator.createAlert()` to create an alert. The test then asserts that the alert is not null and that its `getMessage()` method returns the expected message. The test results show that the test passed.

```
package com.alerts;

import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;

public class DecoratorTest {

    @Test
    public void testDecoratorCreatesAlert() {
        AlertDecorator decorator = new BloodPressureAlertDecorator();
        Alert alert = decorator.createAlert(patientId: "P1", condition: "Too High", message: "123");
        assertEquals("P1", alert.getPatientId());
    }
}
```

Test Results: Tests passed: 1 of 1 test - 7ms. Process finished with exit code 0.

