Application Testing

Benjamin Roberts

Level 4 Software Development

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# Introduction

This report covers my research into Testing Frameworks and Methodologies, undertaken as an upskilling exercise so I can expand my knowledge and toolkit for ensuring the quality of software I work on. This will cover:

* A **theory review** of various Testing Frameworks and Methodologies accepted by the industry (with references)
* Provide details on which **Frameworks and Methodologies** are **used within my team**
* Expand on this via reaching out to our dedicated IT Testing teams, who I know engage in more testing methodologies then my team do, which will allow a view of testing in the wider organisation

Also covered are my efforts to apply these Testing Frameworks and Methodologies. To do this I put together a Test Plan for testing a deployed version of an implementation of our Credit Decisioning system. Within this plan I cover:

* **System Testing** - conducted via the Postman software, which makes use of JavaScript test cases via an implementation of the Chai library for running test cases on the HTTP response received from a web application
* **Integration testing** – for testing that our Credit Decisioning system integrates with 3rd party API's successfully (i.e. no errors returned for multiple real-world scenarios)
* **Performance Testing** - via testing peak volumes the system can handle

Possibly **Security testing** (not something we do in my team today, but I'm hopeful I could apply something with the support of our dedicated IT Testing teams)

(Note: would need to censor alot of sensitive information with this idea, possibly even specific parts of the written test code, but this would be a great idea to apply my learnings I feel.)

# Theory Review – Testing

To get started with this, I consulted our IT Development and Testing team leads for information on what methodologies and frameworks were used within the workplace. I approached these stakeholders as I knew they had a higher level of technical expertise then my team (who are a more hybrid team).

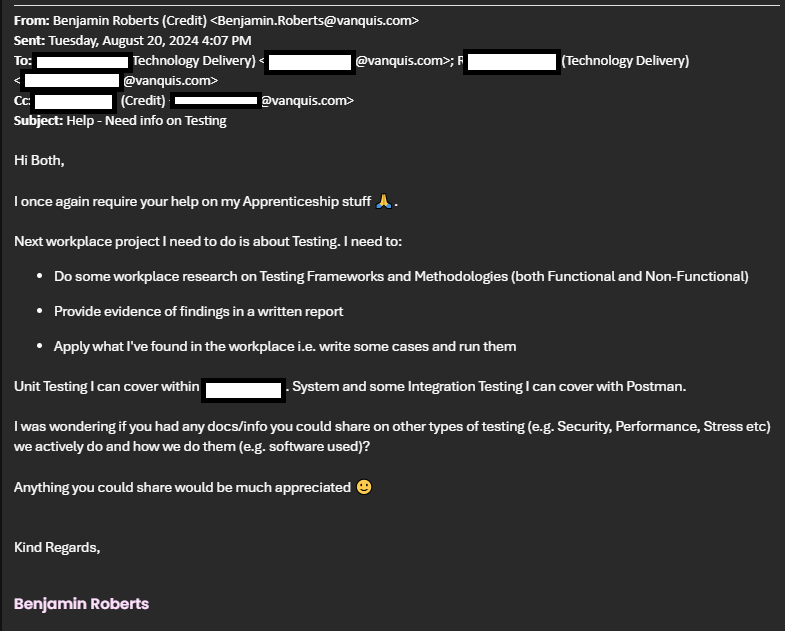


Figure 1 - Internal Email Communication with IT Development & Testing Leads (names redacted for privacy)

Below shows the response I got from the stakeholders. They provided suggestions of where to start with methodologies and frames for my theory review, along with suggestions of tools I could look at for conducting testing. Also was an invitation to discuss further in person.

A screenshot of a computer

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Figure 2- Email Response from IT with starting point suggestions

With this starting point, I’ve broken down the theory review into multiple sections below.

## Methodologies

Software Testing Methodologies are various strategies/approaches used for testing an application for ensuring it looks and behaves as per requirements (Smartbear, 2024a). These form the strategic approach to how developers/teams will test a piece of software. The types of testing can be split into types:

1. **Functional**, including Unit, Integration, System and User Acceptable Testing
2. **Non**-**Functional**, including Performance, Security and Accessibility Testing

Aside from these different types of testing, an overall strategical plan for testing is required to be able to apply these different forms of testing effectively when developing software.

### Strategical Approach: Shift-Left Testing

To get started, I took up an offer from one of our technical IT Delivery Leads to discuss approaches to testing one-to-one in greater detail. I set up a Web Meeting for this:

A screenshot of a computer

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Figure 3- Microsoft Teams meeting for discussing approaches to Software Testing

Our delivery lead gave me good information to get started on and recommendations on what to investigate. One highlight was the “Shift-Left” approach to testing. This is an approach that aims to perform testing earlier in the development cycle, rather than having isolated phases of development and testing (IBM, 2023).

Shift Left Testing is accomplished by using various kinds of testing that can be executed throughout the software’s development, as demonstrated in the figure below:

A diagram of a software development process

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Figure 4- Traditional view o Shift-Left testing, with various forms of testing applied (Wikimedia.org, 2024)

Here, we see high level requirements broken down as the software development cycle continues, until we get down to the design and coding levels. From there, we immediately start different forms of testing, therefore moving testing from the end of the lifecycle to be directly integrated with the development. This is the “V-Model”, which allows development team to verify early on that their solutions match the requirements provided and validate they solve the business problems that the software is intended to address (IBM, 2023).

A key benefit of moving testing earlier into the cycle like this is that it allows bugs/faults to be identified earlier in the software development process. Bugs/Faults found later in the process lead to more costs as the software needs to be sent back to the development teams to fix, or in a worst case scenario can create production level incidents that can cost the business significantly (ether financially or reputationally). The below figure visualises how cost to fix bug/faults increases as they are found later in the process:

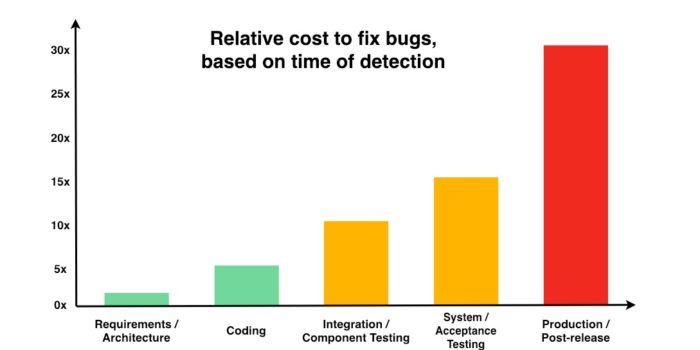


Figure 5 - Escalating costs of bugs/faults as they are found later in the Development process (BrowserStack, n.d.)

Dedicated end to end testing phases are still important under this strategy, but Shift-left allows potentially costly bugs to be found earlier in the process.

#### Behaviour Driven Development

Behaviour Driven Development is one way to apply this shift left strategy by bringing user requirements directly into the development and testing processes and using them as a basis for writing test cases.

When meeting with internal technical stakeholders

A screenshot of a computer

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Figure 6 - Example of a workplace Test case written in Gherkin language (with sensitive information redacted)

#### Test Driven Development

#### Data Driven Development

### Functional Testing

Functional Testing is about the application against the business requirements set e.g. does a specific feature perform per expectations (Smartbear, 2024a). Different forms of Functional testing are covered below.

Typically, there is an order to how these forms of Functional testing are done, as seen below:

![A diagram of a software testing process

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFiaGlzaGVrIFRpd2FyaQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADOTUAAJKSAAIAAAADOTUAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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JrpKKAOb/4Vx4I/wChN8P/APgrg/8AiaP+FceCP+hN8P8A/grg/wDia6SigDm/+FceCP8AoTfD/wD4K4P/AImj/hXHgj/oTfD/AP4K4P8A4mukooA5v/hXHgj/AKE3w/8A+CuD/wCJo/4Vx4I/6E3w/wD+CuD/AOJrpKKAOb/4Vx4I/wChN8P/APgrg/8AiaP+FceCP+hN8P8A/grg/wDia6SigDm/+FceCP8AoTfD/wD4K4P/AImj/hXHgj/oTfD/AP4K4P8A4mukooA5v/hXHgj/AKE3w/8A+CuD/wCJo/4Vx4I/6E3w/wD+CuD/AOJrpKKAOb/4Vx4I/wChN8P/APgrg/8AiaP+FceCP+hN8P8A/grg/wDia6SigDm/+FceCP8AoTfD/wD4K4P/AImj/hXHgj/oTfD/AP4K4P8A4mukooA5v/hXHgj/AKE3w/8A+CuD/wCJo/4Vx4I/6E3w/wD+CuD/AOJrpKKAOb/4Vx4I/wChN8P/APgrg/8AiaP+FceCP+hN8P8A/grg/wDia6SigDm/+FceCP8AoTfD/wD4K4P/AImj/hXHgj/oTfD/AP4K4P8A4mukooA5v/hXHgj/AKE3w/8A+CuD/wCJo/4Vx4I/6E3w/wD+CuD/AOJrpKKAOb/4Vx4I/wChN8P/APgrg/8AiaP+FceCP+hN8P8A/grg/wDia6SigDm/+FceCP8AoTfD/wD4K4P/AImj/hXHgj/oTfD/AP4K4P8A4mukooA5v/hXHgj/AKE3w/8A+CuD/wCJo/4Vx4I/6E3w/wD+CuD/AOJrpKKAOb/4Vx4I/wChN8P/APgrg/8AiaP+FceCP+hN8P8A/grg/wDia6SigDm/+FceCP8AoTfD/wD4K4P/AImj/hXHgj/oTfD/AP4K4P8A4mukooAytL8LeH9DaRtF0LTdOMuPMNpZxxb8dM7QM4yfzrVoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//2Q==)

Figure 7 - Typical Hierarchy to order different types of Functional Testing is conducted

(GeeksForGeeks, 2024b)

#### Unit Testing

Unit Testing involves testing small pieces of code in isolation, allowing the behaviour of the component under test to be proven without any dependency on other parts of the software (AWS, 2024). This is the typical 1st level of testing and is often performed by the development team directly (Smartbear, 2024a). The advantage of this is that it allows a developer to confirm that their written code performs the function it’s expected to without having to design specific test data to handle other components that could block access to the function under test.

My team do this kind of testing within our Credit Decisioning platform as a standard part of our development process. Each piece of functionality has multiple unit tests created for it to demonstrate every possible outcome the component under test could return.

We use a 3rd party provided software to build and manage our decisioning platform, so the exact design how this work is considered trade secrets. As a compromise, the figure below shows a typical unit test we would create within the Java JUnit Framework (an open-source testing framework), which provides the same kind of functionality:

A screenshot of a computer program

Description automatically generated

Figure 8- Java JUnit representation of a Unit Test my team would write within our Credit Decisioning platform

Unit Tests work on the concept of Assertions, which define a TRUE/FALSE condition that must evaluate to TRUE for the Unit Test to pass. Different Frameworks provide various ways to define these Assertions, but a common one is “AssertEquals”, which tests if the output of the component under test equals an expected value. In this example, the 1st parameter passed into the “AssertEquals” method represents the expected value, while the 2nd parameter is the component under test. The method being passed in as the 2nd parameter returns a value back to “AssertEquals”, which can then determine if the test passes or fails by comparing the 2 parameters. Developer Tools the present the result back to the developer e.g. in our Credit Decisioning platform, this gets presented within a specific view available to the platform, seen below:

A screenshot of a computer

Description automatically generated

Figure 9- Unit Test Results as seen in our Credit Decisioning platform

Successful tests appear as regular text within this view, while failed tests will appear in red with a “FAIL” indicator next to them.

Once developed, Unit Tests can be run repeatedly. This makes them useful for confirming a component still works as intended if changes are make to it later.

#### Integration Testing

Integration Testing tests the interface between 2 systems or modules, looking for potential issues that would impact the functionality of both systems/modules. This is typically done after Unit Testing and before System Testing (GeeksForGeeks, 2024a). Unit Tests would instead make use of mocking services to force specific responses from integrated systems where the components under test would require then, which keeps the scopes of the test scenarios separate.

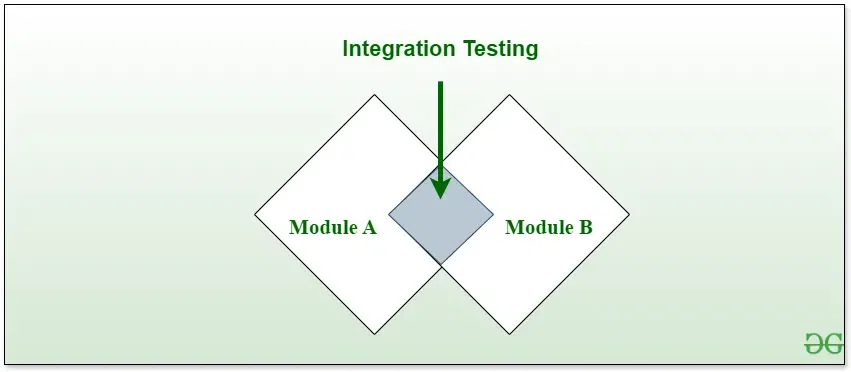


Figure 10- Visual Representation of Integration Testing

An applied example would be testing the communication one system has with integrated web services e.g. our internal Credit Decisioning engine integrates with API’s offered by the 3 main credit bureaus in the UK: Experian, TransUnion and Equifax. These providers return data on a person’s Credit file, which can be used for assessing a person’s credit worthiness in a more informed manner then solely relying on data provided by a person or from internal data the business holds.

For the benefits of the example to materialise however, the business needs a degree of confidence that the Credit Decisioning system can retrieve a proper response from the source API. Test cases therefore need to cover:

1. A successful connection can be made to the credit bureau API
2. The data returned is per expectations, based on the input provided e.g. if a person were to provide multiple addresses, the decisioning engine sends all of them to the credit bureau API and all are searched on the credit bureau’s service
3. The response from the credit bureau API can be successfully interpreted by the originating system

#### System Testing

Systems testing is done on a completely integrated system to check the developed software meets the original business requirements and is typically done after Unit and Integration testing (GeeksForGeeks, 2024b). This process is core for ensuring the final product can deliver value to the business.

Typically this testing is done by a dedicated test team, rather than the developers (Smartbear, 2024a). This separation gives the testers independence to test the software from an impartial perspective (GeeksForGeeks, 2024b), which can allow them to find issues that may not occur to the development team.

If any gaps/faults between the system and the requirements are found, these are communicated back to the development team to investigate.

#### Acceptance Testing (UAT)

### Non-Functional Testing

Non-Functional Testing focuses on the operational aspects of the software, rather than the features of the software e.g. testing how the software performs with multiple users in parallel (Smartbear, 2024a). Various types of this are covered below.

#### Performance Testing

#### Security Testing (Penetration)

#### Accessibility Testing

#### Destructive Testing

## Frameworks

Software Testing Frameworks are the toolsets a developer/team use to conduct their testing.

### Software

|  |  |  |  |
| --- | --- | --- | --- |
| Tool | Language | Types of Testing |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

* Selenium (Web Apps)
* Postman (System)
* JMeter (performance)

### Language Libraries

* JUnit (Java)
* NUnit (C#)
* Chai (JavaScript – Node)
* Pytest (python)

## Theory Reflections

# Applied Testing

## Scenarios – Test Plan

* System Testing (Postman)
* Integration Testing (test Delphi and TAC Integrations work)
* Performance (peak volumes and response times)
* Security (support from IT)

## Test Code created

# Conclusion

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