**APPRENTICESHIP COURSE WORK**

**ACCEPTANCE TESTING**

**INTRODUCTION:**

Within this project am discussing the current system for scan requests called and how it is done using **iClinical Manager (ICM)** software. The current system process that we have in place is inefficient and includes too many steps without any visibility and it is causing a lot of dissatisfaction among the clinicians, consultants, nurses, **Sonographers, Radiographers** and most importantly the patients. We need to streamline the process so that it is more efficient and creates more visibility. We are looking at improvements which will make life easier for the clinicians, and consultants who request scans and look at how we can carry the patient along in the journey. So, we have designed an in-house system called the **Radiology Acknowledgement System** (**RAS**) that sits within the **SeeEHR** platform and will replace the current system called **CDN Radiology Information System** (**CRIS)** and would help regulate and monitor scan requests better.

The system will be temporary until the big **Electronic Patient Records (EPR)** is acquired in the autumn of 2025. This will help clinicians and consultants search for patients using hospital/NHS numbers whenever they want to review or request scans, analyses, or examine scan results. The bigger EPR is **EPIC** but at this present, the Trust can't wait till that time specified, so we arranged to put this in-house system in place to help address the setbacks till next year.

**Radiology Acknowledgement System (RAS)** has been in the making for a long time now and going out and having various stakeholder engagement meetings. Roadshows to try and find out how we can help life and work easier for all the multiple stakeholders in terms of Scan requests, we realised that something was missing that needed to be corrected and make scan and imaging easy to manage. The pilot scheme is to be rolled out the week commencing **12/08/2024** and the first department would be **Maxillo Facial** which is the plastic surgery department, then **Ear Nose & Throat (ENT)** because they are next to each other and are the departments/service lines that were willing to give it a go.

As part of this project, I was required to do some user acceptance testing to try and fish out bugs that could stop the system from functioning to its full capacity and interrupt how stakeholders carry out tasks in the hospital. This can also hinder patient care and the experience regarding appointments, which are affected by the lack of speed and the slowing down of the system. I was required to be part of the testing team and support the testing phase in preparation for the final rollout.

**Importance of Acceptance Testing:** The main purpose of acceptance testing is to find errors, gaps or missing requirements compared to actual requirements. When software development projects are being done, there is a huge tendency for errors to occur in any phase of the life cycle. Only a few of them can go undetected, which is why it's important to carry out quality assurance to help address all the errors in the final code of the functionality and design.

Acceptance testing is very important to help identify any inconsistencies in the code early and fix them before the final product is delivered. This is why the following points are very important in testing:

* **Saving Money: -** software testing has a lot of benefits which include the cost-effectiveness of the project is one of the top reasons why companies test new systems. The testing of software is mainly to try and find bugs in the early phases, fixing them can help reduce the amount of money spent in the long run, which is why having the system testing done as you go along is very important.
* **Security: -** This is another crucial piece and is the most vulnerable and sensitive part of testing. The risk of users' information being stolen and sold or used for the benefit of financial demands, is the reason why it is important to demand a well-tested and more reliable system. As the system undergoes testing, the stakeholders and end users can rest assured that their details are in safe hands that they can rely on the finished product and the system is free from hackers' attacks and vulnerability.
* **Product Quality: -** For software to come to life, it is important that vigorous testing is carried out to determine its full functionalities and how well it works. This can help identify any bugs or defects in the system and fix these in the development phase of installation. Testing would then give room to calculate how many defects might still exist and analyse the quality of the software before going live.
* **Improve Customer/end-user Satisfaction: -** customers, end-users and stakeholders' satisfaction is always the end goal of all businesses, which is why continuous testing and measurement is very important before launching or going live. Systems that run without a glitch are more likely to result in smoother business operations.
* **Software Upgrades/Add-ons: -** The testing team can help the developers and engineers integrate new features and upgrades of functionalities into the existing systems because testing always accounts for continuous improvements. Our testing helps to ensure that the software meets the stakeholders, and product owner requirements for future integrations and evolutions. Implementing test cases to cater to specific scenarios, where upgrades can be performed at higher system performances, allowing developers to add new features as the system scales forward.

**Test Phase Identification:** The software testing lifecycle which is also referred to as STLC is a sequence of actions that is performed during the testing process of software to ensure that all the quality objectives are met. This can also include verification and validation.

1. **Unit Testing:** Unit testing can be referred to as a process of testing a unit, this can be the smallest piece of code that can be logically isolated in a bigger system. In most programming languages, that is a function, a subroutine, or a property. This can also be defined as a type of software testing that focuses on testing individual components of a software product. The “UNIT” in unit testing can be functions, procedures, methods, objects, or other entities in an application’s source code. Each development team decides what unit is most suitable for understanding and testing their systems such examples are object-oriented designs that tend to treat a class as a unit.

Unit testing relies on mock objects to stimulate other parts of code, or integrated systems, to ensure the test remains simple and predictable. The main goal of unit testing is to ensure that each unit of the software performs as intended and meets the expected requirements. The following steps are needed to carry out a successful unit testing:

* Planning and setting up the environment.
* Writing the test cases and scripts.
* Executing test cases using a testing framework.
* Analysing the results.

1. **System Testing:** System testing can be defined as the type of software testing that evaluates the overall functionalities and performance of complete and fully integrated software solutions. This can also be performed on a completely integrated system to evaluate the compliance of the system with corresponding requirements. System testing is performed by a testing team that sits independently of the development team and helps the qualities of the system impartially.

**![A diagram of a software testing process

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFiaGlzaGVrIFRpd2FyaQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADOTUAAJKSAAIAAAADOTUAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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(Geeksforgeeks, 2024)

1. **Integration Testing:** This is defined as the process of testing the interface between two (2) software units or modules. It focuses on determining how correct the interface would be while also exposing the faults in the interaction between all integrated units. Also, integrated testing is carried out once all the unit testing has been completed. Integration testing focuses on verifying the interactions and data exchange between different components or modules of a software application and identifying any problems or bugs that may arise when different components are combined and interact with each other. Integrated testing is also carried out immediately after unit testing is completed and before system testing, in turn, helps to identify and resolve any integration issues earlier in the development cycle, reducing the risk of more problems later on that may be costly.

**A diagram of a diagram

Description automatically generated with medium confidence**

(Geeksforgeeks, 2024)

1. **User Acceptance Testing (UAT):** User Acceptance Testing (UAT) is defined as the process of ensuring that the software meets the business requirements and is ready for final deployment by validating its functionalities in a real-world scenario. And allows the end-users to test the software to ensure it meets their needs and requirements and also operates perfectly as expected, helping to fix any bugs or issues before the final rollout. UAT is also good for quality assurance, as it helps to ensure the software is user-friendly, reliable, durable, rugged, and meets all the criteria it was built for.

The main reason why **UAT** is used in the software testing cycle is to help identify bugs in the software, systems, and even the network that may cause a problem for users. **User Acceptance Testing** plays a vital role in ensuring that the software can handle and perform well to the required standards and development specifications.

There are 6 types of User Acceptance Testing (UAT) which are listed below:

* Beta User Acceptance Testing
* Black Box Testing
* Operational Acceptance Testing (OAT)
* Contract Acceptance Testing (CAT)
* Regulation Acceptance Testing (RAT)
* Alpha User Acceptance Testing

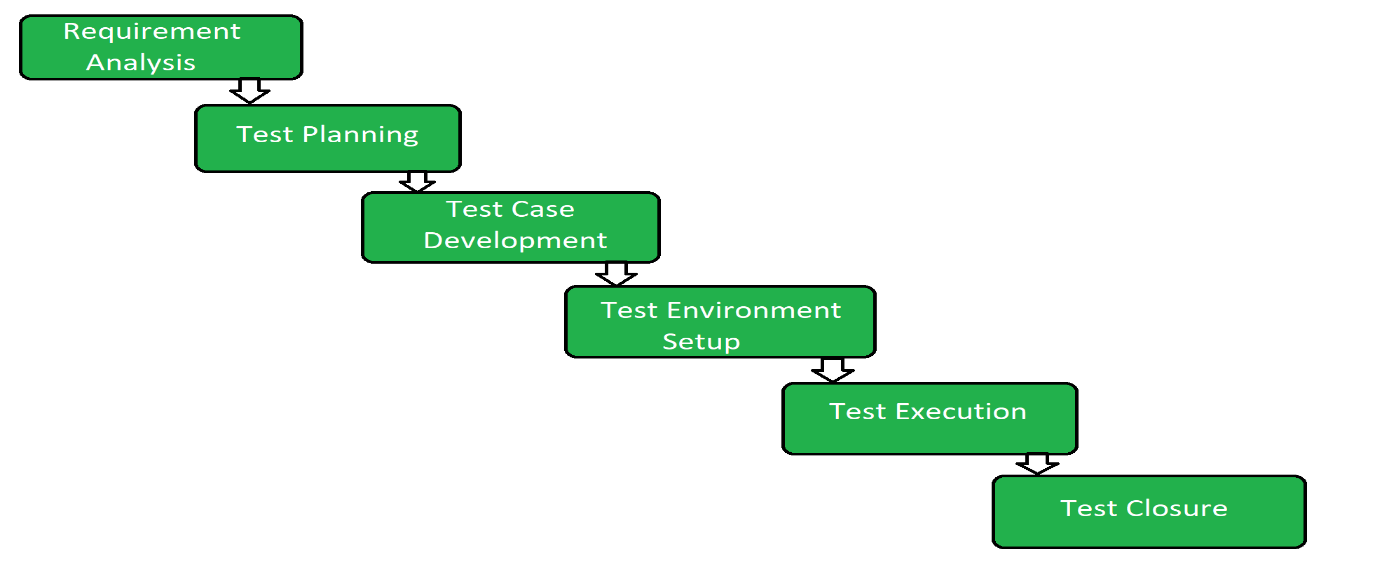
**A diagram of different types of acceptance testing

Description automatically generated**

(Geeksforgeeks, 2024)

The Software Testing Life Cycle (STLC) is a direct associate of or part of the Software Development Life Cycle (SDLC) which is a framework of 6 core principles:

* Requirement Analysis.
* Planning
* Engineering and Design.
* Software Development
* Testing
* Deployment.



(Geeksforgeeks, 2024)

**Business Analyst role within the Testing Lifecycle:** The Business Analyst is regarded as one of the major players in identifying business requirements and converting them into business solutions. Business and system analysts translate the features of solutions necessary for the customer into software requirements that are understandable to the development team.

* **Requirement analysis**: - The team of BAs/SAs play leading roles during requirement gathering and at the analysis stage, as well as in the design stage. The BAs and SAs also monitor the code development and follow the testing phase during bug-fixing as change agents in the project development team to fulfil the customer’s requirement.

In simple words, the Business analyst gets actively involved in some testing phases so that they can verify and clarify requirements. The business analyst would be available to answer any questions that the software team may have.

Though the main role of the business analyst is to be the requirement owner of a project, they also play a significant role in software testing. To make sure that the developed system can meet the business needs, and also gets involved in assisting test case development, review, execution of part of test cases and support all the various stakeholders during testing activities.

I played a vital role in gathering all the relevant information and requirements for this project, in terms of process map designs and process modelling. I was tasked with going out there to meet with various stakeholders and stockholders to discuss the project and how the project would be beneficial for the entire trust's day-to-day engagements with all the various service users and patients. I made sure I listened to all the various points raised and also put their concerns into consideration and feedback.

* **Planning: -** Every project is unique and is also temporary. The business process management, regulatory compliance and digital transformation projects that business analysts may play a huge role in all come with different goals, scopes, teams, timelines, budgets, dependencies and risk factors. Though many projects can follow similar methodologies, they can be tailored to meet project scope constraints while taking advantage of available resources and lessons learned from previous projects.

As a business Analyst, I come with a unique and diverse set of skills and extensive experiences.This involves good communication skills some good knowledge of stakeholders' engagement and experience-based business knowledge. In any project lifecycle, if the business analysis planning is bypassed, it would pose a very challenging prospect of understanding the scope of work various stakeholders' expectations and the level of required input from the business analysis for the project which in turn makes the process far more difficult and can result in unrealistic expectations by all involved in the requirement related activities.

I organised drop-in sessions and road shows for the different stakeholders to interact with each other and share ideas on their expectations and how they want to final product to look and feel. This in turn helped me gather all the needed information for the development team to work with. I made sure the fears and concerns of the stakeholders were put into consideration earlier in the planning stages so that it would not hinder the project deadline when it came to the testing phase and piloting stages.

A screenshot of a computer

Description automatically generated

**Meeting Invitation screenshot**

* **Engineering and Design: -** The business role of the business analyst helps bridge the gap between various stakeholders, the product owner and the development team which consists of the testing team. These also help to interpret the business requirements into understandable tasks or user stories to match the final product/ system with the expected final business value. This is where my expertise as a business analyst was required to generate reports that represent the operations of the product promptly. Also assessing the target end-users/ stakeholders while modelling the process to reflect and align with the needs of the service users.

I also Organised stakeholder engagement meetings and seminars to propose smart ideas and be open to contributions from all parties through discussions, allowing experts to share ideas and road maps to help me explain the project vision and the business needs to all parties involved. Having feedback from previous meetings and seminars also helped me review any changes and tailor my questions to any changes that may have occurred.

* **Software Development: -** Business analysis is growing rapidly in the marketplace place which makes it more interesting to get the business analyst involved in the entire process and is pivotal as the linchpin between IT and business domains and plays a crucial role in shepherding companies through the complexities of digital transformation. The contribution of a business analyst in the software development lifecycle helps clarify the requirements involved in managing backlog items, such as user stores, and meticulously detailing the expectations for the development team which also includes acceptance criteria. Managing backlog can help break features into digestible, prioritised segments is crucial for streamlining workflow efficiently. And I suggested This can be seen in the images below: -

A computer screen with a computer screen showing a chat window

Description automatically generated

**User environment testing**

A computer screen shot of a computer

Description automatically generated

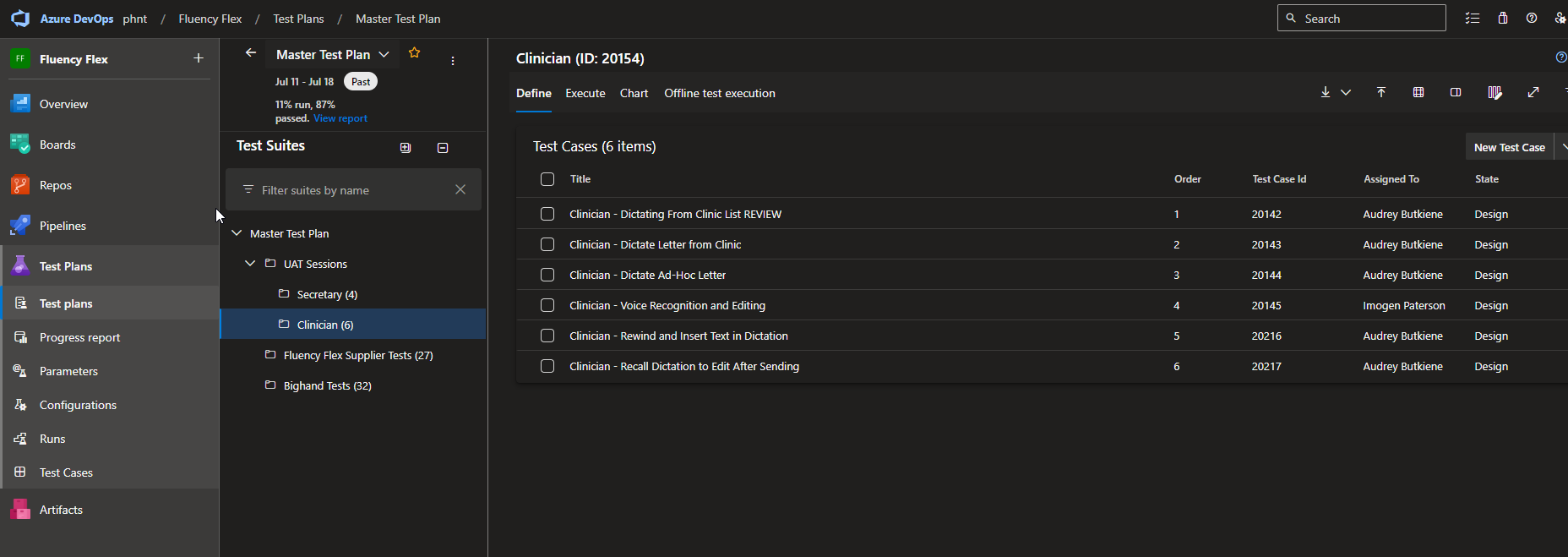
**User environment testing**

A business analyst also contributes to the project goal identification and pain point analysis by collaborating to discern overarching project objectives and pinpointing areas ripe for enhancement can form the bedrock of strategic decision-making. Also by striving to enhance benefits while minimizing implementation costs by scrutinising, refining, or even simplifying conceptualizations at the nascent stages is central to optimising project outcomes.

Effective requirement communication can help facilitate seamless comprehension within teams regarding task objectives and rationale is very paramount for cohesive execution. In this regard, I played a vital role in information gathering by going out to meet the stakeholders/stockholders to get their input and expectations and then presented my findings to the following team, software development team, testing team, Business Change Analyst, change analyst team and Clinical Support Officers so that we can discuss what is needed to complete the project from design to testing.

* **Testing: -** Testing can be referred to as executing a program or system to find defects. This is a concurrent lifecycle process of engineering, using and also maintaining test ware to measure and improve the quality of the software/product. The Business analyst can play a vital role by making sure the boundary conditions are met and protected in the process and see to it that the business rules are incorporated into the test cases while also assessing whether the testing phase meets the required validation process while also providing clarification on the requirements allocated to the components. The Business Analyst makes sure that the process flows are accurately represented in the test plans and also all the functional/non-functional requirements are not left out in the process by reviewing system cases prepared by the testing team.

During the testing phase, I met with various stakeholders such as Clinicians and Medical Secretaries to get them involved in the testing phase by creating an individual test environment for each of them so that they could try out the new system that we can collect the data and use it to monitor or address any gaps that may arise. As shown in the screenshot image below:-



**Azure DevOps Test Script for Clinician (ID:20154)**

A screenshot of a computer

Description automatically generated

**Azure DevOps Test Script for Secretary (ID:20155)**

The Azure Test plan comes with a very easy-to-use browser-based test management solution that provides all the capabilities required for planned manual testing, user acceptance testing, and exploratory testing, and also serves as a feedback-gathering tool for various stakeholders.

* **Deployment: -** The deployment stage is where the business analyst helps to make sure that there is a smooth transition of the new application/system from the development environment to live or rollout while making sure that all the necessary configurations, integrations and data migrations are executed in a well-structured manner. The Business analyst can ensure that the solution or final system meets the requirements and objectives stated in the project initialisation and full business case meeting. I played an important role in providing end-user support during the rollout by designing a well-structured training material that contains all the necessary steps to follow to get the best out of the new system during the initial rollout or piloting period while also gathering feedback from the various Stakeholders/stockholders and end users so that we can understand where the system needs improvement and also document some lessons learned so that when we meet as a wider team I can present my findings. I also participate in post-deployment reviews with the project team, training team, and change Analyst to evaluate the overall success of the project rollout and identify any necessary adjustments if needed.

The way NHS Trust manage and facilitates Business acceptance of change is to make sure we incorporate our core values into the change process which is: -

**Put People First: -** I tend to follow the trust values which is to put patients and people first by making sure I carry the end users and service users along whenever we are looking to effect change in the way we operate because people are the ones who can fuel and sustain the momentum for change. The change initiative can fail if I don’t get staff, and service users involved and make sure they understand and believe in the process or are engaged in the change process.

This in turn makes change easier when the employees are involved in the change process, and we accomplish this through proactive communication strategies that create the desire for change across University Hospitals Plymouth NHS Trust. We carry out **road shows, seminars and, drop-in sessions** for staff members to ask questions and air their concerns about the new system and ask questions. We make sure there is a **test simulator (Dummy page)** for them to play around with and feel/ experience the change before the final rollout.

**Empower Staff Members Through Communication: -** Communication is very vital and also an effective way to manage change within the Trust and the way the communication is carried out can provide clarity to the stakeholders, staff members, service users and everyone who would use the new system for why we need the change and mobilise employees with a sense of urgency for change. We carry out **surveys, small focus groups and formal feedback forms** so that the stakeholders, and staff members feel valued and more likely to embrace change by participating in making sure it happens without any pushbacks or setbacks.

I know it is not easy to try and sell change to staff members or stakeholders/stockholders who are used to one way or their one way of working, so we try to give them the platform to express their concerns and worries about the new system and make them feel valued and appreciated to be able to carry them along and get their opinions on the new system by making change compelling and exciting for them through purposeful, clear, precise and consistent communication. This strategy helps provide context for them to understand the **“why, what and so what”** of the change that is about to be implemented. This also helps answer most of the important questions that stakeholders/stockholders and staff members are thinking during this time **“How will this impact my work; what does this mean to me?”** in some cases with a clearer understanding of the change they can also be of assistance in carrying out the changes that are needed.

**Ignoring Resistance to Change: -** We pay most attention to the way change preparation is accepted across the Trust to determine the high and low points of momentum across the stakeholders/stockholders and staff members to help leverage the points in time. During the high points we as a team would celebrate our wins and this in turn fuels the momentum to keep pushing and breaking the barriers. Sometimes it doesn’t go as planned in terms of acceptance, which we refer to as low points, then we go back to the drawing board and reset our communication strategies by listening to stakeholders/stockholders and staff members' input to help build trust and support for the new system.

Resisting change can be very bad and poisonous to the Trust’s journey through transformation and it is much easier to manage and counter when it is identified earlier on in the transformation/change journey. When am out and about for stakeholder/staff engagements I pay attention to the tone of their voice to try and detect resistance which can be their body language, withholding information and unwillingness to engage with me when I ask questions.

**Supporting User Acceptance Testing (UAT): -** Within my trust, I am indirectly involved in new system testing that occurs whenever we introduce new software systems across all the sites by being able to sit with the software development team (Soft Dev) to try and understand what happens whenever testing is carried out on a new system, and I can clearly say that the Soft Dev team uses the Microsoft Azure DevOps Server 2022 platform for system testing whenever there is testing to be carried out. The Azure Tests Plans provide rich and powerful tools that the test team members can use to drive quality and enhance collaboration during the development process.

My involvement in the User Acceptance Testing (UAT) for the **Radiology Acknowledgement System** (**RAS**) was to review the acceptance criteria by creating a training environment for users such as Clinicians, Secretaries and radiographers to have a play-around so that we could analyse the data that would help us understand where the system needs to be improved upon.

**Acceptance Criteria:** - My role is crucial in understanding the needs and analysing the requirements by translating them into acceptance criteria. My team bridges the gap between stakeholders/stockholders and the development team. And needed to test how long it would take for Clinicians and secretaries to pick up messages sent through by Radiographers and act upon them depending on the urgency of the messages we used a traffic light system to identify it urgency. I then created the test script to help understand the system better, the initial test failed, and this was shared with the entire team to help understand where the problem was coming from so that we could work on improving the faults. After which the system was retested. This is shown in the images displayed below: -

A screenshot of a computer

Description automatically generated

**Consultant/Clinical Staff Log-in Page**

A screenshot of a computer

Description automatically generated

**Azure DevOps Test Script for Clinician (ID:20154)**

I am part of a team that tends to use user stories to track the activities of the system users and stakeholders across the platform of the new system and follow strict and mandatory to be able to get how the system is used for different purposes by the stakeholders and staff members alike. As a consultant and clinical staff, we want the first things they see when they login to be the following: -

* **Patient Details** – In this section, they should be able to see the navigation bar with links that can take them to various pages such as **patient details** that can consist of DOB, Address and contact details as shown in the image below:
* **Patient Medical/Treatment History: -** In this section the Clinical staff should be able to look and view all the patient's past appointments and treatments that were carried out on the patient. And be able to see the dates of previous appointments and treatments that individual patients had undergone when they were last admitted to the hospital.

**Defect Management Process/Procedure:** If things do not go according to plan in terms of the system execution or rollout, that is encountering bugs during the testing phase, the testing team would execute the test script and record any bugs that are preventing it from running perfectly well and then review and assign it to be investigated before reproduction of the bug.

I get involved by collaborating with the testers, developers, and all the various stakeholders to ensure that proper documentation, tracking, and resolving of the defects are carried out accordingly. I will also make sure that effective communication is established between all the various teams and that the stakeholders are duly informed about the encountered defects and the process being followed to address them.

The project team which comprises Software Development, Quality Assurance, Test Engineers, and Business Analysts would meet to discuss the bug that has prevented the system from running smoothly and then I would look to see where the fault is coming from by revisiting all the various stakeholders to understand how I can address their concerns. And look at ways to improve the application while addressing the bug that has been detected by striving to optimise it while also based on the observation and analysis generated from the test run I and the team would make specific tweaks to the workflow to better categorise the found bugs and share it with the entire team that would allow us to proper describe the bug in a structured manner in terms of level of severity(High-Medium-Low) impact to the system performance. This would in turn help me and the team to determine the structured reporting guidelines step by step to try and reproduce the bugs and their full details by providing screenshots if needed.

**Conclusion:**

In conclusion, during the investigation and information gathering, I ***learnt***that in most cases the stakeholders/ stockholders are not sure what they want the new system to address until the current state of the business model and processes is designed for them to see the visuals for them to be able to make corrections and amendments and also decide on what to include in the future state when designing the process model/future state. Even with this, I still learnt that “**NOT**” all information gathered was allowed on the future state/desired situation because the stakeholders kept moving the goal post and amending all the information that was agreed upon during the brainstorming stages of the process. During this time frame ***What went well*** was the willingness of the chosen departments to be used as a pilot rollout, and the happiness/ joy that was visible on their faces gave me and the team the confidence that all would go well during the pilot scheme and also we will be on ground to monitor the effectiveness of the rollout and take some feedbacks for future reference when the time comes for rollout across the whole trust. ***What I would do differently*** in this case would be to convince more service lines and Managers to sign up for the pilot scheme so that when the time comes for the final rollout there won't be too much work or departments to cover in the limited time frame that we have. I know it is not easy to convince more Managers to help speed up the rollout, but at the same time, these can help us to understand and prepare better next time.

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