Task 1 - Mindset / Planning

Challenges

1. New features will have to be tested on both the old and new systems.
2. Legacy system should not be broken.
3. Maintaining existing test automation suits.
4. Understanding existing test automation, goals, deadlines, and the critical features of both systems.

Plan of Action

1. Collect all requirement information: meetings with team and stakeholders, reading documentation to understand goals, key features, requirements. Get an overview of the new system, focusing on the key functionalities to be delivered in the upcoming sprint(s). Get a roadmap.
2. Quick audit of the existing automation suite for the legacy system. Check what can be reused.
3. Evaluate and choose test automation tools.
4. Plan testing activities based on criterias from previous steps.
5. Execute testing activities: allocate time for legacy system maintenance as a portion smaller of my workload, ensuring the bulk of my effort is focused on building and scaling automation for the new system.

Ensure testing/ releases remain efficient?

1. All new features must be tested on both systems. But on the old system only manually. We do not write new automation tests for old system. If old automated tests (not critical) are failing or flaky we exclude them from the suit.
2. Every new feature in the new system should be covered with automated tests of all the relevant types of tests (unit/integration etc).
3. Testing for the old system should be performed during the same sprint because customers use it and it is important not to break anything. Automation for the new system can be 1 sprint behind.
4. During the process maintain clear communication about what is automated, what is being tested manually, and any risks identified.

Balance between automation for the new & legacy system?

Task is to gradually reduce the test suite for the old system. Do not invest more in supporting the old system, do not write new tests there, do not spend much time on support.
High-risk areas in the legacy system should be maintained. We should disable non-essential tests that are consistently failing. This will reduce maintenance time.
But we invest time in covering the new system, because for us, covering the new system is becoming more relevant. New features should be automated in the new system.