**Case Study:**

Your company is going to develop a new small **project for “Students Management System” this is desktop application for small schools to manage all students informations, activities , scores , attendance and medical records.**

After a discussion meeting between the testing Manager, Product manager and development manager they have agreed on:

1. The company will used **scrum methodology**, as the customer is not experienced and the requirement is not solid enough and changes frequency is high. **So the testing is performed in each sprint, and the testing team works closely with the development team and customer to ensure that the software product is of high quality. The iteration duration is two weeks to early feedback from customer and early corrective action.**
2. Initial test plan will cover the following features:

* Student information screen
* Student attendance
* Student Results screen. And any other features are out of test scope

1. Only functional test and usability test will be performed, **the objective of testing is to ensure that the software meets the functional and non-functional. Requirements specified in the project documentation.**
2. Testing will be applied for **Unit, integration and system levels.**
3. As the developer team will be under pressure and the testing team has not enough technical experience **a Black box technique will be used** and only **manual test** will be achieved.
4. As company strategies “Azure devOps” Testing management tool will be used
5. Environmental requirements for software are:

* Windows XP or above version , NET framework 4.7.2

In addition hardware requirements are:

* Processor: Minimum 1 GHz; Hard Drive: Minimum 32 GB , Memory (RAM): Minimum 1 GB

1. Testing team and other engaged staff in testing process are:

* **Scrum Master:** “Ibrahim Ali” and his responsibilities are:
* Contact person between different teams
* Project schedule
* **Product Owner:** “Jana Ali” and her responsibilities are:
* Responsible for the project's outcome
* Specify test and acceptance criteria and verify these using the product increment.
* **Testing Team Lead:** “Wael Shalaby” and his responsibilities are:
* Coordinator with different teams to resolve issues/problems
* Report progress
* Review and approve test cases
* **Testers:** ”Islam Sadek”, “Ashraf Mohammed” and their responsibilities are:
* Write test case
* Run test
* Bug report

1. Initial Test Deliverables / Millstone are

* Review Requirements backlog , duration 1 day start date 18/4/2023
* Create initial test estimates, duration 1 day start date 19/4/2023
* Test Cases for iteration #1 , duration 2 days start date 20/4/2023
* Bug reports for iteration#1, duration 2 days start date 22/4/2023

1. **A test plan should be documented to define the testing approach, resources, and schedule for testing the software.** The Review and approvals are the responsibilities of test manager “Mohammed Reda” and Product owner “Jana Ali”.