**STTTEK TASK Q4 ISSUE:** Our company has changed the concept. Now we will produce vending machines (from chocolate, water, soda, biscuits). The vending machine is ready, and we will present it to the customer tomorrow. What kind of testing process would you follow?

**SOLUTION:**

Before present vending machine to the customer **User Acceptance Testing (UAT)** should be performed.

**Aim of UAT:**

UAT ensures that the software system is working as per the business requirements.

**Objectives of UAT**

* To confirm that the software product can perform all the business functions.
* To confirm that the software product is usable from the end-user’s perspective.
* To certify that the software product is ready to move to production.

**Procedures of UAT:**

**1. Planning**

* The list of business requirement to be tested is prepared.
* Defining the acceptance criteria.
* Select the testing team.
* Prepare the test data. The test data should cover all the software’s functional scenarios in real-world usage.
* Prepare a UAT test plan. UAT test plan is prepared for the test execution.

**2. Design**

* Design the test. We use the information collected in the planning phase to design the tests.

**3. Execution**

* Execute the test using the test data and document the results. Defects found in the system are resolved and re-tested.

**4. Confirmation of requirement**

* Sign-off: This states that the software product meets the business requirements and is ready for production. The overall UAT process’s deliverables are Test Plan, UAT scenarios, test cases, test results, and defect log.

**User Acceptance Test for Vending Machine**

1. Connections (electrical, internet) of machine is checked

Vending machine should connect electricity and internet properly, any warning light or message is not seen

1. Dimension of machine is checked,

The dimensions of the machine should be compatible with the SRS document, release part of machine is enough dimension for all variety of product that bought can easily reach to customer, on the other hand customer should not reach to the product without paid

1. Function of machine works properly

It should be checked whether the functions of the vending machines are working properly. All devices such as all lighting, pos machine, product selection section should work properly.

1. Try to shake the machine

Vending machine should not be shake easily, machine should be very staple, any customer should not reach any product freely by shaking or some other way that used force

1. Try to buy with coin

The customer should purchase the product with coins, the machine should be able to give the change correctly if needed. Product purchases are made with coins of different values. It is checked that the coins are recognized correctly by the machine.

It is checked that there is no fake, coin purchase. In addition, it is checked that there are no transactions with coins belonging to different currencies.

1. Try to buy with credit card

The customer should purchase the product with credit card, also customer should be able to use visa, master card, American express.

1. Try to buy with banknotes

The customer should purchase the product with banknotes, the machine should be able to give the change correctly if needed. Product purchases should be able to made with banknotes of different values. It is checked that the banknotes are recognized correctly by the machine.

It is checked that there is no fake, banknotes purchase. In addition, it is checked that there are no transactions with banknotes belonging to different currencies.