**Q. Prepare a test strategy and the test plan for the given application (Internet based DTS)**

**🡪Test Strategy:**

The following are the steps considered for test strategy:

**1) Assess Testability** – All the sub factors under this is been scaled in range 0-5

|  |  |  |
| --- | --- | --- |
| **SLNO** | **CRITERIA** | **RATE** |
| 1 | Operability | 4 |
| 2 | Controllability | 5 |
| 3 | Observability | 5 |
| 4 | Simplicity | 3 |
| 5 | Understandability | 3 |
| 6 | Suitability | 3 |
| 7 | Stability | 2 |

**2) Assess test factors** – Factors considered are

a) Correctness

b) Authorization

c) Continuity of Processing

d) Access Control

e) Reliability

f) Performance

g) Access Control

h) Compatibility

**3) Identifying the lifecycle stages of the above factor in levels of testing**

a) Authorization: Integrating Testing

b) Correctness: Integration Testing

c) Continuity of processing: Post UAT

d) Access Control: System testing

e) Reliability: Comes in all product development (Production UAT)

f) Performance: System testing

g) Integrity(security): System Testing

**4) Assess drivers that would influence testing:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SLNO** | **FACTORS** | **TYPE OF TESTING** | **WHO DOES IT** | **VALIDATION/VERIFICATION** |
| 1 | Authorization | Integrating Testing | Individual tester(quality analyst) | Validation/Black box testing |
| 2 | Correctness | Integration Testing | Individual tester(quality analyst) | Validation/Black box testing/dynamic |
| 3 | Continuity of processing | Post User acceptance testing | Client/Management | Validation/Black box testing |
| 4 | Access Control | System testing | Tester(Training) | Verification/White box testing |
| 5 | Reliability | Production UAT | Client/Management | Validation/Black box testing |
| 6 | Performance | System testing | Tester | Verification/White box testing |
| 7 | Integrity | System Testing | Tester(Training) | Verification/White box testing |

🡪**Test plan**: This is created by Test lead/Senior Tester

The template of the test plan contains:

1) Test Item - Internet Based DTS (Name of application)

2) Software risk issues - At security level, performance level, Testing at browser level (3rd party tool called Browser stack)

3) Features to be tested - Register User, Customer, Admin functions, Manager and member

4) Features not to be tested - New version not to be tested (because that is not the part of the scope)

5) Approach: White box and black box testing (It contains code and UI)

6) Test Deliverables - Source code, Test execution, Test plan, Test case, Test scenario, defect report, test report

7) Item pass/Fail criteria - If 4 minor bugs and 1 major bug are found with no critical/show stopper case then we consider the application as pass criteria

8) Suspension and resumption criteria – Suspension as in how stoppers or non availability of resource in application causes it.

Resumption is when this is resolved or continuation

9) Responsibility - Project manager, test lead, tester, customers

10) Staffing and training need - how many tester are required/which all the area you need training

11) Schedule - Time to complete the work (for agile it takes 2 weeks)