STLC ---- 6/7

Process to perform the test for application.

Requirement Analysis ------🡪 RS [m]

/ SRS/FS

Planning -------🡪 Test Plan [m]

System Testing -🡪 System Test Plan

Integration --🡪 Integration Test Plan

Unit Testing -🡪 Unit Test Plan

Acceptance Testing --🡪 Acceptance Test Plan

Test Environment ---🡪 System Software / Hardware Requirements Set up ----

Keeping the test bed ready.

Test Design ----🡪

Test Scenarios

Test case ---🡪 Expected Result

Test Data

Test Execution ---

Actual result -------- manual ---- Executing the test cases.

Executing script ----- Automation

Defect Tracking ----

Logging the defects

Types of Testing

* Static Testing ---🡪 Verification -🡪 Documents reviews by following review templates-🡪 Review comments and changes request
* Dynamic Testing --🡪 Validation

Levels of Testing :

**Unit Testing**

* **White Box Testing**
* **Code testing**
* **Test consultant must have access to the application code to test.**
* **Developers**
* **Development Environment**
* **Approach :**

1. **Code Coverage ------**
2. **Branch Coverage**
3. **Path Coverage**
4. **Condition Coverage**
5. **Loop coverage**
6. **Class coverage**

* **Unit test cases – Junit**

**Integration Testing :**

**Top Down ---- HLD-🡪 LL**

**Bottom Up --🡪LLD---HLD**

**Critical Part First --🡪**

**25 modules**

**25 days --- Deploy in production env**

**Domain Expert -🡪 Identify the critical modules to test---- 17/15/10**

**Developers**

**System Testing :**

**AUT --- System Testing**

**System Functional Testing [ Scope]**

**By verification & validation ----- defects**

**System Non Functional Testing 1000**

* **Load testing ---- server ----- 999**
* **Stress Testing ----1010,1020,1030----System will crash**
* **Usability Testing**
* **Interoperability testing ----**
* **Security Testing----**

**Big Bang**

**Test Plan**

**Requirement Doc**

**Test Scenario**

**Test case**

**Test case execution**

**Defect Report**

**RTM**

**Shift Left Testing ----- Testing early ---------**

**Shift right Testing ----- Testing from the last phase ---**

**Test the deployed app in testing env**

**Test the application directly in production environment**

**Testing Types:**

**Smoke Testing**

**Sanity Testing**

**Regression Testing**

**Ad hock Testing**

**Alpha testing ---- UAT ---- Testing -----**

**Beta Testing--- UAT--- Production Environment--- Customers + testing eng**

o Psychology of Testing

* **Entertain the negative approach to perform negative testing .**
* **Testing with invalid data**
* **We need to break the application to enhance the quality**