**Acko Website**

**Test Strategy Document**

**Revision History**

| **Date** | **Version** | **Author** | **Description** |
| --- | --- | --- | --- |
| 06/08/2025 | 1.0 | Sakshi Jadhav | Initial Draft |

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**1. Scope**

This document outlines the test strategy for the Acko website: <https://www.acko.com/>. It includes:

* Defined timelines for different testing phases: Unit, Integration, System, and UAT
* Review and approval workflow for the document
* Roles and responsibilities of stakeholders

**Stakeholders**

* **Reviewed by**: QA Lead, Product Owner
* **Approved by**: Test Manager, Project Manager

**2.Requirements Overview**

**Functional Requirements:**

* **User Registration/Login**
* **Car/Bike Insurance Purchase**
* **Policy Renewal & Management**
* **Claim Filing Process**
* **Premium Calculator**
* **Customer Dashboard with Policies**
* **Payment Gateway Integration**
* **Notifications & Reminders (Email/SMS)**

**3. Test Approach**

The testing process will follow the **Agile methodology**, with test activities embedded in sprint cycles. The approach ensures early and continuous testing through short iterations.

**Testing Levels**:

* Unit Testing – by developers
* Integration Testing – validate interactions between modules
* System Testing – validate full application workflows
* UAT – conducted by business users

**Types of Testing**:

* Functional Testing
* Regression Testing
* Smoke/Sanity Testing
* UI/UX Testing
* Performance Testing (Load/Stress)
* Security Testing
* Cross-browser and device Compatibility Testing

**Defect Lifecycle**:

* Bug Reporting → Triage → Fixing → Re-testing → Closure

**Automation Strategy**:

* Automation tools: Selenium + TestNG
* Regression and smoke test suites automated
* Triggered via CI/CD (Jenkins)

**4. Sprint Planning (Agile)**

To align testing with Agile delivery, the QA team participates in every sprint as follows:

* **Sprint Planning**:
  + QA reviews user stories during grooming
  + Estimation of QA effort per story
  + Define acceptance criteria with Product Owner
* **Sprint Execution**:
  + Write & execute test cases as stories are developed
  + Conduct exploratory and functional testing
  + Perform daily sanity checks on new builds
  + Log and triage bugs during standups
* **Sprint Closure**:
  + Regression testing on completed features
  + Sprint review: demo features and test outcomes
  + Retrospective: discuss QA blockers/improvements
* **Artifacts Maintained**:
  + Sprint test plans
  + Daily test reports
  + Sprint-wise defect log

**5. Test Environment**

**Environments Used**:

* Development
* QA/Staging
* UAT
* Production

**Requirements**:

* Web/App servers, DB servers, load balancer
* Browser testing: Chrome, Firefox, Safari, Edge (latest 2 versions)
* Devices: Android & iOS (real + emulators)

**Test Data Management**:

* Regular backups
* Restore scripts for QA/UAT
* Test data anonymization for privacy compliance

**6. Testing Tools**

| **Category** | **Tool** |
| --- | --- |
| Test Management | Jira / TestRail |
| Automation | Selenium, TestNG |
| API Testing | Postman |
| Performance Testing | Apache JMeter |
| Security Testing | OWASP ZAP |
| CI/CD Integration | Jenkins |
| Cross-browser Testing | BrowserStack |

**Tool Strategy**:

* Use open-source tools where possible
* Minimum 5 user licenses for commercial tools

**7. Release Control**

* Maintain a version-controlled **Release Calendar**
* Track features, fixes, and known issues per release
* Run full **Regression Suite** before any major deployment
* Smoke tests executed before **UAT** and **Production** deployments
* Version Control: Git

**8. Risk Analysis**

| **Risk** | **Impact** | **Mitigation** | **Contingency** |
| --- | --- | --- | --- |
| Environment Downtime | High | Maintain backup environments | Reschedule test cycle |
| Incomplete Requirements | Medium | Early QA involvement in story pipelines | Adjust scope during sprint |
| Delay in Build Deployment | High | Regular sync with Dev & CI pipelines | Buffer time in QA schedule |
| Test Data Unavailability | Medium | Automate test data creation | Use manual entry temporarily |

**9. Review and Approvals**

The document will be reviewed and signed off by:

| **Name** | **Role** | **Date** | **Comments** |
| --- | --- | --- | --- |
| QA Lead | Reviewer | dd/mm/yyyy | Reviewed |
| Project Manager | Approver | dd/mm/yyyy | Approved |
| Business Owner | Approver | dd/mm/yyyy | Approved |