

Functional Testing of an online grocery application



Client Overview

- O2O e-grocery platform connecting kirana stores and customers using a hyperlocal model



Business Requirements

- The client is an innovator in online and offline food and grocery segment
- They cater to customer demands by employing strategic business models and logistics. Their application features engaging features, experimental discount methods and typical ecommerce life cycle functionality
- Understand the grocery business model and test the application for its Functionality, End-to-end workflow / user navigations, perform UI Testing and Integration Testing



Our Solutions

- Conducted a due diligence of the application to verify the application's response to different browsers
- Performed smoke tests and verified requirement mapping to UI and functionality
- Sanity tests to ensure most critical functionality is working and uncover show stopping bugs
- Verified functionality of Landing pages, User search dynamics, carousels, signup / login flow, account management features
- Verified end to end workflows of product grids, cart management and check out features
- Compatibility testing across browsers and OS
- Verified functionality of Landing pages, User search dynamics, carousels, signup / login flow, account management features
- Tested payment module under various payment methods, pre and post condition validations
- Performed integration testing of all the module functions in a typical ecommerce workflow
- Identified and executed negative scenarios to test the resistance or error handling capability of the application
- Performed retests (post defect fixes) and regression tests



QA Process

- Streamlined QA process, Test templates and documentation to measure Test Coverage and effectiveness
- Comprehensive Defect Management with criteria definition – defect status, priority and severity, resolution status
- Conducted Defect Triage to prioritize defects
- Test Deliverables : Test Strategy, Test Scenarios and Test Cases, Test Execution Report, Defect Metrics, Coverage Metrics, Test Summary Report, Release Notes



Engagement

- 1 Test Engineer
1 Test Lead / Project Manager
- 4 Months



Business Impact

- Competitor analysis and comparison report for different aspects of grocery application – comparison of standard and acceptable response times, user friendly messages / tool tips / help text, navigation dynamics etc.
- Supported 3 releases with a total of 400 test cases for Release 1, over 200 test cases during defect retesting in Release 2 and additional 100 test cases for new features in Release 3
- Reported ~300 issues with over 50 blocker issues
- 100% Test coverage for all functionality across browsers
- Test Case categorization for Test Automation



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