

Polling App - Polling App - Master Test Plan

- [Introduction](#)
- [Terms/Acronyms](#)
- [Testing Scope](#)
 - [In Scope](#)
 - [Out of Scope](#)
 - [Roles and Responsibilities](#)
- [Test Strategy](#)
 - [Testing Types](#)
 - [Test Approach](#)
 - [Supported Platforms](#)
 - [Entry Criteria](#)
 - [Exit Criteria](#)
 - [Test Management](#)
 - [Defect Management](#)
 - [Test Deliverable](#)
- [Resource and Environment Needs](#)
 - [Testing Environment](#)
 - [Testing Tools](#)
 - [Training Needs](#)
- [Risks](#)
- [References](#)

Introduction

AUT is a web-based application for creating and voting in online polls.

The purpose of this test plan document to give overview of testing approach and quality objectives on the project.

Terms/Acronyms

Term	Definition
STP	Software Test Plan
AUT	Application Under Test
API	Application Program Interface
RC	Release Candidate
QAE	Quality Assurance Engineer
PO	Product Owner
TMS	Test Management System

Testing Scope

In Scope

Following features are part of testing scope for this project:

- User(admin) authentication
- User(admin) signup
- Log out
- Creating and viewing polls
- Voting and review results
- User profile

Out of Scope

Following features are out of scope of testing for this project:

- deletion of polls
- assigning role to user

These features are out of scope as they will not be provided as end user functionalities.

Roles and Responsibilities

Role	Responsibility
QA Manager	<ul style="list-style-type: none"> ▪ defines and manages testing process ▪ manages testing resources ▪ identifies and communicates risks with stakeholders
QAE	<ul style="list-style-type: none"> ▪ analyses requirement ▪ writes, reviews and maintains test documentation ▪ verifies and validates AUT against requirements (functional and non-functional) ▪ logs defects and prepare reports
PO	<ul style="list-style-type: none"> ▪ evaluates/accepts each new user story after completion ▪ reviews testing documentation ▪ participates in defect triage

Test Strategy

Testing Types

Following types of testing will be performed on the AUT:

- functional testing
- regression testing
- performance testing
- visual testing
- compatibility testing (cross-browser)

Test Approach

Testing approach follows standard Agile testing practices, with following specifics:

- For first major release, focus of testing will be ensuring coverage of functional requirements (see In scope). Testing approach will rely on combination of manual test execution and exploratory testing
- For second major release, focus of testing will be non-functional requirements coverage and automating regression tests for the AUT .

Supported Platforms

Compatibility testing should cover following support matrix:

Platform/Browser	Browser version
Windows OS/Chrome	latest
Windows OS/Firefox	latest
Android OS/Chrome	latest
iOS/Chrome	latest

Entry Criteria

- Testing activities on the project start as soon as requirements are approved.

- For Story-level entry criteria - see [Definition of Ready](#)

Exit Criteria

- Release is considered "test completed" when:
 - release scope is complete
 - there are no unresolved defects with severity 'Major' and above
 - regression testing is completed on the RC
- For Story-level exit criteria - see [Definition of Done](#)

Test Management

- All test cases are written and maintained in TMS
- Test cases have following mandatory attributes:
 - Priority (High, Medium, Low)
 - Reference (trace-back to requirement/defect in JIRA this test refers to)
- Each test case is subject to review by PO and at least one more team member

Defect Management

- All defects are logged in JIRA
- All defects have following mandatory attributes:
 - Assignee - PO
 - Severity
 - Priority
 - Affects version

Test Deliverable

- Master Test Plan (this document)
 - Test Cases
 - Test Scripts
 - Defect
 - Test Status Report
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Resource and Environment Needs

Testing Environment

Resources	Requirements
Server	Linux Ubuntu Server 18.04 or higher, MySQL 5.x, Apache 2 Web Server, Java 10, npm, Angular-CLI
Network	Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s
Hardware	1 server machine - 8GB RAM, CPU 2.4GHz

Testing Tools

Tool	Purpose
TestRail	TMS
Postman	REST API testing
Jmeter	Performance testing
Selenium IDE	Browser automation testing

Training Needs

Following training needs have been identified for the successful completion of test objectives on the project:

- Testing techniques
- RDBMS and SQL
- Web-service testing
- Automation testing with Selenium

- Performance testing

Risks

Risk	Risk Type	Mitigation
Insufficient knowledge on performance testing within the team - unidentified performance risks	Product	Training for the team; load test results gathered before 2nd major release
Insufficient time for regression testing - regression defects may leak to production environment	Product	Full automation of regression test scope completed for 2nd major release
Lack of backup test environment - possible failover may block testing activities and cause project delays	Project	Data backup; potential delays communicated with stakeholders

References

[Polling App - Polling App - Software Requirement Specification](#)

[Polling App - Polling App - Technical Design Document](#)

[Definition of Ready](#)

[Definition of Done](#)