***“BEERTAG” TEST PLAN***

*Velislav Petev*

**Test Plan for “BeerTag”**

**1. Introduction**

This document outlines the test plan for the beer social network application. The application allows users to browse beers, create new beer entries. Testing will ensure the app meets functional and non-functional requirements, providing a seamless user experience.

**2. Objectives and Tasks**

**2.1 Objectives:**

* Validate the core functionalities of browsing and creating beer entries.
* Ensure a smooth and engaging user experience.
* Identify and resolve any functional, UI, or performance issues.

**2.2 Tasks:**

* **Test Documentation:** Prepare a comprehensive test plan, test cases, and test data.
* **Testing Activities:** Perform functional and UI testing for features like beer browsing, beer creation, user interactions, and social engagement.
* **Test Execution:** Execute manual and automated tests, monitoring for deviations from expected outcomes.
* **Post-Testing Activities:** Analyze test results and produce detailed reports.
* **Documentation Maintenance:** Update documentation as the application evolves.
* **Test Closure:** Finalize reports and conclude testing activities.

**3. Scope of Testing**

**Functional Testing:**

* User Authentication: Registration, Login, and Logout.
* Beer Management: Creation, Update, Delete, and Search functionalities.

**Non-Functional Testing:**

* **Performance Testing:** Evaluate app responsiveness under varying loads.
* **Compatibility Testing:** Ensure the app works seamlessly on different devices and browsers.

**4. Hardware and Environment Requirements**

* **Hardware:** Laptop/Desktop with a minimum of 8GB RAM.
* **Software Tools:**
  + Browsers: Chrome, Firefox, Edge for cross-browser testing.
  + Selenium WebDriver: For automated UI testing.
  + Postman: For API testing.
  + JIRA: For tracking bugs and tasks.
  + IntelliJ IDEA: For scripting and test development.
  + MySQL: For backend testing and data validation.

**5. Test Schedule**

* **Week 1:** Develop the test plan and create test cases.
* **Week 2:** Conduct manual testing for browsing and beer creation functionalities.
* **Week 3:** Develop automation scripts for key features.
* **Week 4:** Perform API testing and generate preliminary reports.
* **Week 5:** Finalize the test report and wrap up testing.

**6. Resources/Roles & Responsibilities**

* **Tester:** Velislav Petev  
  Tasks include test case creation, manual and automated testing, defect reporting, and documentation.

**7. Risks and Assumptions**

**Risks:**

* Insufficient time for comprehensive test execution.
* Unstable testing environment or incomplete feature set.

**Assumptions:**

* All functional and non-functional requirements are well-defined and approved.
* The test environment is stable and equipped with test data.

**8. Entry Criteria**

* Approved test plan and cases.
* Prepared test data and environment.
* Functional modules ready for testing.

**9. Exit Criteria**

* All high-priority test cases executed with a "pass" status.
* No critical defects remain unresolved.
* Comprehensive test reports finalized.