**JUnit Project**

**Goal**

Build a test automation framework for **CodeWars** (Coding web platform application). The automation framework is focused on testing the essential features of the platform. The platform application will be tested across different browsers (namely Mozilla firefox, Google Chrome and Microsoft Edge) under varied platforms like Windows, Linux etc.

**Requirements**

The tests contained in this framework are categorized based on priorities. P1 indicates the highest priority whereas P3 indicates the lowest priority.

* Sign in & Sign out (P1)
* Load Katas (P1)
* Select Languages (P1)
* Select Status (P1)
* Select Kyu (P1)
* Select a Kata to perform (P1)
* Generate a code template or Train (P2)
* Test Submissions
* View Profile (P3)
* Find people in your clan (P3)

Following are the proposed tests in this framework based on priority:

Following languages and tools will be used for implementing this project:

Programming Language: Java

Testing Framework: Junit

Project Management Tool: Maven

Web Browser Automation: Selenium

Continuous Integration Tool: Jenkins

Version Control System: git

Generating Reports: Apache SureFire

* The test scripts implemented will be portable across different browsers and platforms without making any additional changes. Hence, effective time and cost management will be achieved.
* Performing regression tests smoothly.
* Making the tests well documented , reusable and ensuring that any future expansion is possible.