

## **Ideal Plan**

Ideally, we would like to test our system on every browser including Safari, Firefox, Chrome, Internet Explorer, Netscape, and Opera. In addition, we would want to test for each individual operating system including Linux, Windows, and Mac OS. We would like to test our scheduling module on a large variety of inputs to ensure that it works over a wide variety of students and test cases. In addition we would test every separately constraint to ensure that they function as expected in different conditions.

## **Intended Plan:**

We will be testing our application on Windows and Mac OS in Chrome and Firefox as these are the most popular browsers and operating systems. We are going to ensure that each page of our application runs smoothly and functions without bugs. In addition, we will test the scheduling engine of our application separately using python unittest framework.

## **Platforms to be tested:**

Windows, Mac OS, Chrome, and Firefox

## **Test Cases:**

### **Development Sprint 1 – Scheduling Module Test Bench**

Test Case 1: We are going to test the creation of the data needed to make a schedule. We will test being able to add candidates and locations to the scheduling module. We will then test the ability of the module to populate arrays containing the greatest need and to find the greatest need of the array. This will be done using the Python 3.4.5 unittest framework.

Test Case 2: We will test the ability of our schedule to take the constraint given and schedule a test data set consisting of one location and four students open for several hours a day. We expect to generate a suboptimal but usable schedule. This will be done using the Python 3.4.5 unittest framework.

## **Links:**

<https://github.com/WritingCenterScheduler/Engine/tree/development/tests>