Davon Grant Assignment 1

**Project:** This project will be a Ticketmaster bot that automatically purchases tickets in as short of a time as possible. This will allow the user to secure limited tickets before they sell out.

**Functional Requirements:**

**1. Ticket Checkouts**

1.1. The system should be able to access Ticketmaster through the use of either the desktop or mobile API, depending on the user’s choice.

1.2. The system should accept “keywords” and constantly search the Ticketmaster website for the keywords until it successfully finds tickets.

1.3. The system should checkout as fast as possible using the information that is provided by the user.

1.4 The system should automatically solve any captcha challenges that are given throughout the checkout process

1.5. The system should report to the user if they were successful in checking out the tickets or not.

**2. Profile Management**

2.1. The system should allow users to enter profiles that include billing information as well as shipping information.

2.2. The system should allow users to edit or delete profiles.

2.3. The system should allow users to choose what profile they want to assign to what checkout task prior to running the task.

3**. Settings**

3.1 The system should allow users to set custom refresh delays in milliseconds.

3.2 The system should allow suers to deactivate their key in case they want to activate it somewhere else.

**Nonfunctional Requirements:**

**1. Operational**

1.1. The system should be request-based, allowing it to move through the Ticketmaster website as quickly as possible.

1.2. The system should use the user’s internet connection to complete the checkout process.

**2. Performance**

2.1. The system should be able to checkout after finding tickets under 4 seconds.

2.2. The system should not be CPU-intensive unless several instances are run at once.

**3. Security**

3.1. The system should only store billing information locally on the user’s machine.

3.2. Users should only be able to use the system if they have a valid key which is given to them upon purchase

3.3. The system should only allow each key to be activated on one machine at a time.

**4. Cultural and Political**

4.1 Customer information must be protected in compliance with both the Data Protection Act and GDPR.