***https://docs.google.com/document/d/1fysh6AZCsUILxG\_SvARK6TwFblpx4aiiTQn-97dhDDU/edit?usp=sharing***

***Agent-Based Consumer Product Rating***

**Functional Requirements**

1. As a consumer I want the product rating system to be secure, so that my information is kept private

2) As a customer I want the consumer product rating system to be user friendly, so that it is easy for “technology impaired” people to use

3) As a product reviewer I want to be able to edit/update my reviews, so I may change grammatical errors or update my thoughts on a product.

4) As a user I would like the ability to search for products of interest.

5) As a user I would like ability to navigate to the website where the reviewed product is marketed, so that I can buy a product I am interested in.

6) To be able to view a consumer based rating of the product of interest.

7) To be able to view previously viewed products.

8) To be able to view products similar to the product of interest.

9) The ability for a customer to sign up and become a member.

10) Implement a CAPTCHA system to help prevent automated/bot registration.

11) The ability to receive an email confirming membership and to verify.

12) The ability to filter review ratings. Such as seeing the negative reviews, positive reviews, etc.

13) The ability to allow other customers to indicate whether they found another review helpful or not.

14) The ability to view the price of the reviewed product of interest from various vendors.

15) The ability to select a category of products from a drop down list.

16) Create and clearly define a Relational Database that can easily and efficiently search/store/retrieve data into the database

17) The database is secure from various attacks such as SQL injections

18) The ability to detect review “bombing” (a high amount of negative or positive reviews in a short amount of time with the intention of drastically changing the rating of said product) [Note: Might be too similar to other CSCI3300 project, but it can be done on a much simpler level]

19) Allow customers to sort reviews

20) Predictive search suggestions

21) To ensure any external links provided by the application (such as a link to the product on amazon) are authentic, safe, and secure; i.e. do not allow malicious links embed themselves among safe links. Particularly within modules such as links to online vendors selling the product.

**Non-Functional Requirements**

1) Clean, simple UI. Not overtly crowded with a bunch of images and buttons that do not add anything significant to the user experience

2) Design the application to be viewable on both mobile devices and on a computer

3) Design the UI in accordance with the 7 Principles of Good Design

4) Minimally invasive Advertisement placement. For example; no annoying pop-ups or awkwardly placed banner advertisement. Banners are kept to the borders of the site.

5) DNS name that is not overtly complicated, long, or hard to spell for people to search for or type in the URL for. For example: www.justreallyreallysimplecustomerreviews.com would not be a good DNS name due to length and thus more opportunity to mess-up.