

## Criterion E: Evaluation

Word Count: 265

User acceptance testing was chosen as a primary testing technique for the product and brought up in

**Criterion B.** Transcript regarding user acceptance testing can be found in **Appendix 3**.

No.	Success Criteria	Evaluation
1.	Clients can login with existing accounts	Satisfied. The client was able to login into the application using the correct credentials on the login page.
2.	Clients can create accounts themselves	Satisfied. The client was able to create an account required for the application using the register page.
3.	Clients can run an update query to gather data from the internet.	Satisfied. The client was able to run update an update query using the update button within the application for gathering updated information from the e-commerce websites on the internet.
4.	Users without an account cannot access the content of the application	Satisfied. The resources and data were restricted to unauthenticated accounts to ensure the safety of the content within the application.
5.	Clients can filter the manufacturers and e-shops in graphs	Satisfied. The client was able to filter the graphs based on manufacturers and e-shops to dynamic graphing of data on the first page of the application.
6.	Clients can submit product analogs which are then saved in the database	Satisfied. The client was able to submit product analogs on the second page using data tables.
7.	Clients can remove analogs from the database	Satisfied. The client was able to remove submitted product analogs on the second page using data tables.

8.	Clients can compare analogs based on a total price or price difference	Satisfied. The client was able to compare product analogs based on the total price or price difference in the data table using filters.
9.	User inputs are all validated	Satisfied. The inputs are handled by the application. Inputs from the client were validated before being used or stored in the database.
10.	Sensitive user data is encrypted	Satisfied. Sensitive user data was encrypted before being sent across the network or used and stored in the database.
11.	Clients can search for any product within the database with their link and last price	Satisfied. The client was able to search for any product gathered from e-shops on the third page. The client was also able to access information such as URLs or the last price recorded of the product.

## Further development opportunities

- **Automatic Product Matching:** Currently, the application allows the client to enter equivalent products which only then are compared. The improvement could be done by utilizing algorithms to match equivalent products using their titles. Automatic product matching would alleviate the workload from the client as all of the equivalent products would be matched by the application.
- **Scheduled Data Query Updates:** Improvement could be done by allowing the client to schedule update queries which would be done by the application. Not only this would be useful when the client is unable to access the application due to connectivity or hardware issues, but it would also provide benefits when the person responsible for sales and prices would leave for holidays.
- **Notification System:** Notifications to the client using email could be sent when large price changes occur between equivalent products which would enable the business to react to changes in the prices of their competitors and achieve more revenue.
- **Removal of terminated products:** Products that have been taken out of the e-commerce website could be removed from calculations of prices once an inactive amount of time is measured. This would ensure that the prices of the products are reflective of the situation at a given point in time and would reduce the possible errors within the results.