BRD: Quick Add to Cart

User Story

As a business user, I want to allow my customers to search for **configurable** products via a quick add to cart form. We'll allow them to search by:

- Product name
- Product SKU
- Item ID
- UPC

While searching I want my customers to see 5 results as they are typing.

When a product is found, I want my customers to:

- select the attributes to configure the configurable product
- be able to edit the qty
- add several selections to the cart. For example, if I search for SKU: **ABC** and the product has 3 child products, I want the customer to be able to add all three if they want to.

Functional Requirements

- If you find a product THEN display the product
- If you don't find a product THEN offer related products
- If a customer searches for a non-configurable product THEN displays the configurable product related to that search

Technical Requirements

A Lead Architect I want this solution to include:

- Service Contracts
- Translations (not template modifications)
- Js Mixins
- Caching strategies

Assertions

- You can enable or disable the add to cart
- You can limit the number of results shown

- You can change translate on the quick to add
- You can limit the number of products you can add to the cart. If a product has 20 options, I can decide to display only the first 5.

Assumptions

- Magento is already installed and running with 300k products
- Elastic Search, Rabbit MQ, Varnish and Redis are part of the solution
- You can leverage Service workers and local storage
- You can preload all the data for any page
- This solution will work per website - not per store
- We have 2 active websites with plans to add 4 more

Constraints

- Unit Tests are encouraged but not required
- Time limit is 2 hours
- Each website has a specific color scheme
- Due to the time constraints:
  - Styles are encouraged to be presentable
  - Product options are encouraged but not required

UAT

After the module is installed:
- can I see the configuration in the admin?
- Is the module configuration working?
  - Can I enable the module per website?
  - Can I change the message in the title?
  - Can I limit the number of products displayed in the autocomplete and results?
- As I am typing, do I see autocomplete and quick results?
- When I am stop typing, do I see a loader?
- When the search is complete, do I see products?
- When I see products, do I have a way to edit the product qty, add multiple options to my cart and checkout?

Notes

- While the time limit is 2 hours feel free to go up the way to 4 if you have availability

- For delivery:
  - Create a composer Magento module
  - Create a Github repository
  - Add any instructions to get this module installed
  - If the module is not complete. Explain the thought process for the missing parts