**Lockers Recommendation Engine**

**Brief Description**  
Pickup from lockers are currently a small percentage of our overall volume. One of the key focus areas is to increase demand to our lockers. Build a recommendation platform based on customer’s preference, dwell times, items in the cart, previous past behaviour, and location. You can build a sample data emulator that generates sample customer data and create a crawler to get metadata of ASINs. We will provide sample data set for lockers. The recommendation platform should have widgets that can be used on our retail website, email marketing tools, and other platforms.   
  
**Goals**

* This tool should be divided into service and frontend client.
* Create UI that takes a new user and its feature set and gives a recommendation
* Use ML models/filtering to achieve higher accuracy recommendations
* Minimal changes required for new features/fields

**Phase 1 - Data**

* Identity exhaustive Feature Sets
* Create crawler to get feature set information (like item information)
* Create Test Data Emulator

**Phase 2 - Service/UI**

* Applying multiple ML models and choose the one with highest accuracy
* Create a UI widget that takes the user information and displayed the locker recommendation

**Phase 3 - Analytics**

* How many users are actually ordering to the locker based on our recommendations
* Let's say we recommended locker A and user ordered to locker B, have a mechanism in place to take feedback and learn why they chose a different locker