

Java Developer Assessment Solution:

- Filter based solution and implementation regarding user budget and history purchased items attributes frequency.
- Customer price preference and purchased product attributes including to filtering operation provided to customer personal based custom recommended recipes.
- Recipes naming based attribute filtering added to more realistic filtering on recommended products without extra tagging for products.

Dress Recommendation Service and Recipe Recommendation Research,

Recommendation System implemented via Machine Learning algorithms or Deep Learning.

For my solution I do not have chance to implement machine learning based algorithm because of data requirements.

However better solutions have been completed researches in academic and professional researches.

- H&M has been created dataset and deep learning solution for personal based recommendation in 2022.
<https://www.kaggle.com/competitions/h-and-m-personalized-fashion-recommendations/overview/evaluation>
- Amazon.com Item-to-Item Collaborative Filtering, Greg Linden, Brent Smith, and Jeremy York • Amazon.com
<https://www.cs.umd.edu/~samir/498/Amazon-Recommendations.pdf>

Different Machine Learning and Deep Learning libraries and tool could be used to implement better solution based on data.

Business Advantage and Improvement: Gamification!

Customer: "This is MyRecipe for Long Travel! what's yours?"

Recommendation Service provides simple solution and non-learning supported algorithm.

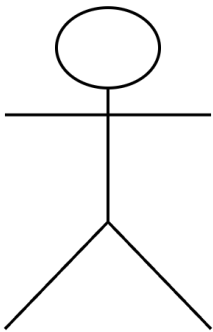
However service and system is provide a new advantage on user experience and H&M.

With this system we are able to create data collection mechanism based on customers specification needs and ideas.

This system could provide to customers as gamification.

We are able to get more recipe, human created, more realistic recipes and tagging with this gamification.

We are able to create recipe sharing platform and while customers sharing their recipes they will advertising our products.



Customer

Customer Fills The Form.

- budget
- pricePreferences
- recipeName
- numOfRecipe

Select the % of budget to spend by each category of dress recipe. Request number of recipes for choice.

RecipeRequest

- customerId
- budget
- pricePreferences
- recipeName
- numOfRecipe

RecipeRequest

- 1
- 500 SEK
- Preferences
 - top: % 40,
 - bottom: %30,
 - Accessories: %10,
 - Shoes: %20
- Wedding
- 5

Analyse The Customer Budget

- Budget
- topClothesBudget
- bottomClothesBudget
- shoesBudget
- accessoriesBudget

Analyse The Customer History

Calculates the customer purchase frequency

- Colors
- Styles
- Materials
- Seaons

Create Different Recipes with Results

Recipe	Recipe	Recipe
A	B	C

Customer Buy Selected Recipe and Add to Cart Pays

Recipe	Recipe	Recipe
A	B	C

