**Ideation Phase**

**Brainstorm & Idea Prioritization Template**

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| Date | 20 September 2022 |
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| Team ID | PNT2022TMID42501 |
| Project Name | Smart Fashion Recommender Application |
| Maximum Marks | 4 Marks |

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| **Template** | **Brainstorm**  **& idea prioritization**  Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.  **10 minutes** to prepare  **1 hour** to collaborate  **2-8 people** recommended  [**Share template feedback**](https://muralco.typeform.com/to/CiqaHVat?typeform-source=app.mural.co) | **Before you collaborate**  A little bit of preparation goes a long way with this session. Here’s what you need to do to get going.  **10 minutes**   1. **Team gathering**   Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.   1. **Set the goal**   Think about the problem you'll be focusing on solving in the brainstorming session.   1. **Learn how to use the facilitation tools**   Use the Facilitation Superpowers to run a happy and productive session.  [**Open article**](https://support.mural.co/en/articles/2113740-facilitation-superpowers) | **1**  **Define your problem statement**  What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.  **5 minutes**  **PROBLEM**  **How to recommend the outfits for the users/ Customers based on their interest and ratings with the help of a chatbot.**  **Key rules of brainstorming**  To run an smooth and productive session  Stay in topic. Encourage wild ideas.  Defer judgment. Listen to others.  Go for volume. If possible, be visual. | **2**  **Brainstorm**  Write down any ideas that come to mind that address your problem statement.  **TIP**  **10 minutes** You can select a sticky note  and hit the pencil [switch to sketch] icon to start drawing!    **Person 1 Person 2 Person 3 Person 4**  A smart or intelligent Content-based filtering is Content based It enables users to Recent technological The combination of fashion The era of This system integrates The fuzzy decision trees constitute Unlike other areas,  A Recommendation System recommendation approach Recommendation an approach that uses the emotional fashion themes and an empirical model based on fashion  depicts a system, is capable of uses features or attributes engines are a subclass descriptions of what users recommender have access to the advancements have preferences and the recommendation systems human perception on learning data measured and  anticipating the future of the clothing and user in of machine learning systems use items products and enabled consumers to abovementioned factors originally started in the personalized body shapes and evaluated on a set of recommendations  preference/recommendation of terms of users' body viewed or bought in the track current fashion associated with clothing 1990s based on the professional designers' representative samples. The shouldn’t be based  a set of items/products for a which generally deal past, and then an item is or users metadata to services easily trends around the globe, choices could transmit the widespread research knowledge. The corresponding complex relation between basic solely on personal  shapes, contextual recommended based on image features for a better perceptual data are sensory descriptors and fashion  user, and recommends the top information of wear, outfit with ranking or rating the similarities of previously create specific within limited which influence their understanding of consumers’ progress in Collective systematically collected from themes, given by consumers, is taste and past activity  items. type and genre products / users. used items. recommendations. periods of time. choice preferences Intelligence professional using sensory modeled using fuzzy cognitive of the customer.  characteristics evaluation techniques.. maps.  The recommendation in the collaborative method, content based They represent a There are multiple phases I have worked in the data data can be retrieved system is bound to have It deals with the past user-item interactions methods build a combination of different The first consumer- Recommendation system involved in the Many recommendation industry for over seven in the forms of voting, the personal information user profile and are adequate for identifying recommenders. The focused recommendation (RS) is referred to as a recommendation system walk you through how to create a systems need user's years and had the privilege  tagging, reviewing and of users and use it to the model on the basis of assumption is that a system was developed decision-making fashion recommendation system of designing, building, and  the number of likes or fullest in order to provide related data for similar users/ items and “available features” combination of several and commercialized by approach for users under that develop the with AI Learning that will work like previous shopping deploying two create predictions foundation of any state-of- highly personalized online activities and digital recommender systems  personalized suggesting items different recommenders will Goldberg, Nichols, Oki a multidimensional shopping recommendations. But  dislikes the user recommendation depending on such that describes user- give better results than a and Terry in 1992. information environment the-art recommendation before you go ahead, you need to footprints to make best (RecSys) that went on to  provides. of user interest. estimated proximities. item interactions. single algorithm. system. know what a recommendation recommendation purpose serve millions of customers  services. system is. for next item shopping.  the recommender The main advantage of Collaborative filtering is the FRS can be defined as a means of The paper has categorized the Recommendation systems The model should be able to  Collaborative filtering is a The recommending Collaborative filtering method for a recommender feature matching between fashion recommendation systems into five scan across all 280,000+  uses sets of attributes family of algorithms where this approach is that it products and users or consumers classes such as fashion image have the potential to explore A recommendation  system provides new simply identifies the does not require any system that uses user under specific matching criteria. retrieval, a personal wardrobe new opportunities for retailers product images and system is a system that  to recommend there are multiple ways to ways of finding or different relationships history and activities for Different research addressed recommendation system, a by enabling them to provide automatically generate a  find similar users or items information about users knowledge-based recommendation group of recommended is programmed to A recommendation different items to and multiple ways to extracting personalized between users and or items and hence can recommendations, or say apparel attributes such as the system, smart or intelligent customized recommendations system works either by different numbers of information on the products and predicts past interaction between formulation of colors, clothing recommendation systems and a to consumers based on products that are customized predict future using user preferences  calculate rating based on be used in many shapes, outfit or styles, patterns or social-network-based information retrieved from the to what the user has viewed/  users. ratings of similar users. internet. different items for users. circumstances. users and items to make prints and fabric structures or recommendation system based on Internet. bought. preferable items from or by using the items  new recommendations. textures previous research and academic a large set of most preferred by all  articles.  collections. users  **Person 5 Person 6 Person 7 Person 8**  It is a class of Public perception A recommendation a recommender system is Recommender Advantages: Disadvantages: The amount of data that is These system use It collects customers The main challenge in The performance of a systems are No need for data on other users Finding the collected from the users information filtering data and auto analyze machine learning building a function must be taken into system works either by a system which predicts recommendation when applying to similar users. appropriate feature is when they choose to do so.  this Data to generate algorithms used by using user ratings a user might give algorithm is evaluated beneficial to Able to recommend to users Many of the times, users  technique to process recommendation account as well as to a specific item. These with unique tastes. hard. choose not to provide data  information and provide customized developers to system in that it is a performance or by predictions will then be by using some specific both service Able to recommend new & Doesn’t recommend  to used with potentially recommendation for fashion rule and using the items most metrics that indicate the popular items for the user. So, this data is  predict the user's very dynamic industry ranked and returned back providers and Explanations for recommended items outside the user scarce and sometimes  more relevant items your customers choices current trends preferred by all users to the user. accuracy of the system. users items. profile. costs money.  The computation There are many A product recommender systems are Singular value  The recommendation a class of machine methods or external factors that The similarity The recommendation engine algorithms aimed at Python offers probably the The most commonly used The purpose of a decomposition also  systems reduce learning algorithms used algorithms make creating a measure used in recommendation is essentially a solution suggesting relevant items most popular and powerful Supervised Learning recommender known as the SVD transaction costs of by developers to predict that allows marketers to to users (items being interpreted language, which algorithms are decision algorithm is used as a finding and selecting the users' choices and corresponding to fashion their projects in are extracted from offer their customers movies to watch, text to means that when you build tree, logistic regression, system is to collaborative filtering  the fashion recommendation the cosine the database and relevant product read, products to buy or your recommendation linear regression, support suggest relevant method in  items in an online offer relevant system, you will be able to vector machine are used in  shopping environment suggestions to users. recommendation system all the more similarity measure their are displayed recommendations in real- anything else depending on work with others. recommendation system. items to users. recommendation  system complex time. industries). systems.  Collaborative filtering Recommender systems It is generally used The concept of The recommder The overall The cooperative interactive a recommender These systems use kNN is a machine learning Public perceptions we will be building a recommender  (CF) and its are a useful alternative to evaluate the transfer learning in system is to provide experience of genetic algorithm can be system is a system algorithm to find clusters must be taken into system in Java using Apache  modifications is one to search algorithms divided into two parts: one information filtering of similar users based on Mahout. Apache Mahout is an  performance or used to overcome recommendations fashion exploration which predicts techniques to process common dress ratings, account, as well as open source project used to create  of the most since they help users accuracy of the the issue of the based on record for direct and is the cooperative genetic ratings a user might information and provide and make predictions fashion rules, outfit machine learning algorithms. You  commonly used discover items they algorithm, and the other is using the average rating can use it to implement machine  information inform on the interactive genetic the user with potentially guidelines and current learning techniques like  recommendation might not have found recommendation small size fashion the user's preference indirect consumers algorithm. give to a specific more relevant items. of top-k nearest trends. classification, clustering, and  recommendation.  algorithms. otherwise. algorithms data alike item. neighbors. | **3**  **Group ideas**  Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.  **20 minutes** | **4**  **Prioritize**  Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.  **20 minutes**  Collaborative Get users  Filtering information  Python  based on  search history  Use of HTML and  Content-Based CSS  Recommendation System  database  for storing Javascript  details of the user.  **Importance**  If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?  **TIP**  Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.  **Feasibility**  Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.) | **After you collaborate**  You can export the mural as an image or pdf to share with members of your company who might find it helpful.  **Quick add-ons**   1. **Share the mural**   **Share a view link** to the mural with stakeholders to keep them in the loop about the outcomes of the session.   1. **Export the mural**   Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.  **Keep moving forward**  **Strategy blueprint**  Define the components of a new idea or strategy.  [**Open the template**](https://app.mural.co/template/e95f612a-f72a-4772-bc48-545aaa04e0c9/984865a6-0a96-4472-a48d-47639307b3ca)  **Customer experience journey map**  Understand customer needs, motivations, and obstacles for an experience.  [**Open the template**](https://app.mural.co/template/b7114010-3a67-4d63-a51d-6f2cedc9633f/c1b465ab-57af-4624-8faf-ebb312edc0eb)  **Strengths, weaknesses, opportunities & threats**  Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.  [**Open the template**](https://app.mural.co/template/6a062671-89ee-4b76-9409-2603d8b098be/ca270343-1d54-4952-9d8c-fbc303ffd0f2)  [**Share template feedback**](https://muralco.typeform.com/to/CiqaHVat?typeform-source=app.mural.co) |
| types of recommendation  systems. Algorithms used Use of Programming Languages and markup  language  **TIP**  Add customizable tags to sticky  Collaborative recommender notes to make it easier to find,  systems aggregate ratings or  recommendations of objects, collaborative browse, organize, and  recognize commonalities filtering models.  between the users on the basis  of their ratings, and generate They are built on a categorize important ideas as  new recommendations based  on inter-user comparisons dataset of user/ Python  item feedback. themes within your mural.  A content-based User-based  recommender learns a  profile of the new nearest-  user’s interests based  on the features neighbor Javascript  present, in objects the collaborative  user has rated. filtering  Demographic-based Item-based  recommender system the  algorithms first need a nearest-  proper market research in neighbor HTML  the specified region  accompanied with a short collaborative  survey to gather data for  categorization. filtering  Utility based Singular value  recommender system  makes suggestions decomposition  based on computation and matrix- CSS  of the utility of each factorization  object for the user.  Support  recommendation works on Vector  Knowledge based  functional knowledge: they have  knowledge about how a Machine  particular item meets a  particular user need, and can  therefore reason about the Algorithm  relationship between a need  and a possible recommendation.  Combining any of the two systems in a manner that suits a particular industry is known as Hybrid Recommender system. |
|  | **Need some inspiration?**  See a finished version of this template to kickstart your work.  [**Open example**](https://app.mural.co/template/e5a93b7b-49f2-48c9-afd7-a635d860eba6/93f1b98d-b2d2-4695-8e85-7e9c0d2fd9b9) |  |  |  |  |  |  |

Memory based techniques are applied to raw data without preprocessing. They are easy for implementation and the resulting recommendations are generally easy to explain.

There has been significant progress recently in fashion recommendation system research, which will benefit both consumers and retailers soon

