

## Project Design Phase-1

### Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMIDxxxxxx
Project Name	Project - xxx
Maximum Marks	2 Marks

#### Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> <li>● Fashion is an area that is inconstant growth.</li> <li>● In the recommendation system the problem is trying to forecast the opinion the users will have on the dissimilar substance and be able to recommend the finest items to each user.</li> <li>● Some other problems in the recommendation system are data sparsity,scalability and grey sheep</li> <li>● This phenomenon leads to an extremely low utilisation of information,also known as the information overload problem.</li> </ul>
2.	Idea / Solution description	<ul style="list-style-type: none"> <li>● Smart fashion is being developed for various applications such as entertainment,communication and safety protection.</li> <li>● Most of the existing VLC systems have been developed for white lighting,which is unsuitable for fashionable clothing.</li> <li>● Fashion brands of all sizes and specialties are using technology to understand and anticipate market demand and respond swiftly with trendy designs and customizable styles.</li> <li>● According to different studies,e-commerce retailers,such as Amazon,eBay,and Shopstyle,and social networking sites,such as Pinterest,Snapchat,Instagram,Facebook, Chictopia,and Lookbook,are now regarded as the most popular media for fashion advice and recommendatios.</li> </ul>

		<ul style="list-style-type: none"> <li>● Research on textual content, such as posts and comments, emotion and information diffusion, and images has attracted the attention of modern-day researchers, as it can help to predict fashion trends and facilitate the development of effective recommendation systems.</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>● The novelty of the proposed methodology embodies two aspects, introducing a rich apparel knowledge based data and new training models with deep learning driven approaches .</li> <li>● Recommender systems are changing from novelties used by a few E-commerce sites, to serious business tools that are re-shaping the world of E-commerce.</li> <li>● When used in relation to humans, it is often in relation to a person's personality, or some specific characteristics of it, signalling that it is unlike the personality traits that are prevalent in that individual's culture.</li> <li>● When the term uniqueness is used in relation to an object, it is often within the realm of product, with the term being a factor used to publicise or market the product in order to make it stand out from other products within the same category.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>● Research on recommender systems has consistently suggested that customer satisfaction will be highest when the recommendation algorithm is accurate and recommends a diversity of items.</li> <li>● However, few studies have investigated the impact of accuracy and diversity on customer satisfaction.</li> <li>● In this research, we seek to identify the factors determining customer satisfaction when using the recommender system.</li> <li>● The results show that accuracy and diversity positively affect customer satisfaction when applying a deep learning-based recommender system.</li> <li>● By contrast, only accuracy positively affects customer satisfaction when</li> </ul>

		applying traditional recommender systems.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>● The resultant accuracy of the resultant model was around 86%.</li> <li>● The intention of this paper was to create a model that does proper labelling of clothes.</li> <li>● Hence it is not a Fashion Recommendation System that recommends clothing choices to the user.</li> <li>● We will evaluate models with both traditional and diversity metrics.</li> <li>● The drawback is there is no standalone application that can be used by the patient to use this model.</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>● Fashion recommendation technology has been the most successful recommendation technology so far, but there are two major problems-recommendation quality and scalability.</li> <li>● At present, research at home and abroad mainly focuses on recommendation quality, and there is less discussion on scalability.</li> <li>● The scalability problem is that as the size of the system increases, the response time of the system increases to a point where users cannot afford it.</li> <li>● Unmade is a fashion technology business that provides a digital solution to create customisation at an industrial scale.</li> </ul>