



Project Initialization and Planning Phase

Date	25-03-2025
Team ID	LTVIP2025TMID28445
Project Title	Cosmetic insights
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview	
Objective	To develop an AI-powered platform that provides insights into cosmetic products, helping users make informed decisions based on ingredients, sustainability, and suitability for their skin type.
Scope	 Analyze cosmetic product ingredients and their effects. Provide personalized recommendations based on user preferences and skin type. Offer transparency in sustainability practices of cosmetic brands. Use AI and data analytics to generate insights from product databases.
Problem Statement Description	Consumers struggle to find reliable, personalized information about
Impact	 cosmetic products. Most product descriptions are generic, and ingredient lists can be confusing. There is also a lack of transparency regarding the sustainability of brands. Helps users choose safer and more effective products.





Proposed Solution	 Enhances transparency in the cosmetics industry. Reduces the risk of allergic reactions and unsuitable product usage.
Approach	 Utilize AI/ML for ingredient analysis and personalized recommendations. Develop a web-based or mobile application for easy access. Integrate a database with verified cosmetic product details.
Key Features	 AI-powered ingredient analysis. Personalized product recommendations. Sustainability and ethical rating of brands. User reviews and community-driven insights.

Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	memory	e.g., 2 x NVIDIA V100 GPUs		
Memory	RAM specifications	e.g., 8 GB		
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD		
Software				
Frameworks	Python frameworks	e.g., Flask		





Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy			
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git			
Data					
Data	Source, size, format	e.g., Kaggle dataset, 10,000 images			