

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID17806
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Signup Form UI Registration through Form
FR-2	User Confirmation	Login form UI Confirmation via Email
FR-3	Admin Login	One specific account for admin
FR-4	Chatbot	IBM Watson account registration Creation of Actions and Steps Recommender module
FR-5	Home Page	Create a Flask Webpage Dashboard for User Activities Integrate Chatbot Listing the products Enabling recommendations
FR-6	Notifications	SendGrid Account Registration Tracking the Orders Mail Confirmations
FR-7	User Database	IBM DB2 account Registration IBM Cloud CLI Installation Maintain User table through UI
FR-8	Product Database	Creation of Tables Manage Product list through UI
FR-9	Add Products Page (Admin)	UI Development for managing Products
FR-10	Cluster	Creation of Container and Registry Deploy application through IBM Kubernetes

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	All Kinds of users can view, search and purchase the fashion products available in the website.
NFR-2	Security	The web application is safe both in terms of policies and user privacy. The credentials and user preferences are stored in the IBM DB2 which ensures the data security.
NFR-3	Reliability	The website works using the Kubernetes and containerized using Docker which ultimately increases the reliability of the Application.
NFR-4	Performance	The website performance is dependent on the network facility. Since, the data is fetched from the cloud.
NFR-5	Availability	The Website and its services are available 24/7.
NFR-6	Scalability	The Smart Fashion Recommender application is a web-oriented application. This can be extended to a downloadable version. And the Chatbot can be extended to multipurpose chatbot. The purchase option can be developed and deployed in later version.