

Project Design Phase-II
Requirement Analysis And Technical Architecture

Date	03 Nov 2023
Team ID	NM2023TMID020
Project Name	Creating a blog using wordpress platform

Requirement Analysis

1.Functional Requirements:

Specify the functional requirements of the project, which define the desired system behaviors, features, and capabilities.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration and Profile Management	<ul style="list-style-type: none">- User Registration: Users should be able to create accounts by providing essential information such as name, email, and password.- User Profile:Registered users can manage their profiles, including updating personal information and profile pictures.
FR-2	Content Management	<ul style="list-style-type: none">- Blog Posts: Admins should be able to create, edit, and delete blog posts with options for text formatting, images, and videos.- Categorization: Allow categorization of blog posts into skincare, makeup, product reviews, and other relevant categories.- Tagging:Implement a tagging system for blog posts to enable easy searching and content discovery.
FR-3	Search and Filter	<ul style="list-style-type: none">- Search Functionality: Implement a search bar that allows users to search for specific topics, products, or blog posts.- Filtering:Provide options for users to filter content by categories, tags, and publication date.

FR-4	Analytics and Reporting	<ul style="list-style-type: none"> - Website Analytics: Implement website analytics tools to track user engagement, popular content, and user demographics. - Reporting: Provide reporting capabilities to assess the performance of sponsored content and affiliate marketing campaigns..
------	-------------------------	--

Non-Functional Requirements:

Outline the non-functional requirements, such as performance, security, scalability, or usability, that define the qualities and constraints of the system.

FR No.	Non-Functional Requirement	Description
FR-1	Performance and Scalability	<p>The website should load quickly, with a maximum acceptable page load time, to provide a smooth and responsive user experience, ensuring that users can access content without delays.</p> <p>The platform should be designed to handle increasing traffic and content, ensuring that the website can grow in terms of the number of users and articles without sacrificing performance.</p>
FR-2	Security and Usability	<p>Implement robust security measures to protect user data, prevent unauthorized access, and secure the website against potential cyber threats, such as data breaches or malware attacks.</p> <p>Ensure an intuitive and user-friendly interface, making it easy for visitors to navigate the blog, find content, and access relevant information about skincare and cosmetics.</p>
FR-3	Accessibility and Content Management	<p>The website should be accessible to all users, including those with disabilities. This involves compliance with accessibility standards like WCAG to provide content that can be easily consumed by individuals with diverse needs.</p> <p>Implement a content management system (CMS) that enables easy content creation, editing, and organization for authors and administrators, streamlining the content publication process.</p>
FR-4	Performance Monitoring	<p>Regularly monitor website performance, such as page load times and server uptime, using appropriate tools to identify and address performance issues promptly.</p>

2.Operational Requirements:

Operational requirements for a skincare and cosmetics blog include regular content updates, effective content management, and responsive user engagement to ensure a dynamic and thriving online platform.

OR. No	Operational Requirements	Description
OR-1	Website Hosting and Maintenance	Ensure reliable hosting services to keep the blog accessible and responsive. Regularly update and maintain the website to optimize performance and security, fix bugs, and ensure a smooth user experience.
OR-2	Content Management System	Implement and manage a user-friendly CMS like WordPress to create, organize, and publish content efficiently. This system allows for easy updates and customization of the blog.
OR-3	Content Creation and Editorial Workflow	Establish a structured content creation and editorial process. This includes creating content calendars, assigning responsibilities, reviewing and editing articles, and ensuring a consistent publishing schedule.

3.Technical Requirements:

Technical requirements for the blog include a reliable web hosting service to ensure fast page loading, secure SSL encryption for user data protection, and regular backups to safeguard content.

TR. No	Technical Requirements	Description
TR-1	Web Hosting	Choose a reliable web hosting service that can handle your blog's traffic and provide good uptime. Opt for a hosting plan with sufficient storage and bandwidth to accommodate your content and potential growth.
TR-2	Responsive Design	Ensure your blog has a responsive design that adapts to various screen sizes, including mobile devices and tablets, to provide a seamless user experience.
TR-3	Security Measures	Install security plugins and practices to protect your blog from potential threats like malware, hacking, and spam.

Technical Architecture:

1. Web Hosting:
 - Choose a reputable web hosting provider to ensure the blog is accessible and responsive. Shared, VPS, or cloud hosting options can be considered based on your traffic and performance needs.
2. Content Management System (CMS):
 - Utilize WordPress, as it's user-friendly and well-suited for blogging. WordPress offers various themes and plugins for customization and functionality.
3. Database:
 - Employ a relational database system like MySQL to store blog content, user data, and settings.
4. Server-Side Scripting:
 - Use PHP as the server-side scripting language for WordPress, which handles dynamic content generation.
5. Front-End Technologies:
 - HTML, CSS, and JavaScript are essential for building the blog's user interface and interactivity. Ensure responsive design for mobile devices.
6. Security Measures:
 - Implement security plugins and practices to protect against common web vulnerabilities, including firewalls, regular updates, and strong password policies.
7. Content Delivery Network (CDN):
 - A CDN can be used to improve page load times and enhance user experience by caching and delivering content from servers located closer to the user.