

AllergyCare

Submitted by :- Ashwin S Pillai

Roll No :- 27

Batch :- S3 RMCA

Date :- 04/09/2023

Guide :- Ms Lisha Varghese

Feasibility Study

Feasibility is a critical aspect of evaluating the practicality and viability of any software development project. In the case of the Skin Allergy Specialist Application, a comprehensive feasibility study has been conducted to determine whether the proposed solution aligns with organizational objectives and is practical within the context of software development.

The Skin Allergy Specialist Application represents an innovative and essential healthcare solution tailored to meet the unique requirements of individuals dealing with skin allergies. Skin allergies, a prevalent health concern, demand timely and precise diagnosis and treatment. This application aims to bridge the existing gap by establishing an integrated digital platform that optimizes the entire process, from patient consultation to treatment.

The primary objective of this application is to provide a comprehensive and user-friendly digital ecosystem that facilitates efficient skin allergy management. Key functionalities include patient registration, appointment booking, image-based diagnosis, prescription issuance, feedback collection, and medicine procurement.

Meeting Organizational Requirements: Analyzing whether the software will effectively meet the unique requirements of individuals dealing with skin allergies, bridging the existing gap in healthcare services.

Technical Feasibility: Determining whether the project can be successfully implemented from a technological perspective, evaluating the current resources, technology, and expertise required for its development.

Operational Feasibility: Assessing the practicality of the software, particularly in terms of human resources, user acceptance, and operational efficiency, while visualizing its seamless functioning post-development.

Economic Feasibility: Conducting a thorough economic analysis to evaluate the costs associated with software development and the expected long-term returns and benefits that the system can bring to the organization.

Technical Feasibility:

The technical feasibility of the Skin Allergy Specialist Application is a pivotal consideration. It involves a comprehensive evaluation of the technological aspects required for successful implementation. Key factors include:

Resource Assessment: Evaluating the availability of necessary hardware and software resources essential for the development and deployment of the application.

Technology Evaluation: Analyzing the technical skills and capabilities of the software development team members, ensuring they possess the expertise needed for web development, image processing, and mobile application development.

Stability and Established Technology: Confirming that the chosen technology stack is stable and established, guaranteeing reliability and security in the development process.

User Community: Ensuring that the selected technologies have a large user community, enabling access to support and expertise when encountering challenges or necessitating improvements.

Operational Feasibility:

Operational feasibility is critical to ensuring that the Skin Allergy Specialist Application will function effectively in real-world scenarios. Key considerations include:

User Acceptance: Analyzing whether users, including patients, doctors, and administrative staff, will readily accept and adapt to the new digital healthcare platform.

Priority of User Requirements: Identifying and prioritizing the problems anticipated by users, with a focus on addressing high-priority issues effectively.

Solution Acceptance: Ensuring that the solutions proposed by the software development team align with organizational goals and are acceptable to the organization.

Organizational Satisfaction: Evaluating whether the organization is satisfied with the alternative solutions proposed by the software development team, ensuring cost-efficiency and practicality.

Economic Feasibility:

The economic feasibility assessment is a comprehensive analysis of the costs associated with software development and the expected long-term returns. Key factors include:

Resource Costs: Evaluating the resources, time, and effort required for software development, including requirements elicitation, analysis, hardware infrastructure, and software licenses.

Return on Investment (ROI): Analyzing the expected benefits and returns the Skin Allergy Specialist Application can bring to the organization, considering factors such as enhanced competitiveness, improved customer satisfaction, and reduced administrative costs.

Cost Reduction: Recognizing that the system is economically feasible for development, with readily available open-source software resources, reducing development costs.

In conclusion, the Skin Allergy Specialist Application's feasibility study affirms its practicality and viability. It has undergone rigorous technical, operational, and economic assessments to ensure its successful development, user acceptance, and long-term benefits for individuals dealing with skin allergies and healthcare organizations alike.