

Project Design Phase-I
Solution Architecture Solution

Date	03 Nov 2023
Team ID	NM2023TMID01362
Project Name	Creating a Social Media Ad Campaign in Facebook

Architecture:

Solution architecture is a critical process that bridges the gap between business problems and technology solutions. It serves the following goals:

Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders:

Structure: In the context of AI, structure can refer to various elements such as data organization, neural network architecture, algorithm arrangement, and system architecture. The choice of appropriate structure is vital for the performance and effectiveness of AI systems.

Characteristics: Characteristics highlight the potential benefits and capabilities of the AI-based solution, such as ODIR for eye health diagnosis. It's important to note that AI tools like ODIR should complement healthcare professionals rather than replace their expertise.

Behavior: Emphasize that the behavior of the AI solution is deterministic and driven by its programming and training data. It lacks consciousness, emotions, or subjective decision-making capabilities.

Other aspects to stakeholders: Provide comprehensive documentation and support materials, including user manuals, technical documentation, FAQs, and troubleshooting guides. Establish clear communication channels and support mechanisms to address stakeholder inquiries and technical issues.

Define Features, Development Phases, and Solution Requirements:

Features:

Features are specific functionalities or characteristics of a software or product that offer benefits or capabilities to users. They encompass the distinct components that

allow the product to fulfill its intended purpose, ranging from basic functionalities to advanced capabilities that differentiate it from competitors in the market.

Development Phases:

Development phases refer to the distinct stages or steps followed in the software development process. These phases provide a structured approach to ensure that the final product meets its objectives, requirements, and quality standards. Common development phases include requirements gathering, design, development, testing, and deployment.

Solution Requirements:

Solution requirements (or software requirements) define the specific capabilities, functionalities, and qualities that a software solution must possess to meet the needs of its users and stakeholders. These requirements serve as the foundation for the development process, guiding design, implementation, and testing. Requirements can encompass functional requirements (what the software should do) and non-functional requirements (qualities like performance, security, and scalability).

Solution Architecture Diagram:

