Project Design Phase-II Technology Stack (Architecture & Stack)

Date	26 October 2023
Team ID	Team - 592396
Project Name Potato Disease Classification	
Maximum Marks	4 Marks

Technical Architecture:

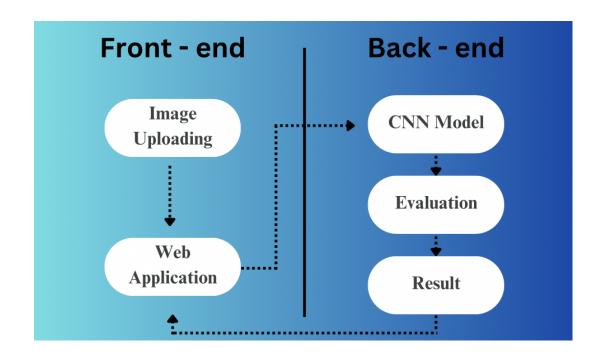


Table-1 : Components & Technologies:

S.N o	Component	Description	Technology
1.	Dataset	Collecting different images of potato leaves	.jpg, .png, .jpeg
2.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
3.	Programming Language:	Language for performing logics	Python
4.	Deep Learning Framework	Provide high-level APIs for building and training neural networks.	TensorFlow or PyTorch
5.	Data Preprocessing:	Data manipulation and analysis.	Pandas and NumPy
6.	Neural Network Architecture	Image classification tasks.	Convolutional Neural Networks (CNN)
7.	Deployment and Serving:	These are lightweight Python web frameworks.	Flask or FastAPI
8.	Documentation and Collaboration Tools	For creating and sharing documents that contain live code, equations, visualizations, and narrative text.	Google Collaboratory

Table-2: Application Characteristics:

S.N o	Characteristics	Description	Technology
1.	Open-Source Frameworks	Tensorflow, Keras (Integrated with TensorFlow)	Python