Project Initialization and Planning Phase

Date	15 March 2024
Team ID	SWTID1720027196
Project Title	Greenclassify: Deep Learning-Based Approach For Vegetable Image Classification
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview	
Objective	To create a CNN model which classifies the vegetables given by the user
Scope	It can be deployed as a mobile application
Problem Statement	
Description	Greenclassify: Deep Learning-Based Approach For Vegetable Image Classification
Impact	Automated billing in supermarket
Proposed Solution	
Approach	Deep learning model
Key Features	With accuracy more than 93%

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x NVIDIA V100 GPUs
Memory	RAM specifications	e.g., 8 GB
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD
Software		
Frameworks	Python frameworks	e.g., Flask
Libraries	Additional libraries	e.g., tensorflow
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git
Data		
Data	Source, size, format	e.g., Kaggle dataset, 10,000 images