

Project Initialization and Planning Phase

Date	17 june 2025
Team ID	xxxxxxx
Project Name	sloan digital sky survey (sdss) galaxy classification using machine learning
Maximum Marks	3 Marks

Define Problem Statements:

Problem Statement	PS-1	PS-2
I am (Customer)	An astronomer or researcher using SDSS data	An astronomer or cosmologist
I'm trying to	Automatically classify galaxies based on star formation	Estimate the redshift of galaxies from photometric measurements
But Because	Manual classification is time-consuming and non-scalable	Spectroscopic redshift measurement is expensive and time-intensive
Which makes me feel	Frustrated and overwhelmed with large-scale galaxy data	Limited in analyzing cosmic structures with incomplete redshifts