

Project Initialization and Planning Phase

Date	1 December 2024
Team ID	XXXXXX
Project Title	COVID – 19 Analysis using Tableau
Maximum Marks	3 Marks

Project Proposal (Proposed Solution)

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 an interactive Tableau dashboard that provides actionable insights into COVID-19 metrics, including vaccination progress, case trends, and state-wise testing details, to aid policymakers and researchers in data-driven decision-making.
Scope	The project focuses on analyzing key COVID-19 datasets to produce meaningful visualizations. These include vaccination coverage, testing rates, demographic analysis, and trends in cases, recoveries, and fatalities. The dashboard is intended for public health officials, policymakers, and researchers.
Problem Statement	
Description	COVID-19 has created unprecedented challenges, and analyzing its impact requires integrating and visualizing vast datasets. Current data often lacks clarity and accessibility, making it difficult for stakeholders to extract actionable insights.
Impact	By addressing this problem, stakeholders will gain a deeper understanding of COVID-19 trends, enabling better resource allocation, policy formulation, and public health interventions.
Proposed Solution	
Approach	The project will employ Tableau for its robust data visualization capabilities. Key datasets will be cleaned, structured, and integrated

	into the dashboard to create visualizations that are intuitive and easy to interpret.
Key Features	<ul style="list-style-type: none"> • Interactive charts for vaccination doses, testing rates, and case trends. • State-wise comparisons of key metrics like lab availability and confirmed cases. • Demographic analysis by age group and gender. • Weekly trends and comparisons of deaths, recoveries, and confirmed cases. • Percentage distribution for quick insights into the pandemic's impact.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	High-performance computing needs	Standard workstation or cloud instance
Memory	RAM specifications	8 GB
Storage	Data and log storage	1 TB SSD
Software		
Frameworks	Tools for data preparation	Tableau
Libraries	Additional libraries	-
Development Environment	IDE, version control	-
Data		
Data	COVID-19 datasets and sources	Kaggle datasets (Link 1 , Link 2)