

## Project Planning Phase

Date	05 feb 2026
Team ID	LTVIP2026TMIDS77693
Project Name	Heart Disease Analysis
Maximum Marks	5 Marks

### 1. Introduction

The Project Planning Phase defines the roadmap for successfully completing the Heart Disease Data Analysis project. It includes identifying objectives, defining tasks, allocating responsibilities, estimating timelines, and planning resources required for implementation. Proper planning ensures systematic execution and timely delivery of the project.

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### 2. Project Objectives

- Analyze heart disease data to identify major risk factors.
  - Create 8–10 interactive visualizations using Tableau.
  - Develop a responsive dashboard and storyboard.
  - Integrate Tableau dashboard with a Flask web application.
  - Ensure performance optimization and usability.
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### 3. Scope of the Project

#### In Scope:

- Data collection and validation.
- Storing data in MySQL database.
- SQL operations for data preparation.
- Tableau dashboard development.
- Web integration using Flask.
- Performance testing and documentation.

#### Out of Scope:

- Machine learning prediction models.
  - Real-time patient monitoring systems.
  - Mobile application development.
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#### 4. Project Timeline (Proposed Schedule)

Phase	Activity	Duration
Week 1	Problem Understanding & Literature Survey	1 Week
Week 2	Data Collection & Database Setup	1 Week
Week 3	SQL Operations & Data Preparation	1 Week
Week 4	Tableau Visualization Development	1 Week
Week 5	Dashboard & Story Creation	1 Week
Week 6	Web Integration using Flask	1 Week
Week 7	Performance Testing & Optimization	1 Week
Week 8	Documentation & Project Demonstration	1 Week

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#### 5. Resource Planning

##### Hardware Requirements:

- Computer with minimum 8GB RAM
- Stable Internet Connection

##### Software Requirements:

- MySQL Database
  - MySQL Workbench
  - Tableau Desktop
  - Python
  - Flask Framework
  - Web Browser (Chrome/Edge)
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#### 6. Risk Management

Risk	Mitigation Strategy
Data inconsistency	Validate dataset before analysis
Database connection failure	Ensure proper DB configuration
Dashboard performance issues	Optimize SQL queries
Integration errors	Test embedding carefully
Time delay	Follow structured timeline

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## 7. Team Responsibilities (If Team Project)

Role	Responsibility
Data Analyst	Data preparation & SQL operations
Visualization Developer	Tableau dashboard creation
Web Developer	Flask integration
Documentation Lead	Report preparation & video explanation

(If individual project, mention: “All roles handled individually.”)

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## 8. Expected Deliverables

- Clean and structured database
  - 8–10 Tableau visualizations
  - Responsive dashboard
  - Storyboard presentation
  - Flask integrated web application
  - Project documentation
  - Project demonstration video
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## 9. Conclusion

The Project Planning Phase ensures systematic execution of the heart disease analysis project. By defining clear objectives, timelines, resources, and responsibilities, the project can be completed efficiently and effectively. Proper planning minimizes risks and ensures successful implementation.