

## Project Design Phase-I Solution Architecture

Date	02 November 2023
Team ID	592456
Project Name	Project – T20 Totalitarian: Mastering Score Predictions
Maximum Marks	4 Marks

### Solution Architecture:

The solution architecture for the "T20 Totalitarian: Mastering Score Predictions" project is a comprehensive framework that addresses various key aspects to design and implement an accurate T20 cricket score prediction system. It begins with requirements analysis, where project goals, essential features, and data sources are defined. This analysis guides the subsequent design and documentation of machine learning models and the web application's structure, ensuring clarity and effective collaboration among team members.

### Requirements Analysis:

Objective: Defining project goals and identifying essential features, data sources, and accuracy thresholds.

Relevance to the Project: Guides the subsequent design and development phases.

### Design and Documentation:

Objective: Create detailed specifications and documentation for machine learning models and the web application.

Relevance to the Project: Ensures clarity and facilitates effective collaboration among team members.

### Technology Selection:

Objective: Choose the right tools and libraries for machine learning and web development.

Relevance to the Project: The foundation for successful implementation.

### Integration:

Objective: Ensure seamless integration with data sources and external APIs for enhanced score predictions.

Relevance to the Project: Enhances the prediction accuracy.

## **Scalability and Performance:**

Objective: Address system's capacity to handle increasing workloads while maintaining performance.

Relevance to the Project: Crucial due to the high volume of T20 matches.

## **Security:**

Objective: Implement security measures to protect user data and maintain system integrity.

Relevance to the Project: Maintains user trust and system reliability.

## **Compliance:**

Objective: Ensure adherence to industry standards, regulations, and best practices.

Relevance to the Project: Avoids legal and ethical issues.

## **Cost and Resource Management:**

Objective: Manage costs and allocate human and infrastructure resources efficiently.

Relevance to the Project: Ensures project sustainability and profitability.

