

**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	03 November 2023
Team ID	592456
Project Name	Project - T20 Totalitarian: Mastering Score Predictions
Maximum Marks	4 Marks

**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1	User Interface	How users interact with the application	HTML, CSS, Flask,Python
2	Application Logic-1	Logic for T20 score prediction process	Python
3	Application Logic-2	Speech-to-Text service for data input	IBM Watson Speech to Text (STT) service
4	Application Logic-3	Chatbot for user interactions	IBM Watson Assistant
5	Database	Data storage and configuration	MySQL, NoSQL (e.g., MongoDB)
6	Cloud Database	Cloud-based database service	IBM DB2, IBM Cloudant
7	File Storage	File storage requirements	IBM Block Storage or Local Filesystem
8	External API-1	Weather data retrieval for match conditions	IBM Weather API
9	External API-2	External data retrieval for additional features	Aadhar API
10	Machine Learning Model	Predicting T20 cricket scores	Scikit-Learn, Python
11	Infrastructure (Server / Cloud)	Application deployment location	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristic**

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Utilized open-source frameworks for development	Scikit-Learn, TensorFlow, React.js, Express, Node.js, etc.
2	Security Implementations	Implemented security and access controls	Secure communication protocols, user authentication, data encryption, AWS IAM Controls, etc.
3	Scalable Architecture	Scalability justification and architecture approach	Microservices, containerization (e.g., Docker), cloud-based infrastructure (e.g., AWS, Heroku)