TECHNOLOGY STACK

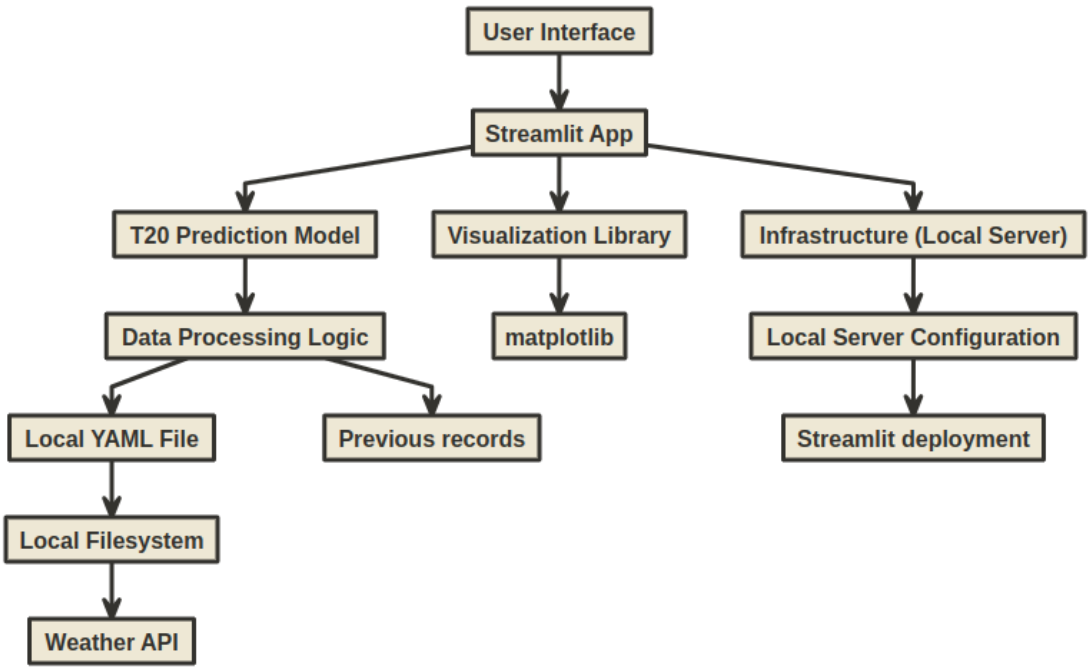

Table-1: Components & Technologies

S.No	Component	Description	Technology
1	User Interface	Streamlit app for interacting with the T20 model	Streamlit, HTML, CSS, Python
2	Machine Learning Model	T20 prediction model	Python, Scikit-Learn, Pandas
3	Data Processing Logic	Logic for processing input data for the T20 model	Python, NumPy
4	Database	Storage for historical T20 match data (Downloaded YAML file)	Local YAML file
5	File Storage	Storage for model weights and configurations	Local Filesystem
6	Visualization Library	Library for visualizing cricket match and model output	Matplotlib, Plotly, or similar
7	Infrastructure (Server/Cloud)	Deployment of Streamlit app on local system	Local Server Configuration: Streamlit server

Table-2: Application Characteristics

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Usage of open-source frameworks for the T20 model	Scikit-Learn, NumPy
2	Security Implementations	Implementation of security measures for the app	SSL/TLS, Authentication mechanisms
3	Scalable Architecture	Scalability justification for T20 model application	Local deployment, no need for scalability considerations
4	Availability	Availability justification for the Streamlit app	Local deployment, no need for high availability setup
5	Performance	Design considerations for app performance	Caching, Local processing