

Technology Stack

Table 1: Components & Technologies

S.No	Component	Description	Technology
1	User Interface	User interacts with system	HTML, CSS, JS, Bootstrap
2	Application Logic-1	Core processing logic	Python Flask
3	Application Logic-2	Analytics processing	Tableau Integration
4	Application Logic-3	API handling	REST APIs
5	Database	Stores project data	MySQL
6	Cloud Database	Cloud storage	Firebase / Cloud SQL
7	File Storage	Stores assets/images	Local / Cloud Storage
8	External API-1	Map or location API	Google Maps API
9	External API-2	Data API	UNESCO Dataset API
10	ML Model	Prediction/analysis	Scikit-learn
11	Infrastructure	Deployment environment	Localhost / Cloud

Table 2: Application Characteristics

S.No	Characteristics	Description	Technology
1	Open Source Frameworks	Frameworks used	Flask, Bootstrap
2	Security	Protection methods	Authentication, HTTPS
3	Scalable Architecture	Handles growth	Modular Architecture
4	Availability	System uptime	Cloud Deployment
5	Performance	Speed optimization	Caching, CDN

Generative AI System Architecture

