

Project Planning

Technology Stack (Architecture & Stack)

Date	27 October 2023
Team ID	Team-592621
Project Name	World Happiness Report
Maximum Marks	4 Marks

Technical Architecture:

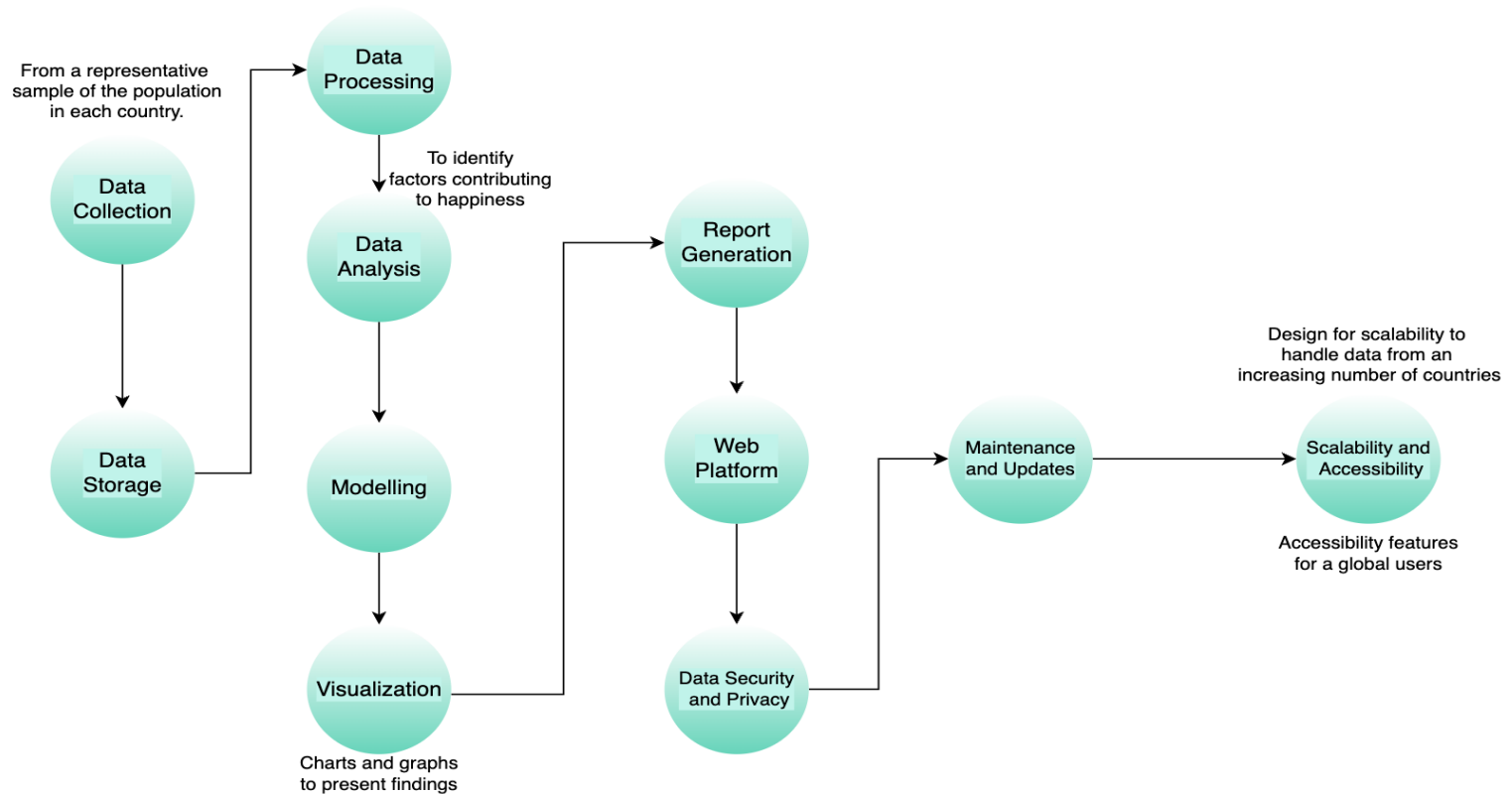


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	To build the front end of the product through which the users will interact with the system.	HTML, CSS, JavaScript / React Js etc.
2.	Application Logic-1	The process involves making predictions in the background using either a cloud or local system, and allowing users to interact with the predictions through a web interface.	Python/ flask
5.	Database	Data Type, Configurations etc.	Kaggle
6.	Cloud Database	Database Service on Cloud	Flask
7.	File Storage	File storage requirements	Local device
8.	External API-1	To fetch the data from kaggle	kaggle API
10.	Machine Learning Model	Purpose of Machine Learning Model	Regression and Classification Models
11.	Infrastructure (Server / Cloud)	Local server configuration and to deploy an application to the cloud	Flask, Google

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask
2.	Security Implementations	To incorporate security measures to protect the system from unwanted threats.	Https
3.	Scalable Architecture	To ensure the future scaling of the System when the traffic or demand is more.	google cloud
4.	Availability	To ensure the availability of the system, it's crucial to use a reliable and redundant infrastructure.	google cloud
5.	Performance	Continuously fine-tune the model to adapt to changing market conditions and improve prediction accuracy.	Metrics

