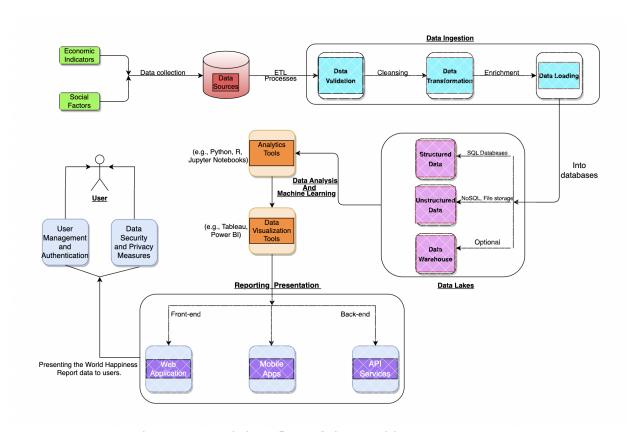
Project Design Phase Solution Architecture

Date	18 Oct 2023
Team ID	Team-592621
Project Name	World Happiness Report
Maximum Marks	5 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.



Architecture and data flow of the World Happiness Report

This diagram provides an overview of the key components in the World Happiness Report system:

- ❖ Data Sources: This is where data from various surveys, economic indicators, and social factors are collected.
- Data Ingestion: The ETL (Extract, Transform, Load) processes for data validation, cleansing, transformation, and loading into databases.
- ❖ Data Storage: Structured and unstructured data is stored in databases and data lakes for analysis.
- ❖ Data Analysis & Machine Learning: This layer includes tools and frameworks for performing data analysis and machine learning on the stored data.
- Reporting and Presentation: Web applications, APIs, and mobile apps for presenting the World Happiness Report data to users.
- User Access and Authentication: User management and authentication to control access to the data.
- Security and Compliance: Ensures data security and compliance with privacy regulations.