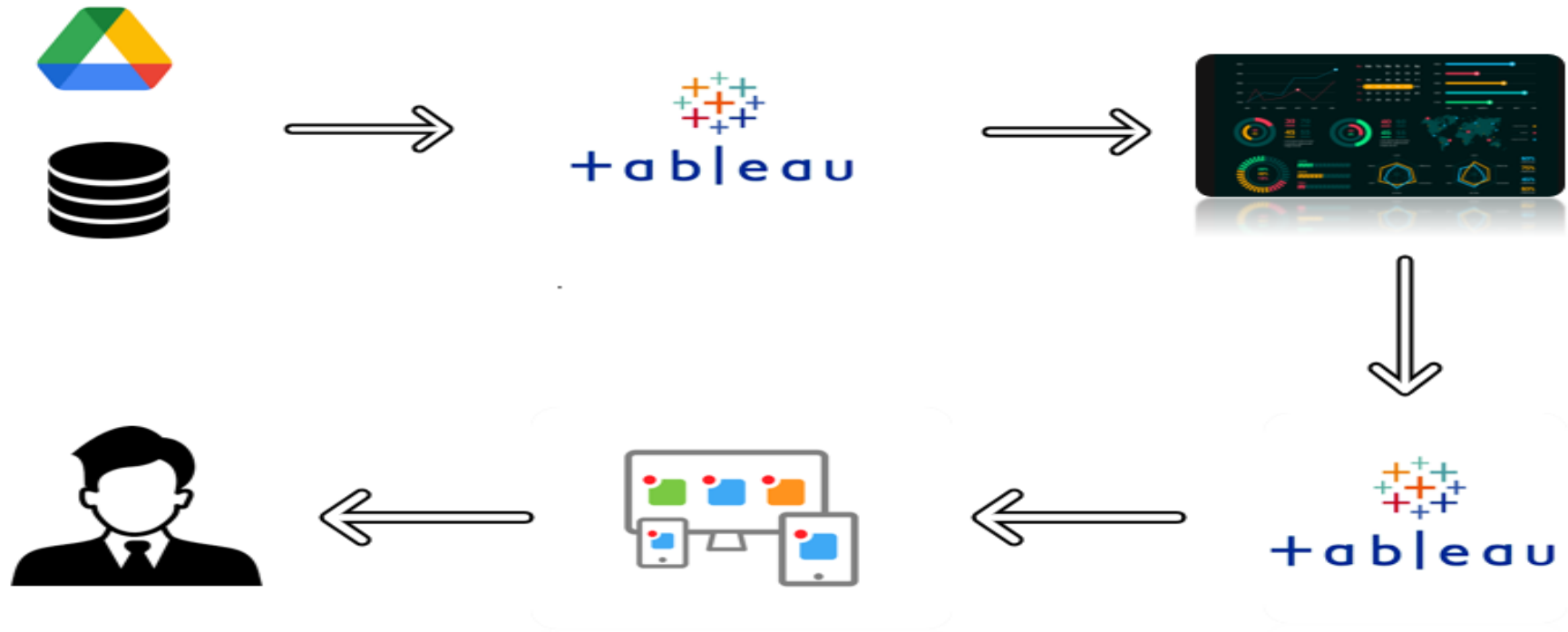


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	03 October 2022
Team ID	Team-591186
Project Name	Unveiling Market Insights: Analysing Spending Behaviour And Identifying Opportunities For Growth
Maximum Marks	4 Marks

**Technical Architecture:**

**Project - Unveiling Market Insights Analyzing Spending Behavior and Identifying Opportunities for Growth**



Guidelines:

- Include all the processes (As an application logic / Technology Block)
- Provide infrastructural demarcation (Local / Cloud)
- Indicate external interfaces (third party API's etc.)
- Indicate Data Storage components / services
- Indicate interface to machine learning models (if applicable)

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

S.No	Component	Description	Technology
1.	User Interface	How user interacts with the web application	HTML, CSS, JavaScript ,Python,Flask etc.
2.	Application Logic-1	Logic for a process in the application	Javascript
3.	Database	Data Type, Configurations etc.	MySQL
4.	Dashboards and story	Bringing out insights from the data	Tableau
10.	Deployment	deploying the web app so that users can access it from their browsers	pythonanywhere
11.	publishing dashboards	publishing the dashboards so that others can see	Tableau public

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Security Implementations	Dataset is being protected using user credentials on MySQL server.	password verification
2.	Scalable Architecture	scaling the resources bases on demand	Cloud-based infrastructure

S.No	Characteristics	Description	Technology
3.	Availability	High availability achieved through load balancers and distributed servers.	Load balancers, Distributed servers
4.	Performance	Designed for optimal performance, considering requests per second, cache usage, and CDN integration.	Load balancing, Caching mechanisms, CDN integration

#### References:

<https://c4model.com/>

<https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/>

<https://www.ibm.com/cloud/architecture>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>