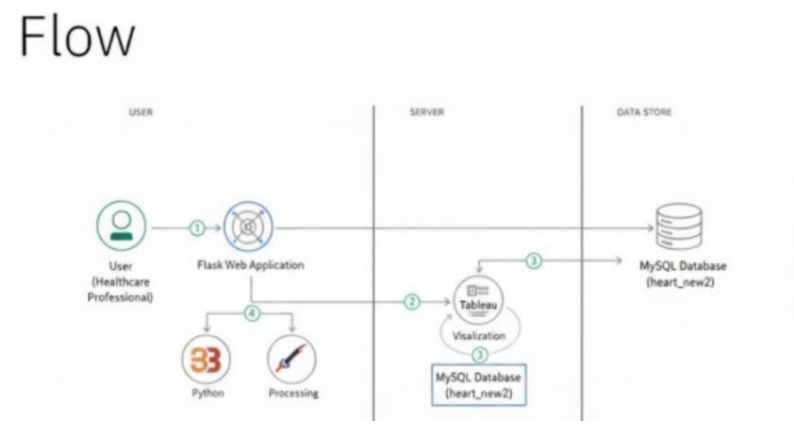
Project Design Phase-II
Data Flow Diagram & User Stories

Date	14 Feb 2026
Team ID	LTVIP2026TMIDS73343
Project Name	Heart Disease Analysis
Maximum Marks	4 Marks

Data Flow Diagrams:



Data Flow Steps

1. User Input: The Healthcare Professional enters risk parameters like Age, BMI, and Smoking status into the Flask web interface.
2. Request Processing: The Flask Web Application receives the request and triggers the Python back-end to process the query.
3. Data Retrieval: The system connects to the MySQL Database to fetch relevant patient records from the heart_data table.
4. Visualization Generation: The processed data is sent to Tableau, which generates interactive charts and story scenes.
5. Final Display: The web server displays the completed visualizations and heart risk trends back to the user's browser.

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance
Doctor	Data Filtering	USN-1	As a doctor, I want to filter by smoking status.	High-risk smo highlighted in
Researcher	Visual Analysis	USN-2	As a researcher, I want to see BMI vs heart disease trends.	Interactive sc loads from My
Patient	Risk Dashboard	USN-3	As a patient, I want to view my health risk on a simple UI.	Clinical data i without compl
Admin	Data Management	USN-4	As an admin, I want to update the heart_data dataset.	New records Flask app inst