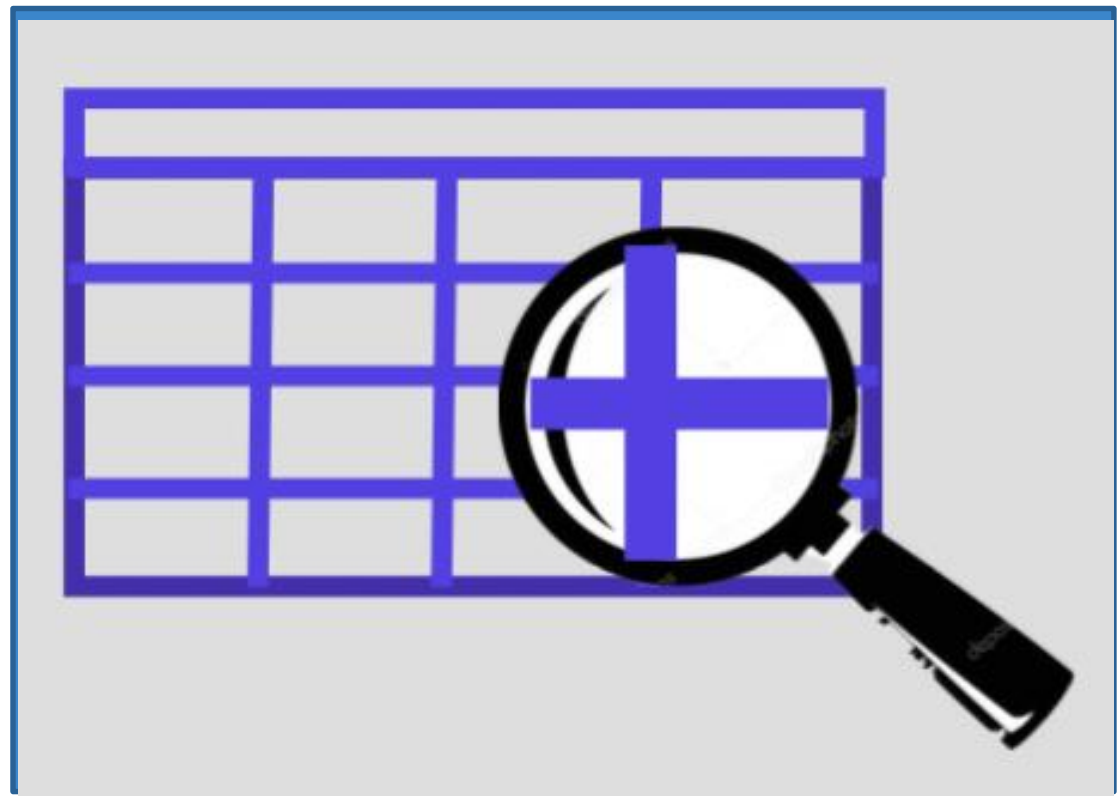


# DataViz



Li Yan, Joel, Tian Jie, Ye Qing, Jeremy  
CS5224 Cloud Computing  
AY2017/18 Semester 2  
Department of Computer Science  
National University of Singapore

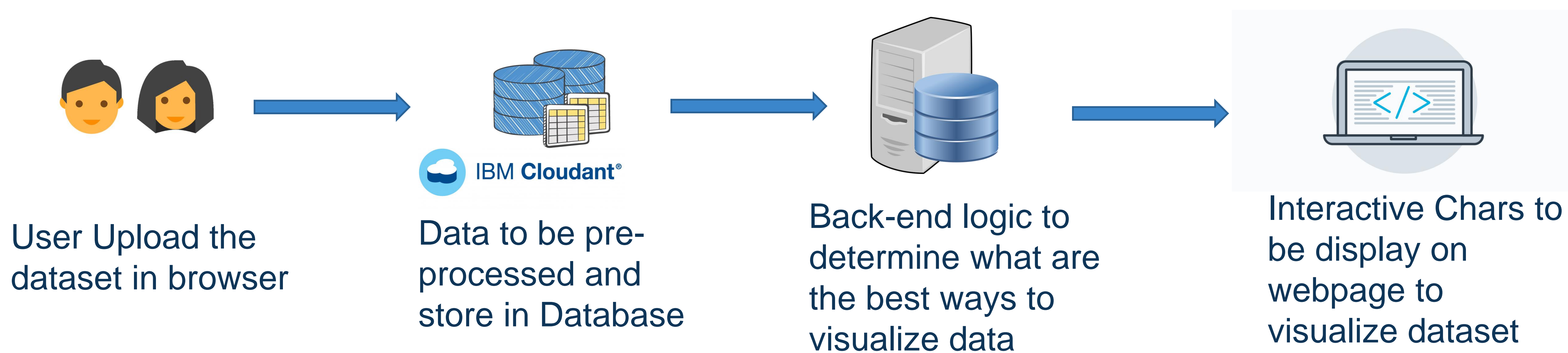


## Motivation and Objective

- Motivations: For people who do not have prior knowledge for data analytics, it might be difficult for them to handle the set of data effectively and visualize them with suitable charts. We are targeted to provide a smart data visualization solution for less experienced people to understand the data quickly.
- Objective: To provide a low cost solution for people with minimum data analyst background to get insights from a large data set and find out the best way to visualize the data.
- Comparison with existing services: Comparing with the available data analyze SaaS, ours are more targeted to people with minimum experience in data analyze. (Visualize everything without user interaction needed)

## Approach

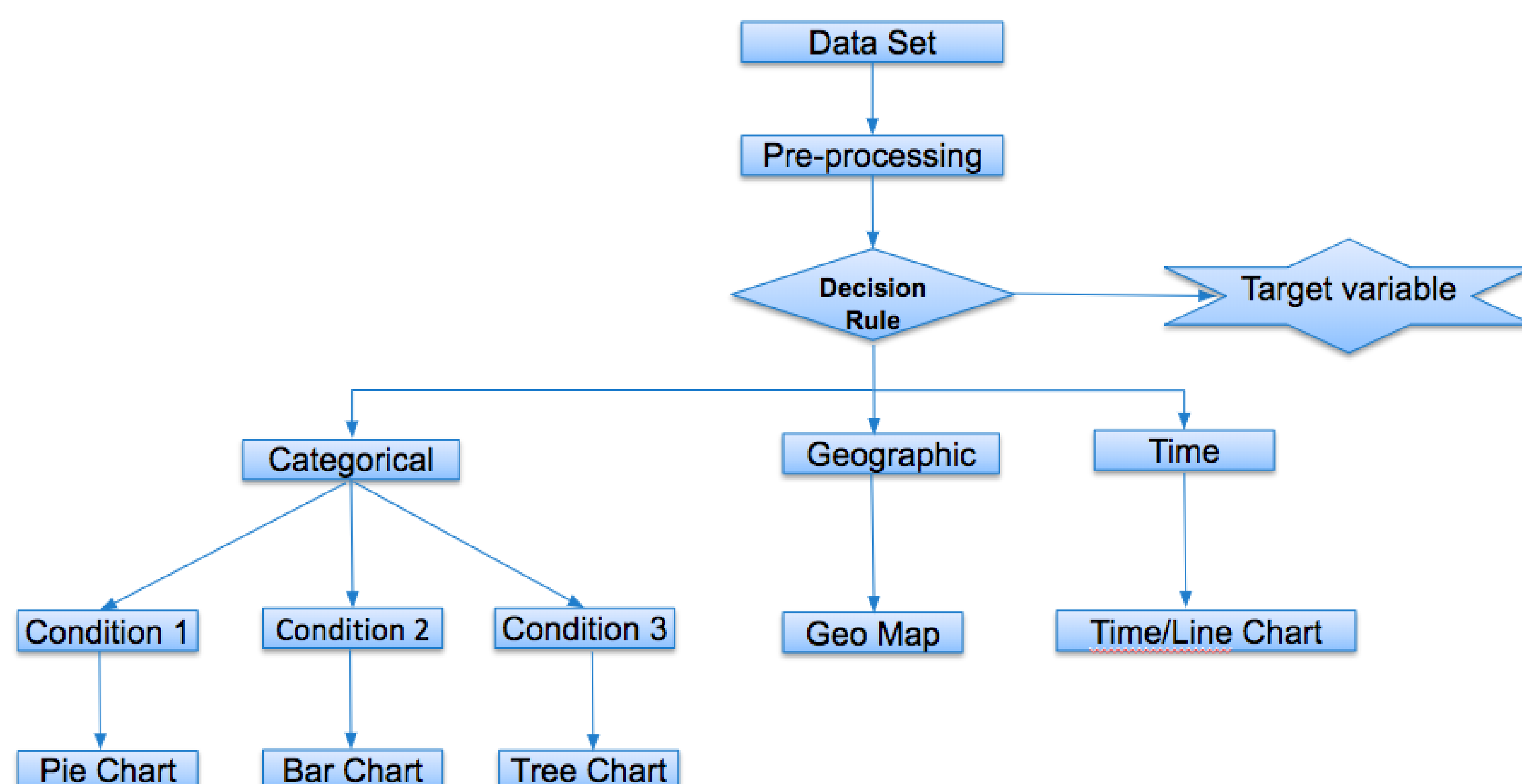
- We decide to use Bluemix to host our website. Adopt PaaS services on Bluemix (Node.js, IBM Cloudant).
- Why PaaS? – All the dependencies are set-up, faster development.
- Workflow:



## Implementation

- Why use Cloud Computing to host our services?
  - 1) No high initial investment costs
  - 2) High Elasticity, easier to expand(scalability)
  - 3) Broad Network Access.

- Decision Tree:  
Decide on the best way to visualize the data set.



- Type of technology used for the project:

- Front End Technologies:



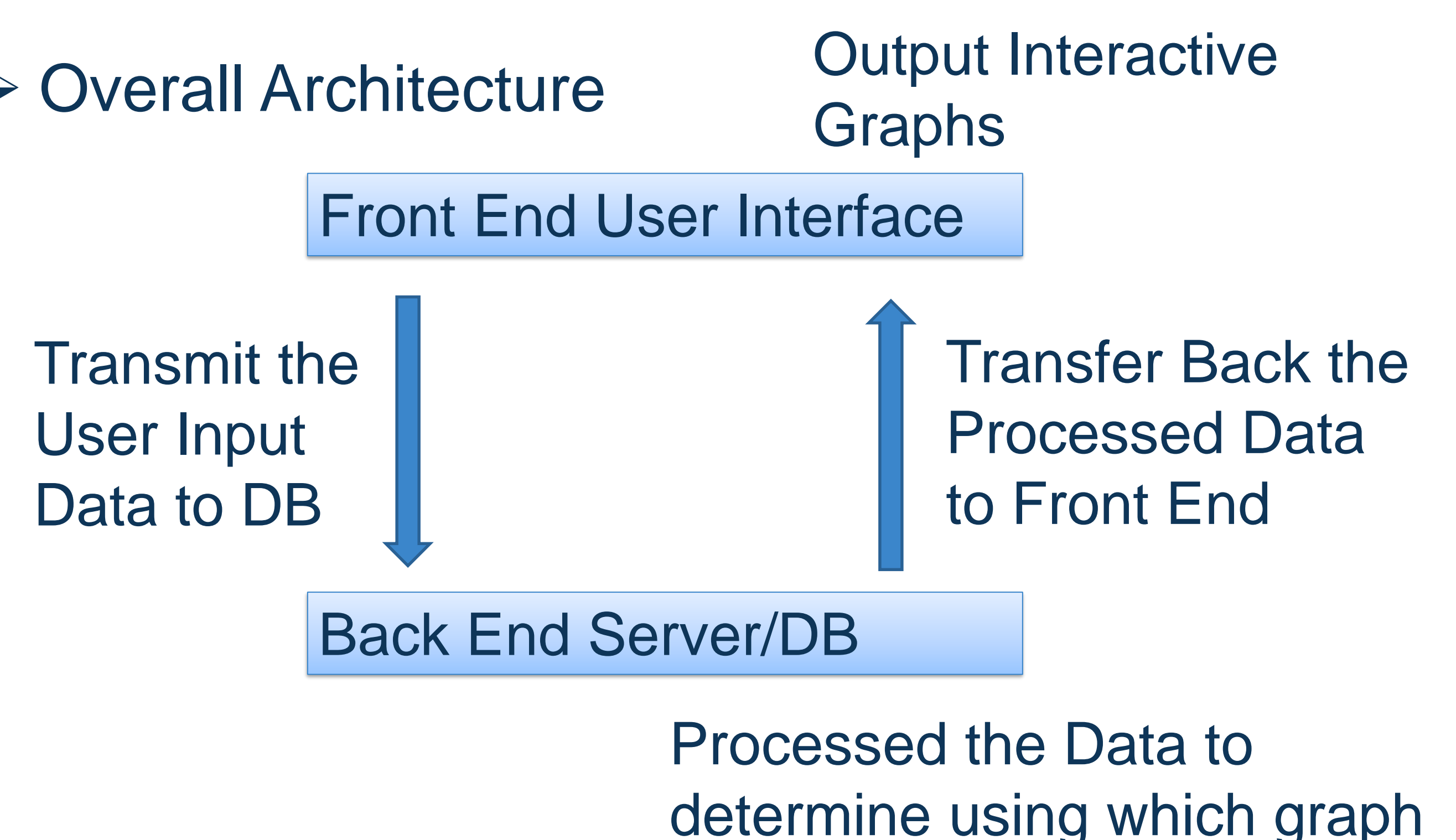
React



- Back End Technologies:



- Overall Architecture



## Revenue Model

1. Pay as you go, no subscription fees.
2. Advertisement based on the type of data user usually upload for analyzing.
3. Premium Services are available if users would like to pay a subscription fee.