

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

|                      |  |
|----------------------|--|
| <b>Date</b>          | <b>17 October 2022</b>                       |
| <b>Team ID</b>       | <b>PNT2022TMID05278</b>                      |
| <b>Project Name</b>  | <b>Project - Global Sales Data Analytics</b> |
| <b>Maximum Marks</b> | <b>4 Marks</b>                               |

Technical Architecture:

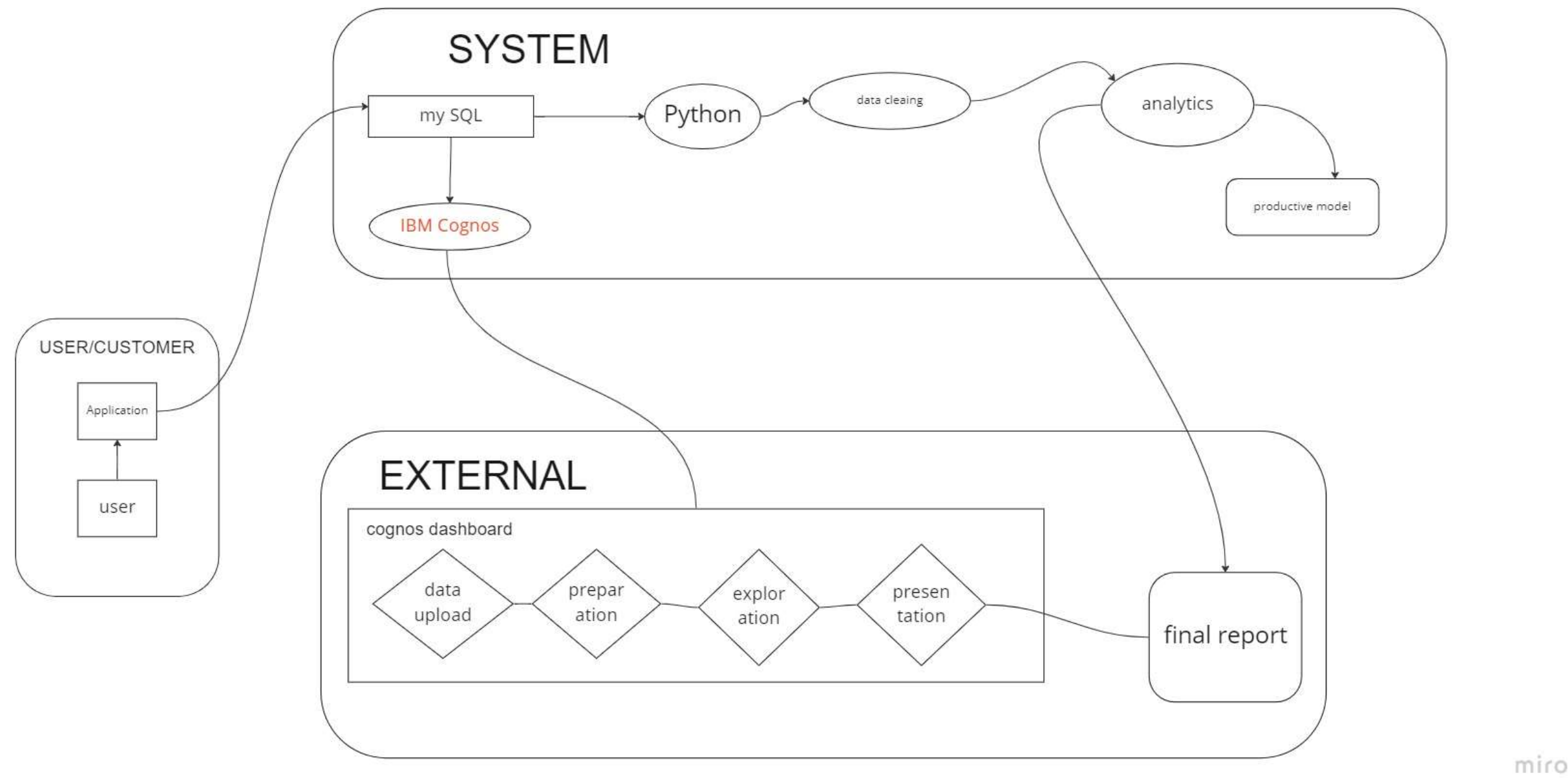


Table-1 : Components & Technologies:

| S. No | Component                      | Description  | Technology             |
|-------|--------------------------------|--|------------------------|
| 1.    | User Interface                 | How user interacts with application e.g.<br>Web UI, Mobile App, Chatbot etc. | IBM Cognos             |
| 2.    | Storage Infrastructure (Cloud) | Customer sales data is uploaded in cloud through<br>interface                | IBM Cloud              |
| 3.    | Working with Dataset           | Uploading, Cleaning and Processing dataset                                   | IBM Cognos + IBM Cloud |

|    |                    |  |                         |
|----|--------------------|--|-------------------------|
| 4. | Data Exploration   | Uploaded data is explored to identify trends                                   | IBM Cognos              |
| 5. | Data Visualization | Multiple types of graphs are shown according to customer data and requirements | IBM Cognos Dashboard    |
| 6. | Cloud Database     | Database Service on Cloud  | IBM DB2, IBM Cloud etc. |
| 7. | Viewing Data       | User logs in to application to view visualizations for uploaded data           | IBM Cognos Dashboard    |

Table-2: Application Characteristics:

| S. No | Characteristics          | Description  | Technology  |
|-------|--------------------------|--|---|
| 1.    | Open-Source Frameworks   | List the open-source frameworks used   | IBM Cognos, IBM Cloud, IBM Watson                             |
| 2.    | Security Implementations | Secure user information and data   | e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.           |
| 3.    | Scalable Architecture    | Supports various data sizes  | MS Excel Data set, Kaggle, Google drive                       |
| 4.    | Availability             | Multi page layout providing various visualizations of data and provide full support irrespective of platform and device specifications | IBM cognos analytics  |
| 5.    | Performance              | Withstand huge data and process them without crashing  | Presenting Visualization , Data story in IBM cognos analytics |

