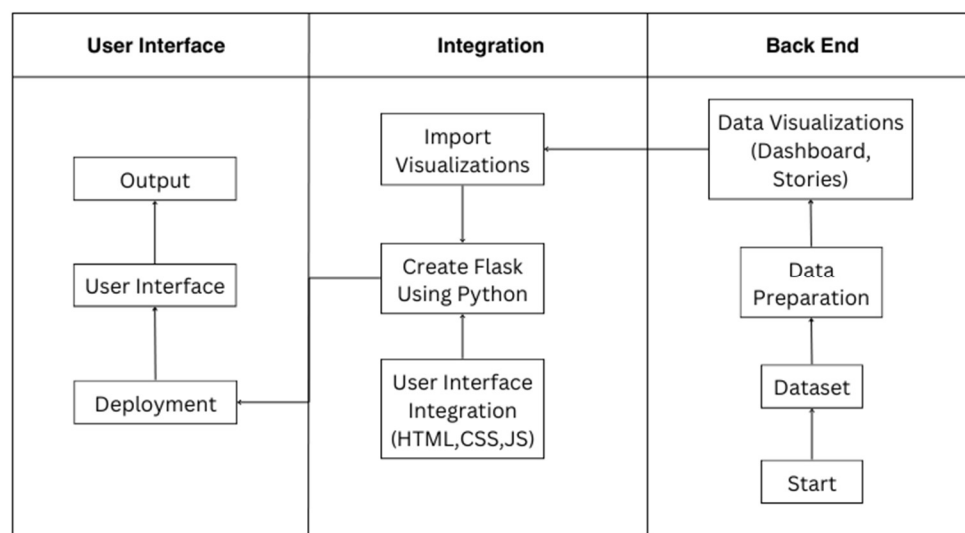


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	28 October 2023
Team ID	
Project Name	A Comprehensive Analysis of the IT Sector's salaries and roles
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



Guidelines:

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

Table-1 : Components & Technologies:

S.No.	Component	Description	Technology
1.	Data Collection	Gather and collect data from various sources	SQL, CSV, Web scraping tools
2.	Data Preparation	Clean and transform data for analysis	Excel
3.	Data Visualization	Create interactive visualizations and dashboards	Tableau Desktop
4.	Data Hosting	Host data on a cloud platform (if necessary)	AWS, Google Cloud, Azure
5.	User Interface	Create a webpage to display Tableau dashboards	HTML, CSS, JavaScript, Front-end frameworks (React, Angular, Vue.js)
6.	Back-End (if necessary)	Develop a back-end for web functionality	Node.js with Express, Python with Django, Ruby on Rails, etc.
7.	Database	Store web-related data (if required)	MySQL

Table-2: Application Characteristics:

S.No.	Characteristics	Description	Technology
1.	User-Friendly	Easy to use and navigate for a wide audience	UI/UX design, Responsive UI
2.	Interactive	Engages users with dynamic elements	JavaScript, Front-end frameworks
3.	Data Visualization	Presents insights through visualizations	Tableau
4.	Responsive Design	Adapts to different devices and screen sizes	Responsive CSS frameworks

References:

<https://c4model.com/>

<https://www.leanix.net/en/wiki/ea/technical-architecture>

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

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