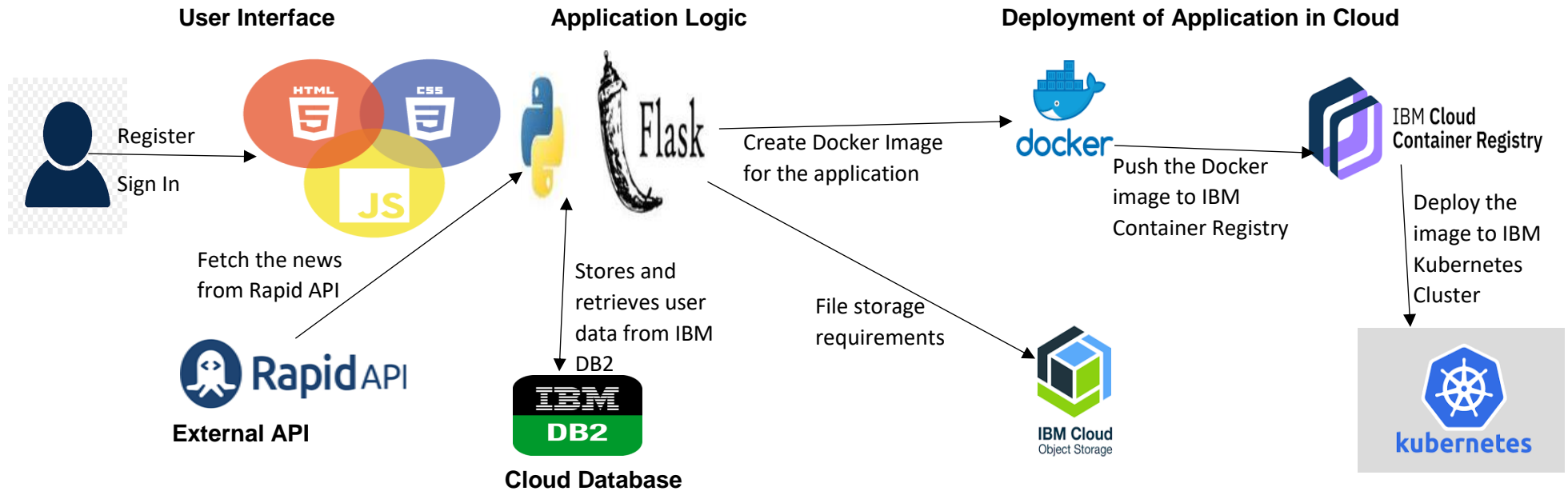


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID50731
Project Name	News Tracker Application
Maximum Marks	4 Marks

Technology Architecture:



S.No	Component	Description	Technology
1.	User Interface	The user interacts with the application through Web UI i.e., Web application	HTML, CSS, JavaScript
2.	Application Logic-1	Sign up/Register in the application using their personal details	JavaScript, Python, Flask
3.	Application Logic-2	Login into the application through username and password	JavaScript, Python, Flask
4.	Application Logic-3	Displays the news in the dash board of the application by fetching news from Rapid API	Python, Flask
5.	Database	The user details can be stored and retrieved from the database.	IBM DB2
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File storage requirements	IBM Object Storage
8.	External API	The news can be fetched from the news API	Rapid API
9.	Infrastructure (Server / Cloud)	Application Deployment on Cloud Cloud Server Configuration : Kubernetes	Docker, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	A micro web framework implemented on Werkzeug and Jinja2 is used for building this web application	Flask
2.	Security Implementations	An individual user can create a own username and password	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	The Public cloud infrastructure architecture illustrates the IBM Cloud platform,	IBM Cloud

S.No	Characteristics	Description	Technology
		which can be used to support scalable, secure, and resilient workloads..	
4.	Availability	The application can access the application from anywhere and at anytime on the Internet. It is portable and available for all devices	Kubernetes
5.	Performance	When user log in to the application, the response of the application should be fast. By clicking the buttons it easily redirected to the next page without any difficulties	HTML, CSS, JavaScript