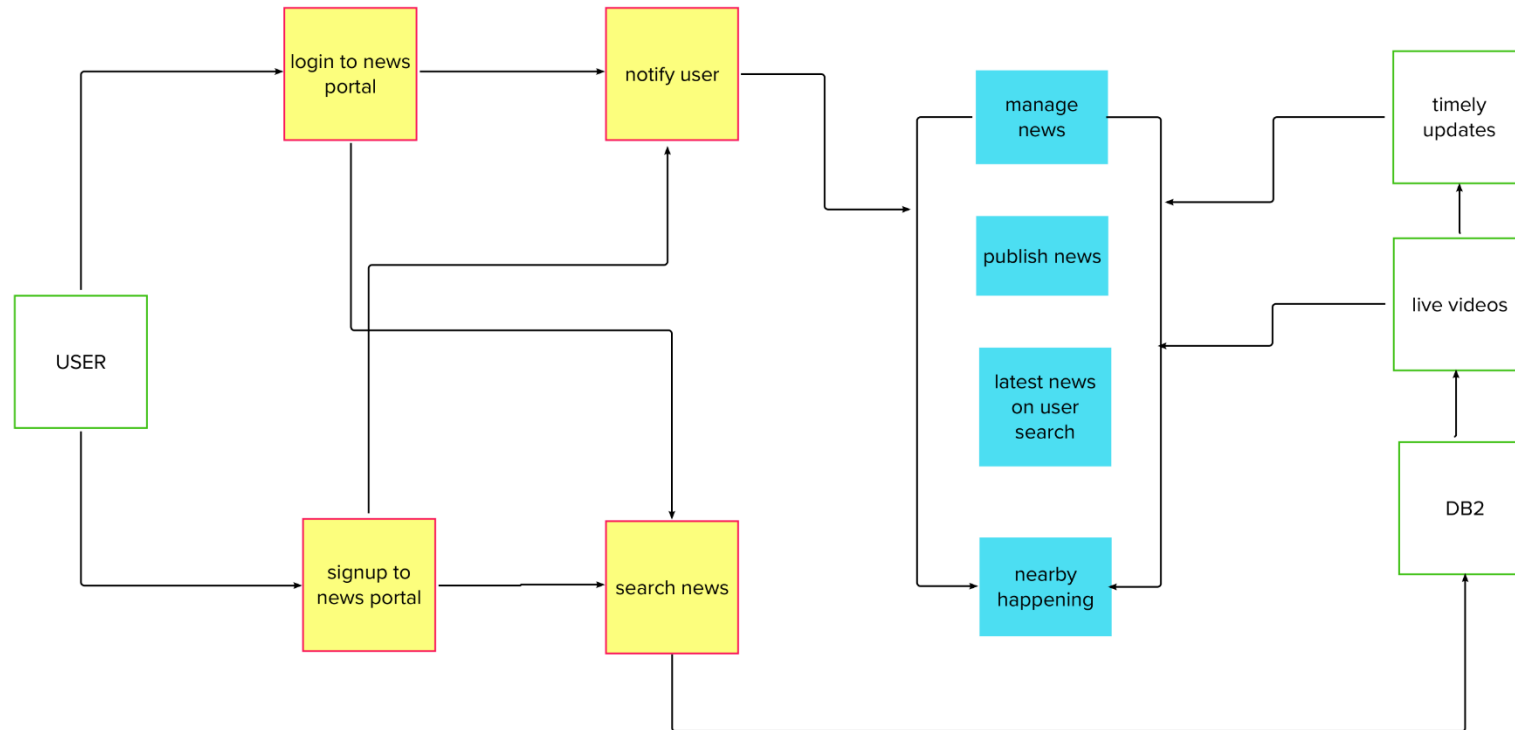


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID06749
Project Name	Project – News Tracker Application
Maximum Marks	4 Marks

### Technical Architecture:



News Tracker Application  
Solution Architecture

**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	User interacts with the application using web development, which is used to get the information needed for the user.	HTML, CSS, JavaScript etc.
2.	Application Logic	The Logic depends on the extraction news from the database	Python
3.	Database	Data type , configuration etc.	MYSQL, NOSQL, etc.
4.	Cloud database	Database service on cloud	IBM DB2, IBM Cloudnet etc..
5.	File storage	File storage requirements	IBM Cloud Storage or Other Storage Service or Local Filesystem.
6.	Infrastructure (server/cloud)	Application deployment on local system / cloud local server configuration : Docker Cloud server configuration : Kubernetes	Local, Cloud Foundry, Kubernetes, etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Mail API, etc.
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System local server configuration : Docker Cloud server configuration : Kubernetes	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

<b>S.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	A software for which the original source code is made freely available and may be redistributed and modified according to the requirement of the user	Python
2.	Security Implementations	Cloud Security Posture Management (CSPM), Detect cloud security and compliance configuration risk, anomalous activity, vulnerabilities, and misconfigurations.	Built – in encryption, BYOK
3.	Scalable Architecture	Python is one of the pioneers of programming languages that developers can use to do all the scaling work. To improve scalability, you can enable or disable services run by the dispatcher on individual servers to balance the load for a given computer by request type.	Technology used in the architecture is that with the Python and the IBM cloud.
4.	Availability	Availability is the ability of a system to withstand or recover from exceptional situations, such as a computer failure. IBM Cloud is on-demand access, via the internet, to computing resources applications, servers (physical servers and virtual servers), data storage, development tools, networking capabilities, and more hosted at a remote data centre managed by a cloud services provider (or CSP).	Technology used are the IBM cloud and the database.

S.No	Characteristics	Description	Technology
5.	Performance	DB2 is a database product from IBM. It is a Relational Database Management System (RDBMS). DB2 is designed to store, analyze and retrieve the data efficiently. DB2 product is extended with the support of object-oriented features and non-relational structures with XML.	Technology used are the python, cloud and IBM db2.