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

Date	14 November 2022
Team ID	PNT2022TMID51805
Project Name	News Tracker Application
Maximum Marks	4 Marks
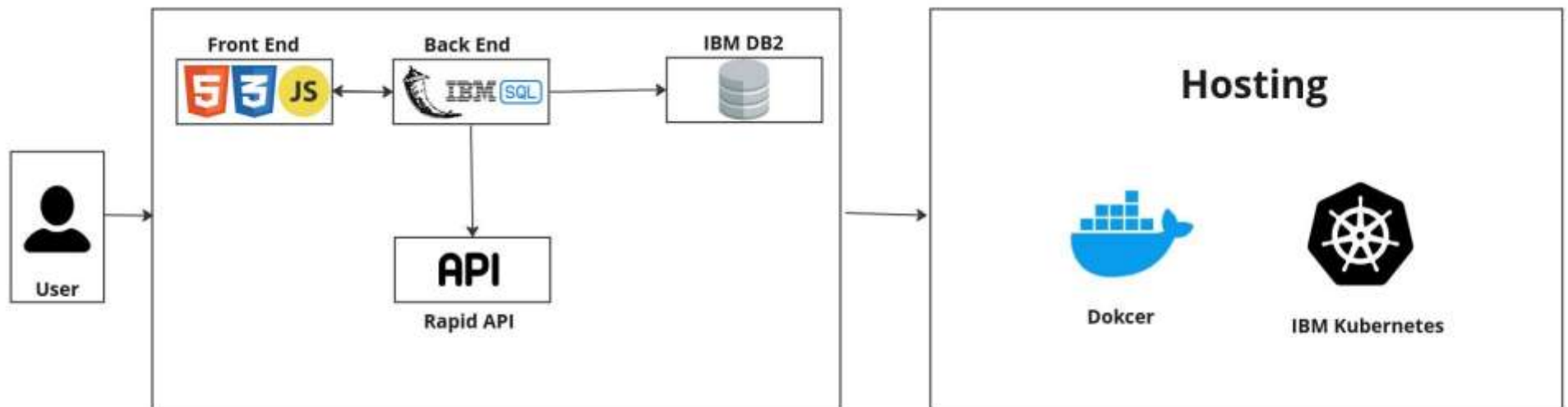
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
2.	User registeration	Registeration of the user to the app	Flask, Javascript
3.	User Verification	Verification of the email	Sendgrid
4.	User Login	Logs in the user to the App	Flask, Javascript
5.	Database	Stores the user data in the database	IBM DB2
6.	External API	Fetch news from the API	News API from rapid API
7.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	Docker, IBM Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Used for developing the backend	Flask
2.	Security Implementations	Encrypts the user password,generate unique code for email verification,generate unique token for user login stored in cookie	SHA-256, Encryptions
3.	Scalable Architecture	Coded in such a way such that it can scaled and reused later for upgrade	Clean code practices
4.	Availability	The app should be available and loadable in all devices	CSS, IBM hosting

S.No	Characteristics	Description	Technology
5.	Performance	The app is designed in such a way that it uses small size images and less animation with minimalistic UI and UX	HTML,CSS,Javascript

References:

https://flask.palletsprojects.com/en/2.2.x/

https://docs.sendgrid.com/

https://www.ibm.com/support/pages/db2-database-product-documentation