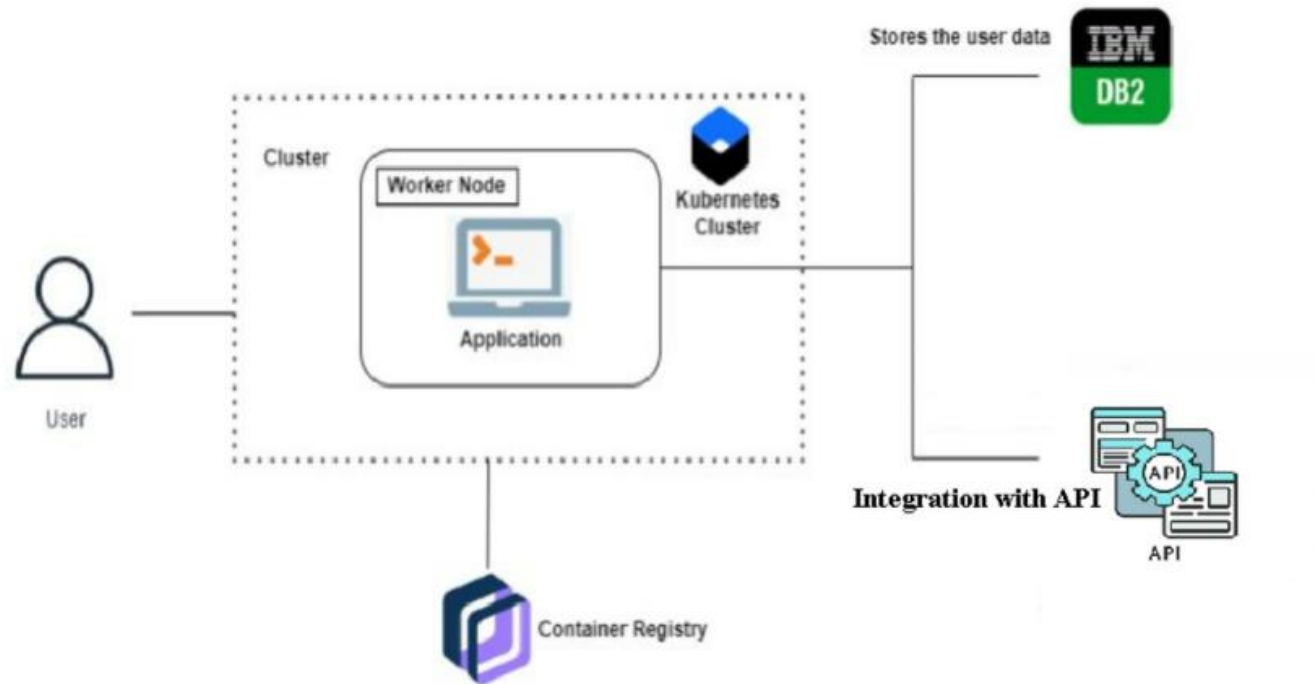


**Project Design Phase-II Technology  
Stack (Architecture & Stack)**

Date	13May2023
Team ID	NM2023TMID19980
Project Name	Navigating the complex world of auto insurance: A vehicle cost analysis for better decision making.

**Technology Architecture:**



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

S.No	Component	Description	Technology

2.	Cloud Computing	<ul style="list-style-type: none"> <li>• Computes the data from sensor</li> <li>• Real time data analysis</li> </ul>	Amazon Web Services(AWS),Microsoft Azure,Google Cloud.
3.	Machine Learning	<ul style="list-style-type: none"> <li>• Learn from recorded data and make predictions about future events.</li> <li>• Detect sudden changes in pressure,flow rate, temperature</li> </ul>	Python,Tensor flow, Apache
4.	Data Analytics	<ul style="list-style-type: none"> <li>• Analyse the data and provide alerts</li> </ul>	Python,Tensor flow, Apache
5.	Mobile Application Development (User interface)	<ul style="list-style-type: none"> <li>• Convenient and easy access for hospital staff to monitor the system</li> <li>• Respond to alerts remotely</li> </ul>	Java, Kotlin, AWS, React Native ,Flutter
6.	Web Devleopment (User interface)	<ul style="list-style-type: none"> <li>• User friendly interface</li> <li>• Easy Maintenance</li> </ul>	React.js , vue.js, Angular,HTML,CSS,Java Script

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	<ul style="list-style-type: none"><li>• Source code for the frameworks is openly available</li><li>• Developers can save time and effort</li><li>• Pre built , reusable software components</li></ul>	MongoDB, React.js, Node.js,LTensor flow
2.	Security Implementations	<ul style="list-style-type: none"><li>• Ensure system security</li><li>• Encrypted Data</li><li>• Protect from cyber attacks</li></ul>	User Authentication,Firewall,Data Encryption
3.	Scalable Architecture	<ul style="list-style-type: none"><li>• Ability to be flexible and adaptable to the changing hospital environments</li></ul>	Sensors,Remote monitoring,Mobile app
4.	Availability	<ul style="list-style-type: none"><li>• Uses widely available components for constructing this system</li></ul>	Sensors,cloud platforms
5.	Performance	<ul style="list-style-type: none"><li>• Overall design performance is effective based on the services provided by the developers</li></ul>	High quality sensors,Machine learning

