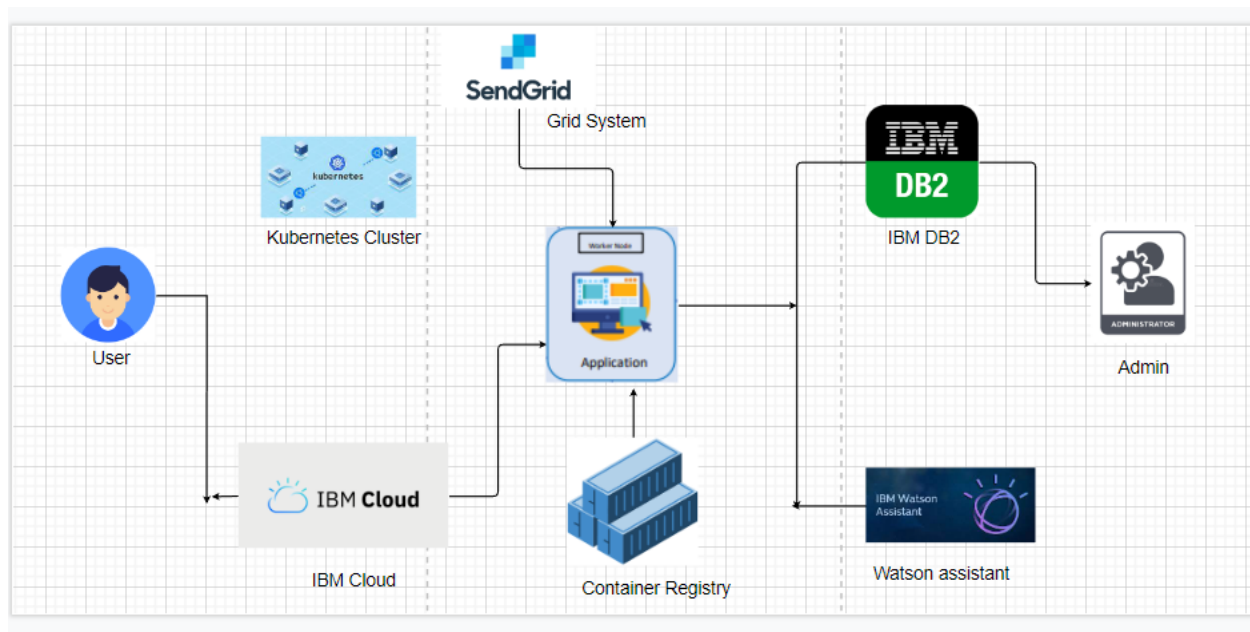


## Project Design Phase-II Technology Stack (Architecture & Stack)

|               |                                  |
|---------------|----------------------------------|
| Date          | 03 October 2022                  |
| Team ID       | PNT2022TMID01237                 |
| Project Name  | Smart fashion recommender system |
| Maximum Marks | 4 Marks                          |

### Technical Architecture:



| S.No | Component           | Description   | Technology   |
|------|---------------------|---|--|
| 1.   | User Interface      | user interacts with application e.g. Web UI, Mobile App, Chatbot etc.   | HTML, CSS, JavaScript / Angular Js / React Js etc. |
| 2.   | Requests            | How web application communicates with server  | Javascript / Python                                |
| 3.   | Application Logic-2 | The application includes login where user can login with their credentials and also supports registration where new users can be added. | Python   |

|    |                                 |   |  |
|----|---------------------------------|---|--|
| 4. | Watson chatbot                  | The application includes a chatbot which helps the user in recommendation of products.  | IBM Watson Assistant                   |
| 5. | IBM cloud DB2                   | Details of customers and products are stored.<br>Data types are String, Numeric, Date, time, and timestamp distinct types.<br>Act_ sortmem_ limit, auto_ del_ rec _obj, auto_ maint Configuration | MySQL, NoSQL, etc.                     |
| 6. | Cloud Db2                       | A fully managed cloud database with AI capabilities that keep our website running 24*7  | IBM DB2, IBM Cloudant etc.             |
| 7. | Kubernetes                      | Manage the complete process in the stable state If any software crash it automatically restart the work   | Kubernetes                             |
| 8. | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud<br>Local Server Configuration:<br>Cloud Server Configuration :   | Local, Cloud Foundry, Kubernetes, etc. |

**Table-2: Application Characteristics:**

| S.No | Characteristics          | Description   | Technology                         |
|------|--------------------------|---|------------------------------------|
| 1.   | Open-Source Frameworks   | Cloud Stack, Eucalyptus. Open Nebula, App Scale, Docker   | Docker                             |
| 2.   | Security Implementations | Authentication and password management Accountability to authorize and monitor the use anonymous accounts and to remove | Encryptions, Secured Authorization |
| 3.   | Scalable Architecture    | Handles large number users on demand  | Container registry, Kubernetes     |
| 4.   | Availability             | The application can be accessed at any time.The administrator needs to look up the stock availability in the database   | Docker                             |
| 5.   | Performance              | Speed up the webpage Site optimization based on data analysis.  | Kubernetes                         |