**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

| Date | 11 Oct 2023 |
|---|---|
| Team ID | NM2023TMID3415 |
| Project Name | E Commerce Application on IBM Cloud Foundry Project |
| Team Name | Proj_227258_Team_1 |
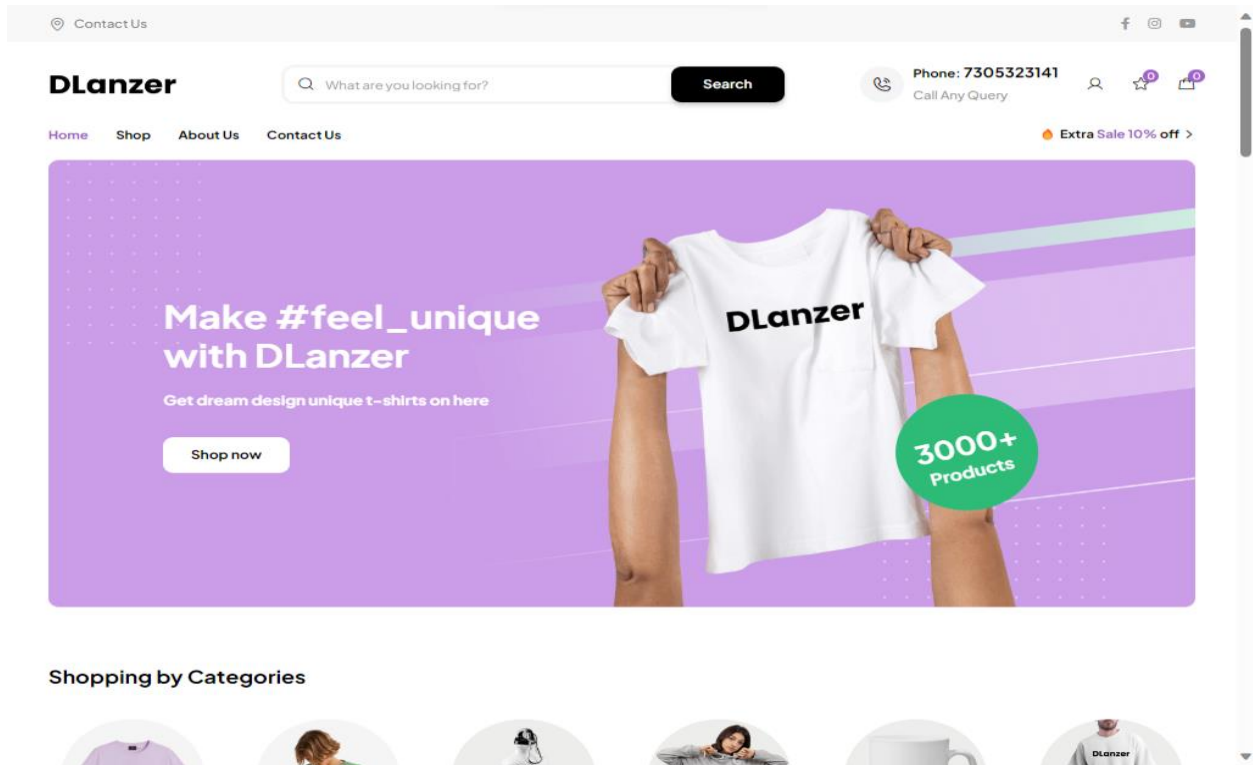


**Table-I : Components & Technologies:**

| S.No | Component | Description | Technology |
|---|---|---|---|
| **1.** | User Interface | How user interacts with application e.g. Web UI, Mobile, Chatbot etc. | HTML, CSS, JavaScript, Flutter. |
| **2.** | Application Logic - 1 | Logic for a process in the application. | PHP. |
| **3.** | Application Logic - 2 | Logic for a process in the application. | Elementor Website Builder. |
| **4.** | Application Logic - 3 | Logic for a process in the application. | Woo – Commerce. |
| **5.** | Database | Data Type, Configurations etc. | MySQL. |
| **6.** | File Storage | File storage requirements. | Local File System. |
| **7.** | External API-1 | Purpose of External API used in the application. | ShipRocket. |

| 8. | External API-2 | Purpose of External API used in the application. | PhonePay & Payment Gateway. |
|----|----------------|--------------------------------------------------|-----------------------------|

**Table-2: Application Characteristics:**

| S.No | Characteristics | Description | Technology |
|------|-----------------|-------------|------------|
| 1. | Open Source | List the open source used. | PHP, WordPress & Elementor Website Builder . |
| 2. | Scalable Architecture | Justify the scalability of architecture. | Technology used |
| 3. | Availability | Justify the availability of application (e.g. use of load balancers, distributed servers etc.). | Technology used |
| 4. | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc. | Technology used |