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

| Date | 3 NOV 2023 |
|---|---|
| Team ID | NM2023TMID02789 |
| Project Name | How to create a brand promo video using Canva |

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
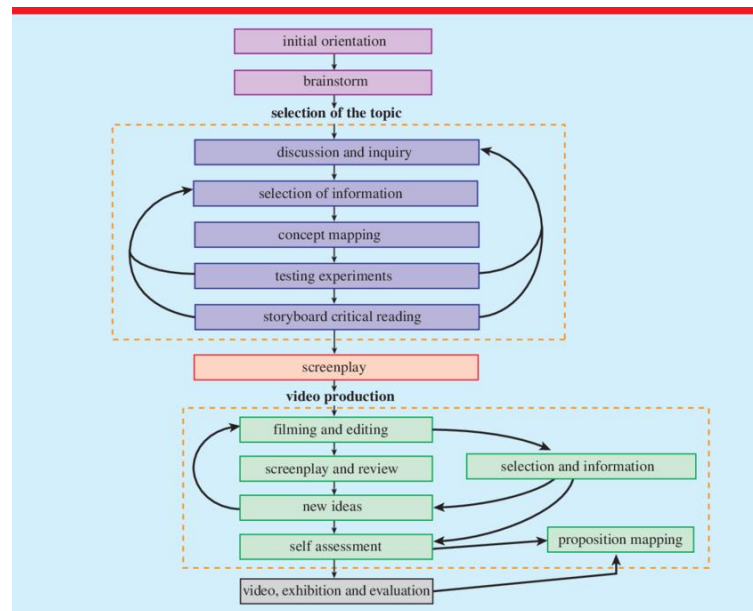
**Table-1 : Components & Technologies:**

| S.No | Component | Description | Technology |
|------|-----------|-------------|------------|
| 1. | User Interface | How user interacts with application e.g. Web UI, Mobile App, Chatbot etc. | HTML, CSS, JavaScript, Angular Js, React Js. |
| 2. | Application Logic-1 | Logic for a process in the application | Java / Python |
| 3. | Application Logic-2 | Logic for a process in the application | IBM Watson STT service |
| 4. | Application Logic-3 | Logic for a process in the application | IBM Watson Assistant |
| 5. | Database | Data Type, Configurations etc. | MySQL, NoSQL. |
| 6. | Cloud Database | Database Service on Cloud | IBM DB2, IBM Cloudant. |
| 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. |
| 9. | External API-2 | Purpose of External API used in the application | Aadhar API. |
| 10. | Machine Learning Model | Purpose of Machine Learning Model | Object Recognition Model. |
| 11. | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration : | Local, Cloud Foundry, Kubernetes. |

**Table-2: Application Characteristics:**

| S.No | Characteristics | Description | Technology |
|------|-----------------|-------------|------------|
| 1. | Open-Source Frameworks | List the open-source frameworks used | Python, JavaScript, Node.js,React. |
| 2. | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | SHA-256, Encryptions, IAM Controls, OWASP. |
| 3. | Scalable Architecture | Justify the scalability of architecture (3 – tier, Micro-services) | Microservices Architecture, Load balancing. |
| 4. | Availability | Justify the availability of application (e.g. use of load balancers, distributed servers etc.) | Master-slave, NGINX. |
| 5. | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc. | Redis, Celery, Apache kafka. |