

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

Date	20 November 2023
Team ID	Team-591819
Project Name	Project – Rookies.in
Maximum Marks	4 Marks

**Technical Architecture:**

The Deliverable shall include the architectural diagram below and the information as per the table1 & table 2

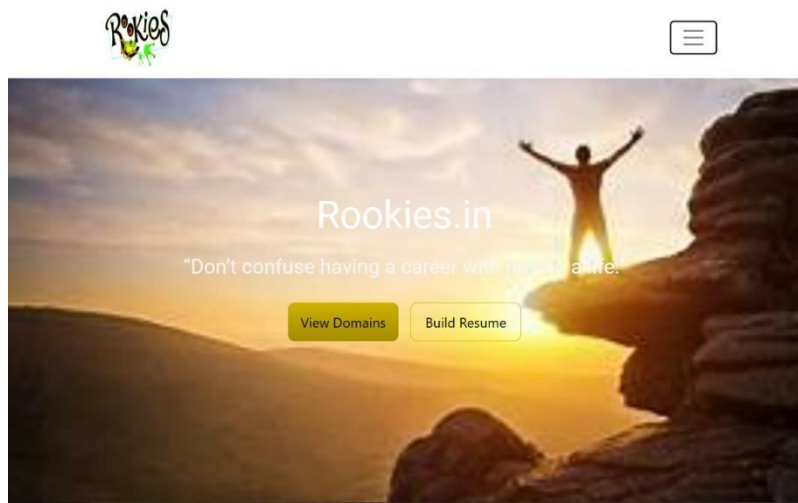
**Example: helping a fresher build his career like Udemy, Skill Shaw, Nxt Wave....etc.**

**Reference: \_**

[https://www.google.com/search?q=udemy&rlz=1C1UEAD\\_enIN1078IN1079&oq=udemy&gs\\_lcrp=EgZjaHJvbWUqBwgAEAAyYjwlyBwgAEAAyYjwlyGAqBEC4YQxiDARjHARixAxjRAXiABBiKBTISCAIQABhDGIMBGLEDGIAEGloFMgoIAxAAAGLEDGIAEMhIIBBAAGEMYgwEYsQMYgAQYiqUyDQqFEAAyYgwEYsQMYgAQyCqgGEAAyYsQMYgAQyDQqHEAAyYgwEYsQMYgAQyBwglEAAyqATSAQkzNDMzajBqMTWoAqCwAqA&sourceid=chrome&ie=UTF-8](https://www.google.com/search?q=udemy&rlz=1C1UEAD_enIN1078IN1079&oq=udemy&gs_lcrp=EgZjaHJvbWUqBwgAEAAyYjwlyBwgAEAAyYjwlyGAqBEC4YQxiDARjHARixAxjRAXiABBiKBTISCAIQABhDGIMBGLEDGIAEGloFMgoIAxAAAGLEDGIAEMhIIBBAAGEMYgwEYsQMYgAQYiqUyDQqFEAAyYgwEYsQMYgAQyCqgGEAAyYsQMYgAQyDQqHEAAyYgwEYsQMYgAQyBwglEAAyqATSAQkzNDMzajBqMTWoAqCwAqA&sourceid=chrome&ie=UTF-8)

#### Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party website etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models .



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

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application web technology etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	Google collab
4.	Application Logic-3	Logic for a process in the application	Vscode
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	File Storage	File storage requirements	Internal storage of pc or laptops
7.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model( by using webcam), Yolo V7 used in teachable machine
8.	Infrastructure	Helps to design website for better experience	Boost strap

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	No technology used
2.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used Boost strap

S.No	Characteristics	Description	Technology
3.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Teachable machine
4.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Boost strap

#### References:

<https://c4model.com/>

<https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/>

<https://www.ibm.com/cloud/architecture>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>