Project Design Phase-I
Solution Architecture

Date	30 October 2023
Team ID	7.6
Team Members	Saloni Ghule-21BCE1967 Shreya Singh-21BPS1435 Kreet Rout-21BCE1482 Nitin Kumar-21BCE1792
Project Name	AI system that verifies user identities based on their online behaviour patterns, adding an extra layer of security.
Maximum Marks	4 Marks

Project Title:

Behavioural Biometrics-Based User Identity Verification System

1) User Enters Website in Browser.

2) The request is made to Route 53.

3) Request is passed through Web-Application Firewall.

4) If media is requested the req goes to CDN then Load Balancer, else directly to load balancer.

5) Req is passed to EC2 Instance hosting the server.

6) From where if login is requested the request goes to sage maker, according the users behaviour, he is a genuine the request will be approved, else denied.

7) Then database is checked for credentials.

8) The Infra works in 2 availability zone for fault tolerance.

9) The Data is backed up in Region-2, if needed can be used.

Amazon Sagemaker

Training Algorithm & Model

Storage on S3

Model Storage & Training Dataset

User Enters website in address bar

Web-Application Firewall

Media

Route 53

Website

C D N

Load Balancer

AZ-1 Region-2

AZ-1 Region-1

EC2

Backup

Database

Sage maker

Auto-Scaling Group

AZ-2 Region-1

EC2

Database

Backup