***Government College University Lahore***

***Department of Computer Science***

***Project Proposal***

1. **Group Members**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of Students** | **Roll No.** | **Session** | **Session** | **Email Address** |
| 1. Ali Ather | 047-BSCS-20 | 2020-24 | CSA2 (B) | info2atherayyubi@gmail.com |
| 1. Najam-Ud-Din | 0108-RE-BSCS-18 | 2020-24 | CSA2 (B) | [najamg377@gmail.com](mailto:najamg377@gmail.com) |

1. Project Title

**Mobile Voting App with Face Recognition**

1. Background to the problem

The current system that exists now is a machine and paper-based voting system, which requires a lot of manpower and a lot of resources. This voting system also encounters difficulties in the counting process, which is also because it counts manually. As per the recent voting system, symbols of various people parties are used by ballet machines display. People with voting rights may use fake voting cards to vote, which may cause problems. In the current system, the person has to walk a long way to the electoral district to vote. Creating a mobile voting app with face recognition simplifies voting, eliminates manual counting, reduces fake voting risks, and lets people vote from anywhere, avoiding long trips to polling stations.

1. **Budgets**

* Development Budget: No specific development budget required.
* Low-cost solution utilizing open-source technologies.

1. Project Scope

Our project aims to create a modern and secure way for private parties or organizations to conduct their voting process by using a mobile app. This app will use facial recognition technology to make the voting process faster and more efficient. It also keeps things safe by making sure no one can use fake voting cards. Plus, you can vote from anywhere, making it convenient for everyone. The app will be like a friendly helper for voting, making the whole process smoother and more fun.

1. Requirements

* Thorough research on voting regulations and procedures.
* User requirements for the application, considering features for user convenience and security.
* Ensure the application is scalable, secure, and efficient.
* Datasets provided by private parties or organizations.

1. Which of the following core modules will be used in your project build upon?

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| ***Project*** | *App* | *AI* | *NW* | *SE* | *DB* |
| Mobile Voting App with Face Recognition | *√* | *√* | *√* | *√* | *√* |

1. Tools and Technology

* Android (Frontend): Flutter
* AI (Face Recognition): OpenCV, Python
* Cloud: AWS
* DBMS: (MongoDB, Firebase)
* Backend: Node JS
* Software Engineering/Architecture tools (Visual Studio Code)

Name of Supervisor(s): *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

Supervisor’s Comments:

Supervisor’s Signature: …………………………………………… Date: ……………….