GECHO – GLA's ECHO

Group No.: O5

Project Group Members:
1. Rohan Prajapati (A-44/2484200166)
2. Amit Giri (A-04/2484200022)
3. Rajat Singhal (A-40/2484200154)
4. Lalit Kumar (A-27/ 2484200105)

Project Supervisor: Mr. Shishupal Singh, Technical Trainer

About the Project: G'echo is a secure and private social media platform exclusively designed for GLA University to connect students, faculty, administrators, and clubs. It ensures genuine communication through GLA email verification and provides a centralized space for posting event updates, photos, and blogs. Students and faculty can actively engage through likes and comments, fostering a stronger and more connected campus community. The platform also aims to simplify university announcements, enhance collaboration, and reduce reliance on external apps, creating a safe and organized digital environment for all members. In addition, G'echo will serve as a hub for academic discussions, club promotions, and event coordination, helping users stay informed and involved in university life. Over time, it will evolve into a comprehensive campus network that strengthens interaction, encourages participation, and builds a more transparent and inclusive digital ecosystem for GLA University.

Motivation: The motivation behind developing the G'echo app stems from persistent challenges faced by the GLA University community regarding delayed or missed notifications about campus events, announcements, and academic activities. As a result, vital updates frequently fail to reach their intended recipients or become lost among unrelated content.

This project was developed to resolve the recurring communication gaps and event visibility issues within the university. Students often missed important updates or club events due to scattered information channels. To overcome this, we designed a secure, dedicated university social platform that centralizes all announcements and activities. Priority posts, such as those from the Director or administration, remain highlighted for 1–2 days to ensure maximum visibility. The platform enhances campus connectivity, promotes active participation, and supports the university's digital transformation by providing a reliable and structured medium for official communication.

Tools required:

➢ **Hardware Requirements:**
Android Device Specifications:
- OS Version: Android 5.0+ (API 21)
- RAM: 2GB minimum, 4GB recommended
- Storage: 100MB+ free space
- Camera: Required for photo capture
- Network: WiFi or mobile data connection

➢ **Software Requirements:**
Development Tools:
- Code Editor: Visual Studio Code / Android Studio
- Flutter SDK: 3.0+ with Dart 2.17+
- Version Control: Git
- Emulator: Android Emulator for testing

Technology Stack:
- Frontend: Flutter (Dart)
- Backend & Database: Firebase (Authentication, Firestore, Storage)
- Image Processing: Cloudinary API

Signature of Project Supervisor: _____