**Project Overview**

**App Name: Guftago**

**Description:**

Guftago is a unique application for real time chatting which aims at enriching the communication experience by being more enriched, active, and selective. It brings features like WhatsApp status/story highlights like not showing the status as of now; applying filters during the video call and a variety of other unique features that takes Guftago to a new level of digital communication.

**Purpose:**

Guftago aims to enhance the user experience in messaging and video calling by providing interactive, user-friendly, and customizable communication tools. It bridges the gap between traditional messaging apps and social platforms, creating a seamless, fun, and efficient communication platform.

**Core Features:**

**User Side Features:**

1. **Story Highlights:**
   * Users can upload stories (photos/videos) visible to their contacts 24 hours.
   * Stories with high engagement (views/reactions) automatically move to a "Highlights" section where users can save and organize their best moments.
   * Interactive reactions like emojis and text-based comments are enabled.
2. **Video Call Filters:**
   * Real-time beauty, AR-based masks, and background effects can be applied during video calls.
   * Users can switch between filters dynamically without interrupting the call.
   * Noise-cancellation ensures clear audio during video calls.
3. **Advanced Messaging:**
   * Support for rich media messages (images, videos, audio, GIFs, and documents).
   * Message reactions (like emojis) and disappearing messages.
   * Customizable chat themes for each conversation.
4. **Group Chat with Topics:**
   * Group conversations include topic-based threads for organized discussions.
   * Admins can pin important messages and create polls for decision-making.
5. **Privacy and Security:**
   * End-to-end encryption for all chats and video calls.
   * Privacy settings allow users to control story visibility and profile access.
   * Disappearing mode for private chats.
6. **In-app Mini Games:**
   * Play lightweight multiplayer games like trivia or puzzles with your contacts during a conversation or video call.

**How the App Works:**

1. **Registration:**
   * Users sign up with their phone number or email and set up their profile.
   * Contacts are synced to automatically discover friends using the app.
2. **Story Highlights:**
   * Users create stories directly in the app using the camera or by uploading them from their gallery.
   * Stories are visible in the "Story" tab for all contacts.
   * High-engagement stories automatically move to the "Highlights" section.
3. **Chat and Calls:**
   * Messaging features allow instant conversations with media sharing.
   * Video calls offer high-quality streams and real-time filter applications.
   * Group chats and topic-based discussions keep conversations organized.
4. **Customization:**
   * Users can personalize their experience by changing app themes, chat wallpapers, and notification sounds.
5. **Privacy Controls:**
   * Settings for who can view stories, send messages, or call.

**Technology Stack:**

**Frontend:**

* **Framework:** Flutter (for both iOS and Android platforms)
* **UI/UX Design:** Figma for prototyping, Material Design and Cupertino widgets.

**Backend:**

* **Server:** Node.js with Express.js (API development)
* **Database:** Firebase Firestore (real-time data syncing) or PostgreSQL
* **Authentication:** Firebase Authentication or OAuth 2.0

**Video and Media Handling:**

* **Video Call SDK:** Agora or WebRTC
* **AR Filters:** OpenCV or Snapchat Camera Kit SDK

**Push Notifications:**

* Firebase Cloud Messaging (FCM)

**Storage:**

* Cloud Storage (Firebase Storage or AWS S3 for story media)

**Deployment:**

* **Hosting:** Google Cloud Platform (GCP) or AWS
* **Continuous Integration/Deployment:** GitHub Actions or Bitrise

**Analytics:**

* Google Analytics and Firebase Crashlytics

**Conclusion**

Guftago is a concept that integrates the features of both messaging and social apps to help people to communicate with each other almost naturally, entertaining and safely. Their communication features such as story highlights, call filters during an interactive video call and improved privacy makes it an all in one communication application for users of all ages. The compact framework of the designed application contributes to performance, while employing contemporary technology guarantees scalability and dependability.