

Pair Bond - Android App Documentation

App Concept

Pair Bond is an innovative Android application designed to enhance and support romantic relationships by allowing users to register and pair bond with their partners. The app promotes transparency, celebrates milestones, and offers features to enrich relationship experiences while ensuring user privacy and security.

Project Overview

- **Start Date:** ?
- **Completion Date:** ?
- **Duration:** ?

Key Features

1. User Registration

Users can create accounts by providing:

- Name
- Surname
- Email
- Password
- Username
- Gender
- Identification (for verification purposes)
- Relationship status
- Profile picture

2. Pair Bonding

- Both individuals must have active accounts to register as a couple.
- Mutual acceptance is required for pair bonding.
- Notifications are sent for pair bonding requests.

3. Conflict Prevention

- Notifications alert users attempting to bond with an already bonded individual.
- Pair bonding is restricted to unregistered or unbonded users.

4. Verification

- Proof of dating ensures authenticity by verifying the claimed relationship.
- Verification mechanisms may include photo uploads, mutual consent, or other identifiers.

5. Red Flag System

Allows users to mark problematic behaviors such as:

- Non-payment of dues
- Toxic behavior

Differentiates between one-time visitors and stalkers.

6. Most Wanted Feature

- Highlights popular users within the app.
- Premium subscribers can hide their visibility in this feature.

7. Relationship Stages and Milestones

Tracks key stages in a relationship:

First Kiss
Proposal
Woohoo
Marriage

Calculates relationship duration.

Celebrates milestones and relationship mileage through notifications or badges.

8. Polygamy Support

- Premium feature enabling users to register multiple partners.
- Available for both male and female users.

9. Future Enhancements (Planned)

- **Chat Capabilities:**Enable communication between bonded users.(version 2)
- **Sharing Posts:**Allow users to share posts about their relationships(version 2)
- **Tracking Capabilities:**Offer location-sharing features for better connectivity and safety.(version 2)

Core Functionality

- The initial release focuses on:
- Simplified user registration.
- Seamless pair bonding with conflict prevention.
- Celebrating relationship milestones.

Premium Features

- Hide visibility in the "Most Wanted" section.
- Enable polygamy for users.

User Workflow

1. **Registration:**
User signs up with their details.
Sets profile preferences and uploads a profile picture.
2. **Pair Bonding:**
Sends a request to bond with a partner.
Partner receives and accepts the request.
3. **Milestones and Notifications:**
Relationship milestones are tracked and celebrated.
Notifications for relationship updates and alerts (e.g., attempts to bond with an already bonded user).

4. **Conflict Management:**
flag system to identify and address problematic behavior. Conflict notifications to prevent multiple registrations.

Technical Requirements

Frontend:

- Visual Studio Code
- Angular/Ionic Framework/Flutter/??

Backend:

- Firebase/Cloud-based database (Linode server or Render)
- Java Spring Boot for API development
- MySQL databases/??
- IntelliJ IDEA/??

Security:

- Data encryption
- User authentication with email and password

Third-party Services:

1. Payment Gateway: Stripe/PayPal
2. Push Notifications: Firebase Cloud Messaging (FCM)
3. Maps: Google Maps API

Contributors

4. Lead Developer - ??
5. UI/UX Designer - ??
6. Backend Developer - ??
7. Frontend Developer - ??
8. Project Manager -??

Future Roadmap

1. **Expand Chat Features:**Introduce private messaging for couples.
2. **Community Sharing:**Add social sharing capabilities for posts.
3. **Enhanced Verification:**Improve proof-of-dating mechanisms.
4. **Tracking Integration:**Introduce optional location-sharing features for bonded couples.

