

CASE STUDY

Life Moments



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Life Moments

Life's Moments is a family-oriented app designed to help users create, manage, and share their family trees while preserving precious memories through photos, videos, and interviews. This case study outlines the key features and functionalities of the app, showcasing how it connects users with their family history and fosters relationships.

1. Family Tree Display

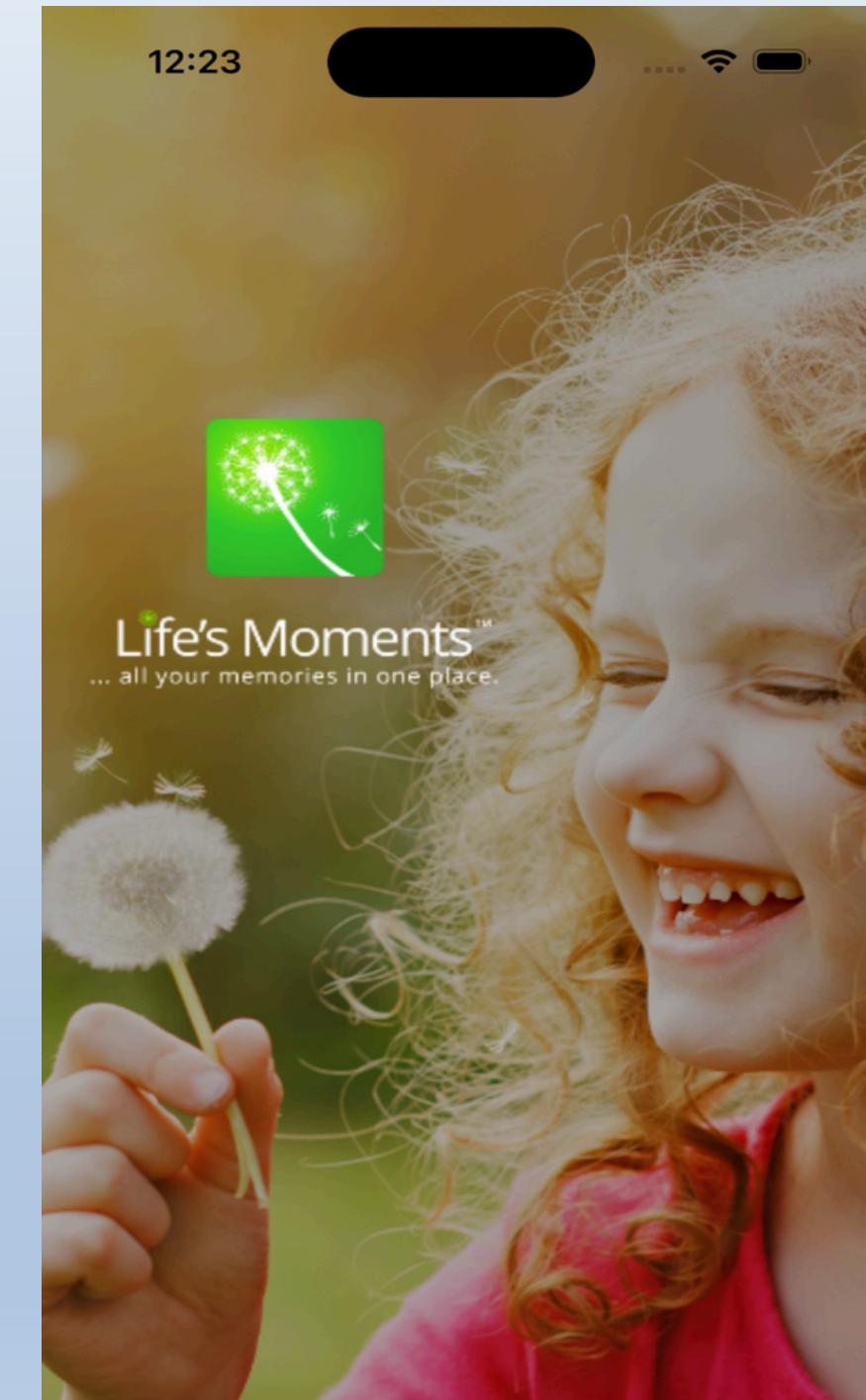
- Tree and List Views: Users can visualize their family tree in both graphical and list formats, making it easy to navigate and understand relationships.
- Member Management: Users can add new family members, edit existing ones, and set permissions for who can view or edit the tree.
- Relationship Mapping: Automatic relationship mapping helps users visualize connections, including extended family and in-laws.

2. Member Albums & Timelines

- Photo and Video Albums: Each family member has dedicated albums where users can upload, edit, move, and copy photos and videos.
- Timelines: Users can create chronological timelines for each family member, documenting important life events.
- Memory Tags: Users can tag memories with keywords for easy searching and categorization.

3. Share Functionality

- Customizable Permissions: Users can customize who can view or edit their family tree.
- Invite Page Generation: Create personalized invite pages based on the family tree, making sharing easy and engaging.
- Social Media Integration: Seamlessly share family moments on social media platforms directly from the app.



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4. Settings Section

- Account Management: Users can manage their accounts, including changing passwords and updating personal information.
- Informational Screens: Access to terms of use, privacy policy, and support options.
- Notification Preferences: Users can customize notification settings for different activities, like new shares or updates.

5. Shared Trees

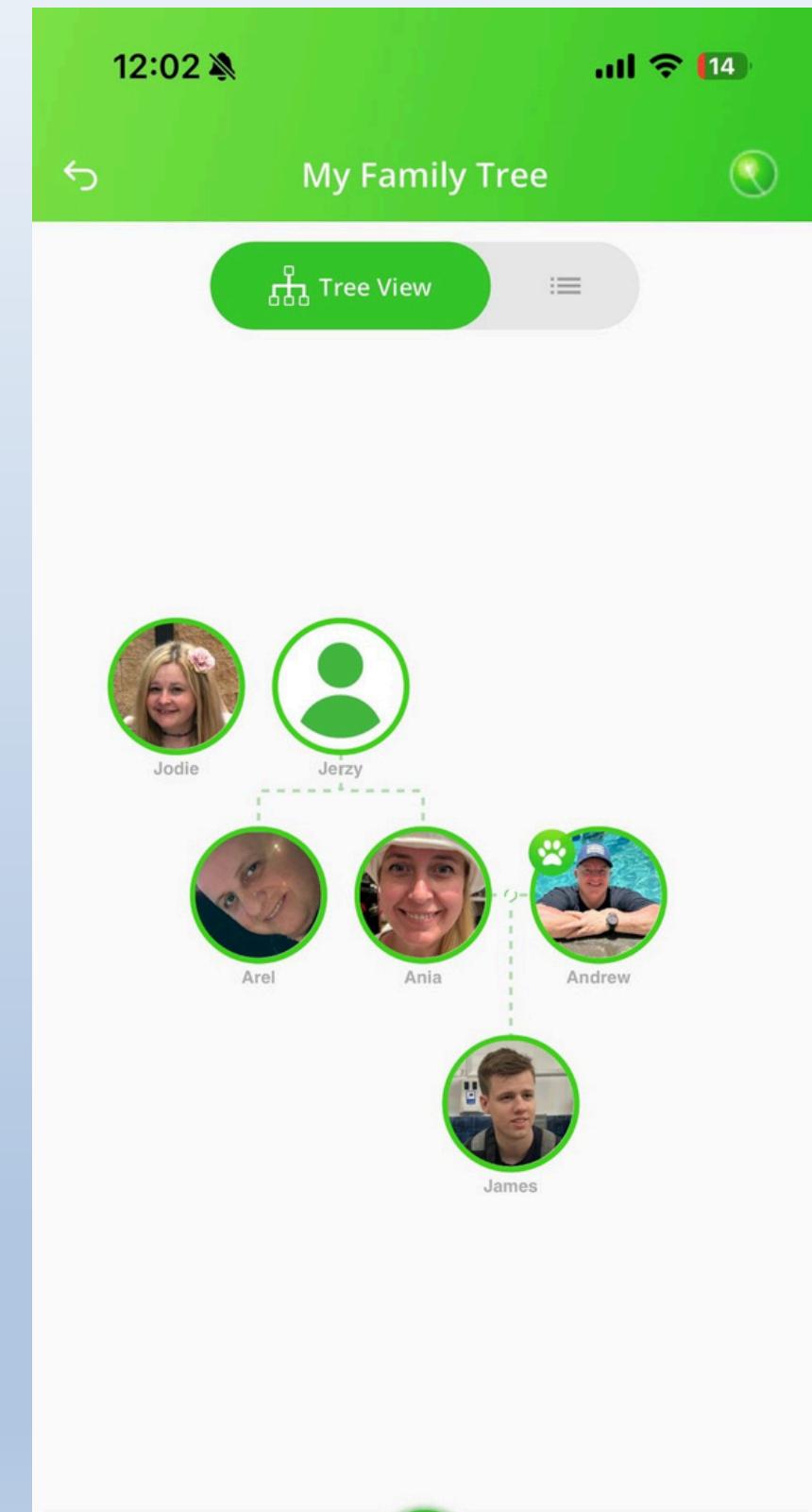
- Trees Shared with Me: Users can view family trees shared by others, with a default tree selection feature for easy access.
- Collaboration Features: Multiple users can collaborate on a shared tree, allowing them to add and edit information together.

6. Interview Functionality

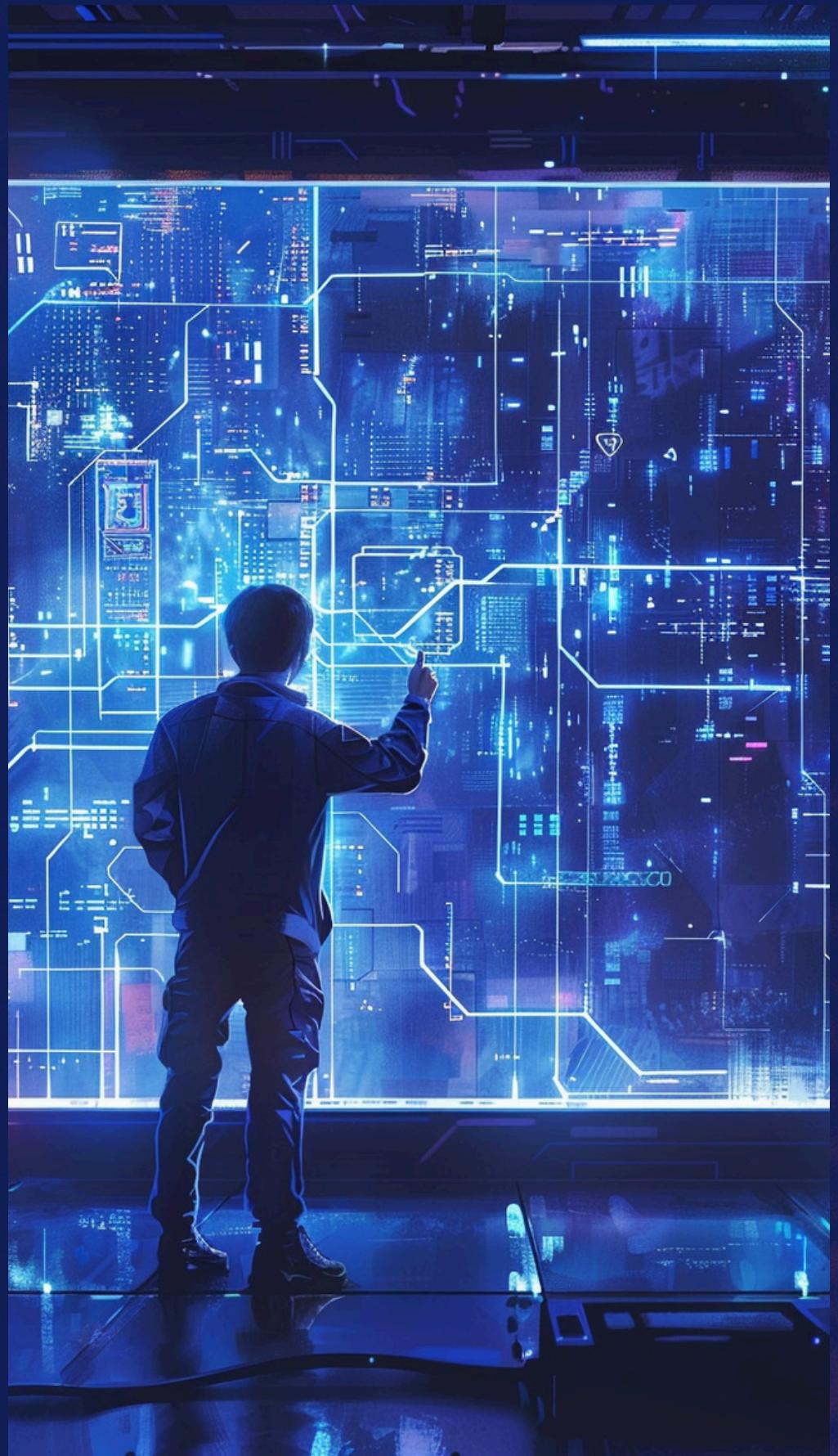
- Calendar Integration: Schedule interviews with family members and record video responses.
- Overlay Questions: Users can overlay questions during video recordings, creating a rich, interactive experience.
- Interview Templates: Predefined templates for common family interviews to guide users in capturing stories.

7. Pets Section

- Pet Albums and Timelines: Similar to family members, pets can have their own albums and timelines.
- Biometric Unlock: Secure access to pet profiles using biometric authentication.
- Pet Health Tracking: Users can log health records, vet visits, and milestones for their pets. other services.



Challenges and Solution



- **Data Complexity**

Managing and visualizing complex family trees with extended relationships while keeping it intuitive for users.

- **Privacy & Security**

Ensuring secure sharing and collaboration of sensitive family information.

- **Scalability**

Handling large volumes of multimedia content and user interactions across multiple devices.

- **Notifications and Feedback**

1. Real-time Notifications: Users receive updates about family tree changes and new shared content.
2. Feedback Mechanism: Users can provide feedback directly within the app, fostering a community-driven improvement process.

- **End to End Security**

JSON Web Tokens (JWT) are a compact, URL-safe means of representing claims to be transferred between two parties. JWT provides a powerful method for securing authentication in Node.js applications. Its stateless nature, combined with signature verification and customizable claims, makes it an excellent choice for modern web applications. By implementing JWT correctly, developers can enhance the security of their applications while providing a seamless user experience. We always follow best practices, such as using strong secret keys, implementing token expiration, and securing storage mechanisms.

Technologies Used



- **Cloud Hosting** – AWS (Amazon Web Services) for reliable and scalable cloud infrastructure.
- **Backend Development:** Node.js and MySQL for scalability and real-time interactions.
- **Frontend Development:** Flutter One Code, Every Platform.
- **Payment Integration:** Stripe for secure transactions and tipping.
- **Geo-Location Services:** Google Maps API for accurate and real-time location tracking
- **SSL Certification** – For secure data transmission and encryption of user information.
- **Push Notifications** – Firebase Cloud Messaging for real-time notifications.
- **User Data Encryption** – AES-256 encryption for protecting user data at rest and in transit.
- **Real-Time Messaging** – WebSocket protocol for instant communication between users.

Technologies Used



Cloud hosting

AWS (Amazon Web Services) for reliable and scalable cloud infrastructure.



User Data Encryption

AES-256 encryption for protecting user data at rest and in transit.



Node JS

Single Thread Back-End able to withstand thousand request per second.



My SQL

Seamless Relational Database with Atomicity, Concurrency, Integrity and Durability.



Google Maps

Google Maps

Navigate your world with Google Maps—where every journey starts with a tap!



Firebase

Build fast, scale effortlessly, and connect with confidence!



Stripe

Where Payments Flow Seamlessly!



Flutter

One Code, Every Platform.

Commercial Benefits



- Simplicity: Unlike Procore, the system was designed for a straightforward experience, minimizing unnecessary complexity.
- Custom Cost Scheduling: Flexible input for cost headings allows customization per company.
- Committed Cost Tracking: Users can track real-time financial commitments for each project.
- Scalability: Built to grow with companies, offering multiple tiers of access and functionality.
- Life's Moments app is designed to enrich family connections through a comprehensive suite of features that promote sharing, creativity, and engagement. By focusing on user-friendly navigation and robust functionalities, the app not only preserves family histories but also creates new memories for generations to come. This case study highlights the app's commitment to enhancing family relationships and ensuring that life's moments are cherished and shared.

Figma Link : <https://xd.adobe.com/view/df035a77-d944-4031-bea5-02612954ce85-8a50/grid/>



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