# Birthday & Anniversary Reminder Web App – Project Plan

## **Objective**

To develop a **free**, **web-based birthday and anniversary reminder app** that helps users store important dates, sends timely email reminders, and displays **playful**, **celebratory animations** in an interactive UI. This app aims to make special occasions unforgettable, while also being a personal, customizable, and fun experience.

#### **Core Features**

#### **@** User Authentication & Security

- Secure login and registration system using Django's built-in Auth.
- User sessions with CSRF protection.
- Only authenticated users can access or manage their reminders.
- Secure storage and access control for user-uploaded media (images, voice messages) via Supabase.

#### 🗑 Reminder System

- Add and manage birthdays and anniversaries.
- Customizable reminder options:
  - One day before
  - One week before
  - o On the same day
- Email notifications via SendGrid.
- Option to disable email reminders.

- Option to add events to Google Calendar (later enhancement).
- Multi-user collaboration: Share event reminders with family or friends.

#### Interactive & Themed UI

- Landing Page: "I have something for you... Guess what day is today?" with hugging GIF animation.
- Event Display Page: Celebrates the event with animated visuals.
- Cake-Cutting Animation: A jiggly cake-slicing Lottie animation.
- Celebration Page: Greeting card featuring:
  - Uploaded image
  - Handwritten-style message
  - Notebook-style visual theme
- Page Navigation: Smooth "page-turning" animation for browsing cards/events.
- Celebration Effects: Balloons, confetti, and sparkles triggered on special days.

#### \* Special Features

- **Surprise Mode:** Plays a special animation when a user logs in on their own birthday or anniversary.
- Voice Message Option: Record short messages that are sent as links via email.
- Personalized Themes: Change background, font, and UI color schemes.
- "This Day in History": Display interesting events from the same calendar date.
- Background Music: Enable/disable birthday tunes on the event screen.
- Reusable Messages: Save and reuse commonly used wishes (like "Happy Birthday, bro!").
- Optimized Lottie Animations: Smooth performance on all devices.
- CDN Integration: Fast loading via Supabase CDN for images/audio.

#### **Tech Stack & Tools**

Component Tool/Framework

**Backend** Django + Django REST Framework

Frontend Django Templates (React optional)

**Database** MongoDB (Render), SQLite (dev)

**Authentication** Django Auth System

Email Service SendGrid API

Media Storage Supabase Storage (images, audio)

**Hosting** Render (Free Tier)

Task Django Q

**Scheduling** 

**Animations** Lottie

## **Development Plan**

## 📌 Phase 1: Planning & Design

- Design database schema:
  - Users
  - Events (birthday, anniversary)
  - o Reminders
  - Media uploads
- Create wireframes for:
  - Landing Page
  - Event Detail Page
  - o Greeting Card Page

- Settings/Preferences
- Choose Lottie animations & layout style.

#### \* Phase 2: Backend Development

- Initialize Django project with DRF setup.
- Implement:
  - User authentication (login/register)
  - o CRUD for events
  - Reminder logic with user preferences
  - SendGrid integration for email
- Implement Django Q for scheduled email sending.
- Build API endpoints for media upload to Supabase.

## 🎨 Phase 3: Frontend Development

- Create responsive templates with Django or use React.
- Implement:
  - Animations (confetti, cake-cutting, balloons)
  - Surprise Mode detection
  - Event timeline UI
  - Handwritten font styles for cards
  - o Background music toggle
- Set up theme switcher (light/dark/personalized themes).
- Add smooth page transitions.

#### Phase 4: Testing & Deployment

- Unit and integration tests for:
  - Event creation
  - o Email sending
  - User authentication
  - Media uploads
- Manual test across devices and browsers.
- Deploy backend and DB on Render.
- Setup Supabase access and CORS.
- Optional: Connect to custom domain.

# To-Do (Post MVP)

- Add Privacy Policy page.
- Add Terms of Service.
- Enable push notifications (via browser).
- Add Google Calendar integration.
- Progressive Web App (PWA) for mobile users.
- Admin dashboard for content moderation (optional).
- Export data (download calendar/reminders as PDF or CSV).



This app will offer users a **delightful experience**, balancing utility and celebration. With email notifications, a beautiful interface, and optional customization, it turns simple reminders into joyful interactions—making sure no special day is ever forgotten again.