Project Overview

Meet App is a serverless, progressive web app (PWA) built using React and Vite. It fetches upcoming events from the Google Calendar API, works offline, and visualises event data using interactive charts.

Key Features

- Search for events by city
- View event list with toggleable details
- Set number of events to display
- Interactive charts:
- Pie chart: Event genres
- Scatter chart: Events per city
- Offline functionality
- Add to home screen (PWA)
- **Google authentication**
- Serverless functions via AWS Lambda
- Test-driven development (Jest & Enzyme)

User Authentication

Google Sign-In Integration

Users can log in securely using their Google account.

Benefits:

- Secure authentication
- No need for custom account creation
- Ready for personalization

Filtering events by city

City search

Users can search for events by entering a city name

Automatic suggestions

Suggestions appear automatically

Filtering events

Selecting a city filters the events accordingly

Users can search for events by entering a city name. Suggestions appear automatically, and selecting a city filters the events accordingly.

Showing/hiding event details

Collapsed by default

Each event is collapsed by default

Click to expand

Clicking on an event reveals more information

Additional information

Description, location and time

Each event is collapsed by default. Clicking on an event reveals more information such as description, location and time.

13:44

React California

01.07.2020, 15:44:15

California, USA

hide details

Event Details

React is one of the most popular front-end frameworks. There is a huge number of job openings for React developers in most cities. React California is a non-profit organization offering free training...

Meet App

Search for a city

Number of events:

32

Determining the Number of Events

32

↑↓

∞

Default

Customisation

Flexibility

The standard number of displayed events

Users can change this value
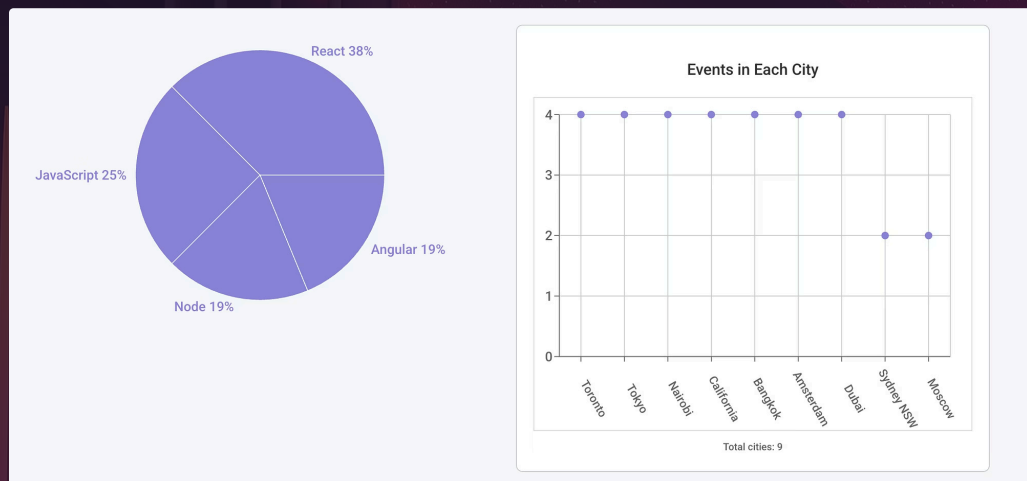
Displaying more or fewer events

The standard number of displayed events is 32. Users can customise this value to display more or fewer events.

Data Visualization with Charts

Visual Insights from Event Data

- Pie Chart: Distribution of event genres

- Scatter Chart: Number of events per city

This helps users understand event trends at a glance.

Offline Mode Support

Use Without Internet

Thanks to service workers, users can use the app without an internet connection
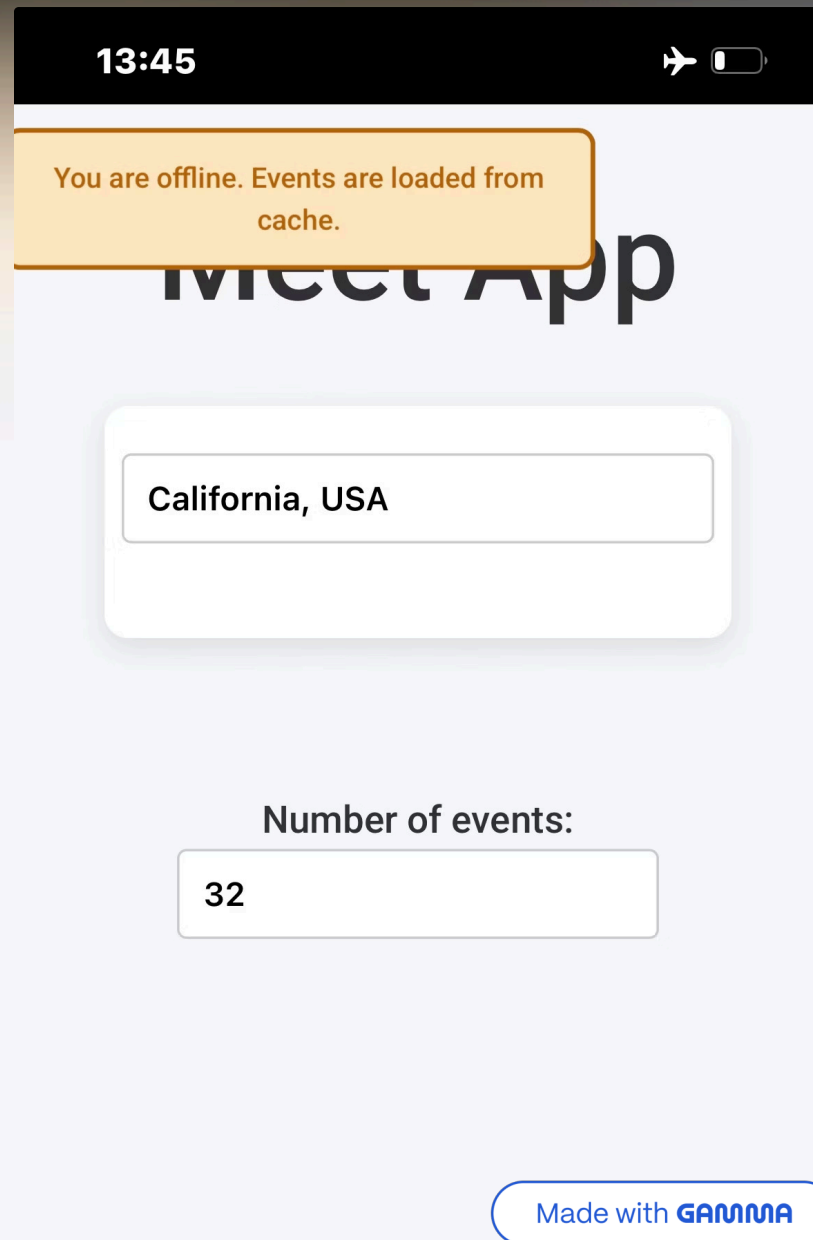
Cached Data

View cached event data even without a network

Error Messages

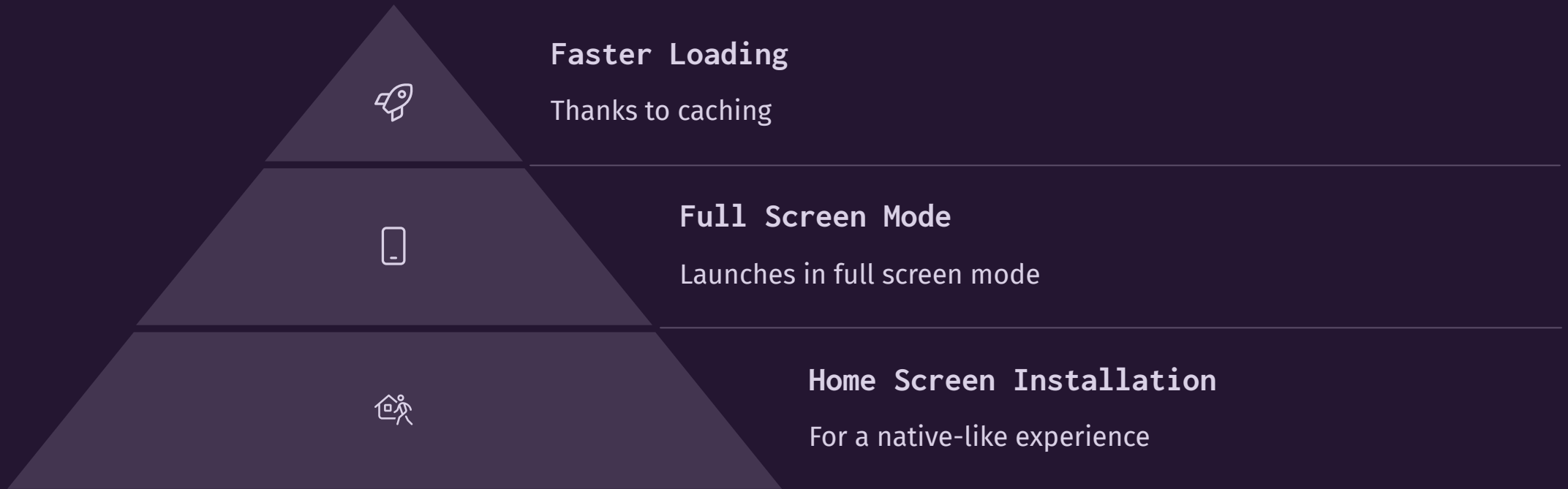Display error messages when changing filters in offline mode

Thanks to service workers, users can:

- Use the app without an internet connection
- View cached event data
- See error messages when changing filters in offline mode

13:45

You are offline. Events are loaded from cache.

Meet App

California, USA

Number of events:

32

PWA Features

Faster Loading

Thanks to caching

Full Screen Mode

Launches in full screen mode

Home Screen Installation

For a native-like experience

Users can install the Meet App on their home screen for a native-like experience. It launches in full screen mode and loads faster thanks to caching.

Test-Driven Development

Jest and Enzyme

For unit and integration tests

90% test coverage

High code quality

Defect detection

Early identification of issues

CI-ready structure

For future automation

The application was created using a TDD approach with:

- Jest and Enzyme for unit and integration tests
- 90% test coverage
- CI-ready structure for future automation

Technologies Used

Frontend

- React
- Vite

Backend

- AWS Lambda (serverless functions)
- API Google Calendar

Additional technologies

- Google OAuth
- Service Workers (offline)
- Chart.js / Recharts
- Jest, Enzyme (testing)
- GitHub, Vercel (deployment)

Summary

Meet App combines:

- Serverless Architecture
- Progressive Web App principles
- Google Calendar API
- Data Visualization
- TDD Workflow
- Responsive & accessible design

Goal: Build modern, user-friendly tools while practicing cutting-edge development techniques.