



Map Diary Engineering Tech Spec

Table of contents

[Problem statement](#)

[Goals](#)

[Non-goals](#)

[Proposed solution](#)

[Risks](#)

[User Stories](#)

[Database Schema](#)

[DiaryEntry:](#)

[User:](#)

Problem statement

Map Diary is a web application, it is to enable users to have a single point of storage for their places of interest with customizable data and view

Goals

A responsive for desktop and mobile web application with an ability to view all entries saved, view each one in detail, create, edit, and delete an entry. List of saved entries has ability to be sorted by various parameters.

Non-goals

Mobile app version, in-house authentication, integration (import/export) with any map

Proposed solution

Front-end: Next.js/Typescript + MUI

Back-end: Nest.js/Typescript

DB: PostgreSQL

Cloud: AWS S3 Blob storage

Risks

Google Single Sign On (SSO) amount of data shared

User Stories

- As a user I want to create a new diary entry about a geographical point of interest by searching for it by **address** using Google Maps, I want the name field to be auto-populated with the information from Google Maps, but editable to me. If nothing found, add address manually through Google Maps. I want to add a **picture** or have it populated for me automatically from Google Maps. I want to save my **personal rating** on a scale from 0 to 10 or check a checkbox saying **I have not been here just yet** and add a **note**. As soon as I choose the address, I want to see a **map snippet** of the location. I want to be able to save a place under one of the pre-existing **categories** or name my own category and assign an icon to it
- As a user I want to view a list of all diary entries I created in a form of a hamburger **menu** with **names** listed and the **rating number** in a circle of the corresponding colour or icon. I want the list to have an ability to **sort** the list by alphabetical order,

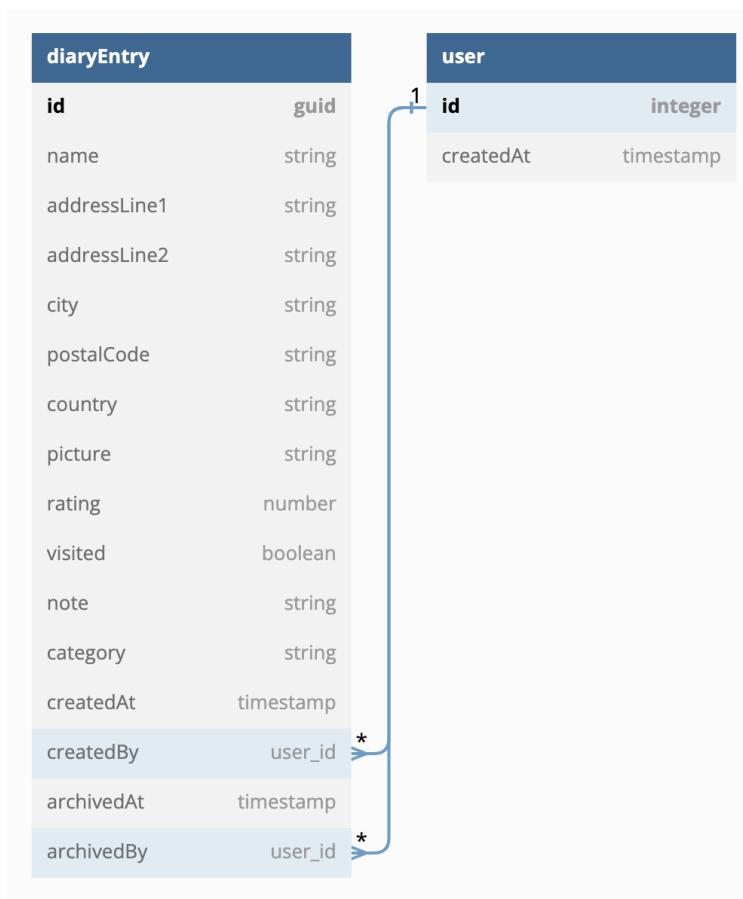
rating, proximity to me or choose a category to show on the list (e.g. outdoors, coffee, food, etc)

- As a user I want to open an item from the list to see its name, picture, address as a link that leads to Google Maps. I want to see a map snippet next to the address, my notes and rating.
- As a user I want to enter an edit mode from the full view screen to edit the name, picture, address, rating, and notes.
- As a user I want to be able to delete (**soft delete**)/move to trash bin my entry that will be automatically **hard deleted** after 30 days.

Database Schema

DiaryEntry:

- id: Guid;
- name: string;
- addressLine1: string;
- addressLine2?: string;
- city: string;
- postalCode: string;
- country: string;
- picture?: blob (consider AWS S3);
- rating?: number;
- visited: boolean;
- note?: string;
- category?: string;
- createdAt: DateTime;
- createdBy: User;



- archivedAt?: DateTime;
- archivedBy?: User;

User:

- googleId: Guid;
- createdAt: DateTime;