JS Apps with Supabase

Database Apps with Users and Roles, Supabase Auth, Supabase Storage

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Agenda

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1. **Database apps with users**: auth, users, register, login, logout
2. **Database migrations**: concepts, SQL migration scripts, Supabase migrations infrastructure
3. **Locations on the Map**: example of JS app with database, auth, users, RLS policies, DB schema migrations
4. **Row-Level Security (RLS)** in Supabase
5. **Users and roles** with Supabase Auth and RLS
6. **Edge functions**: server-side JS logic in the backend
7. **Supabase storage**: file uploads and downloads

Sli.do Code

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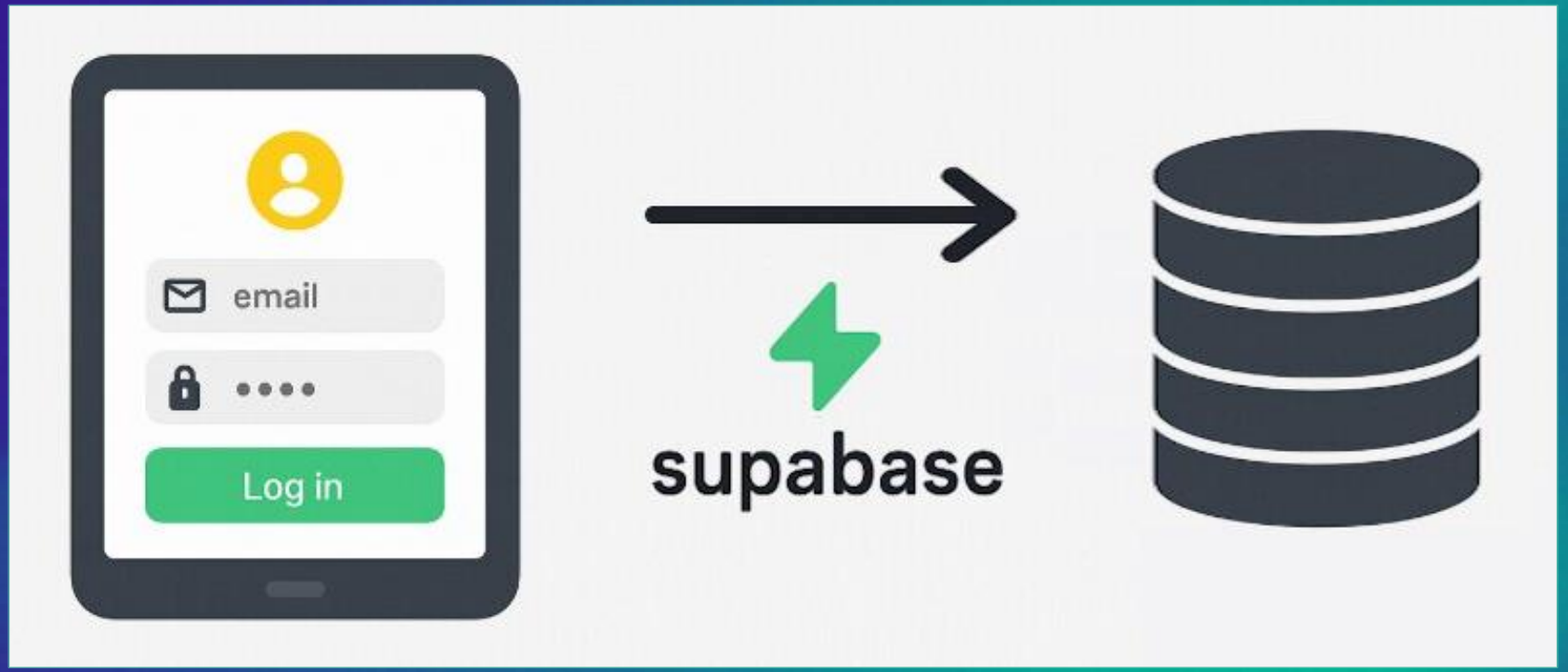
Breaks

20:00 / 21:00

Database Apps with Users

Auth, Users, Register / Login / Logout



Authentication in Supabase

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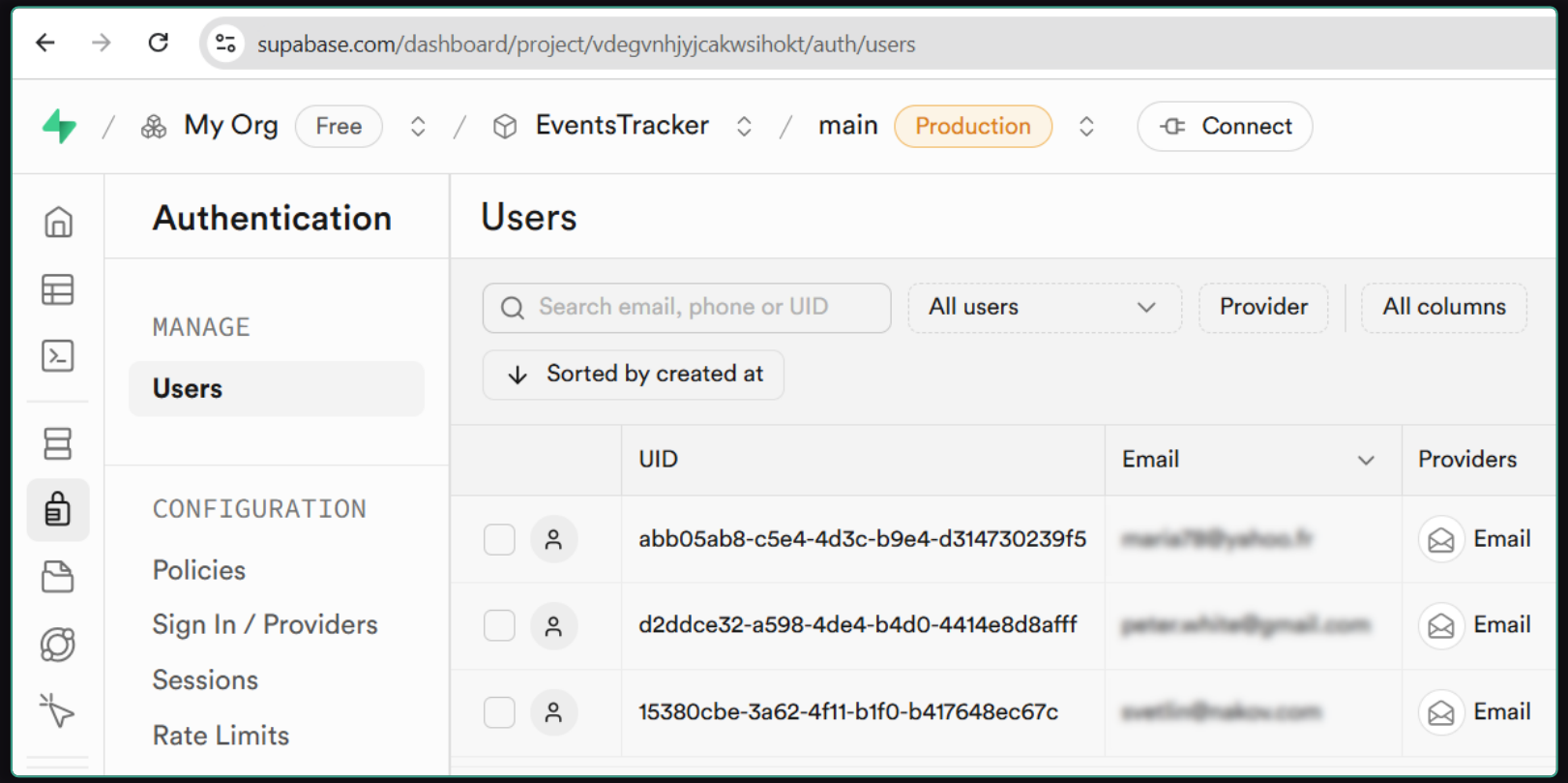
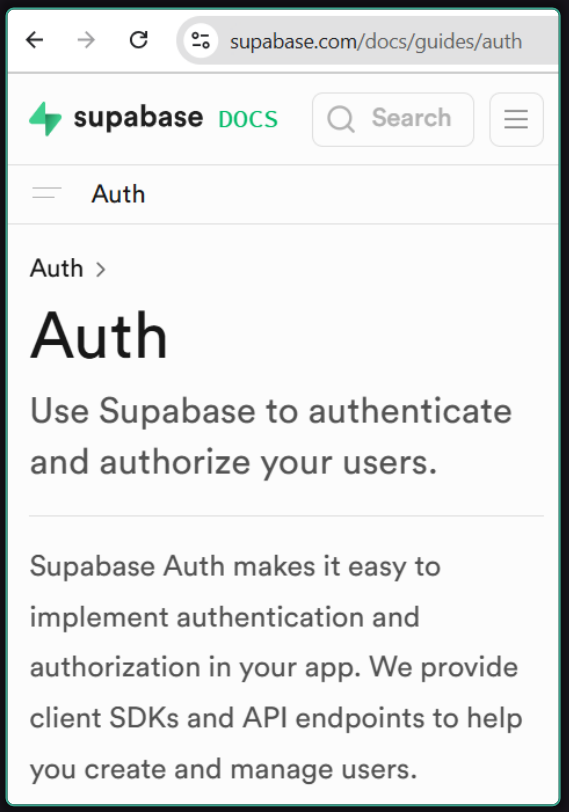
- **Supabase** has **built-in authentication** back-end
  - Users, roles, external login providers, multi-factor auth, …





Supabase Auth → Users

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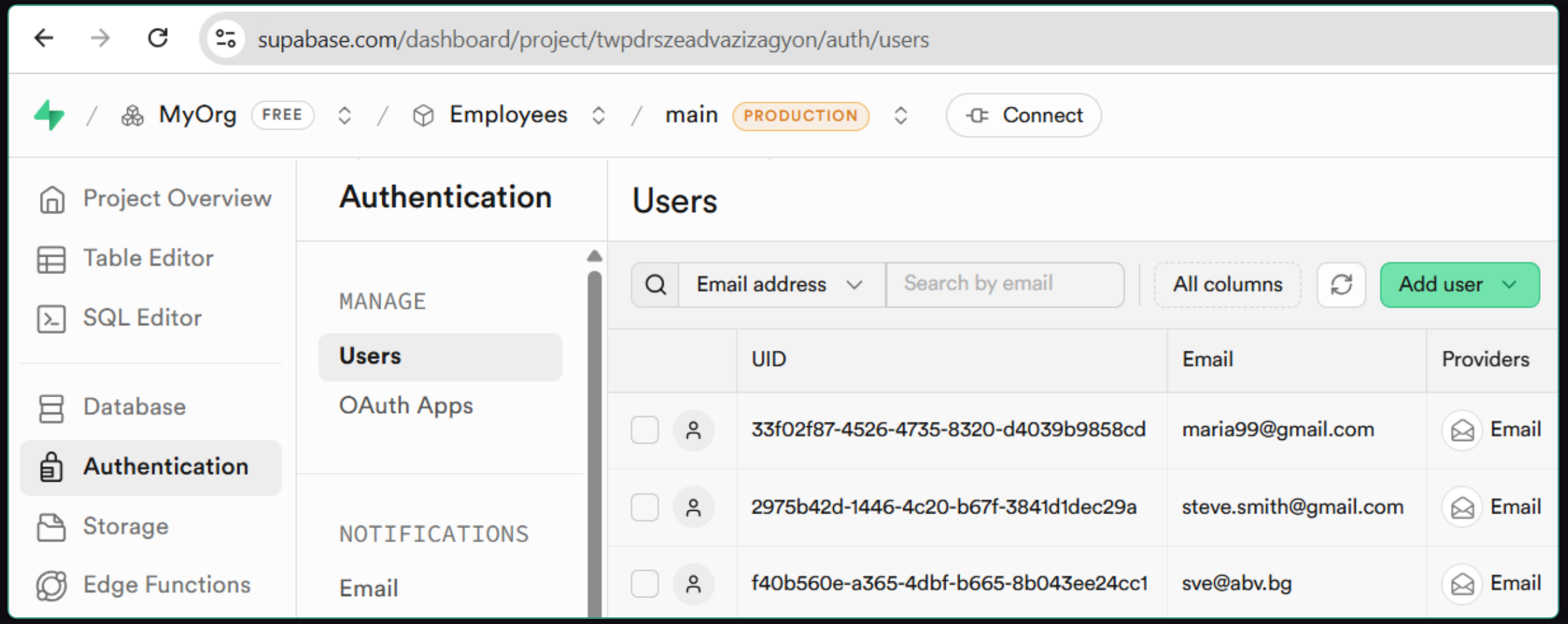
- Dashboard → Authentication → Users



Supabase Auth Configuration

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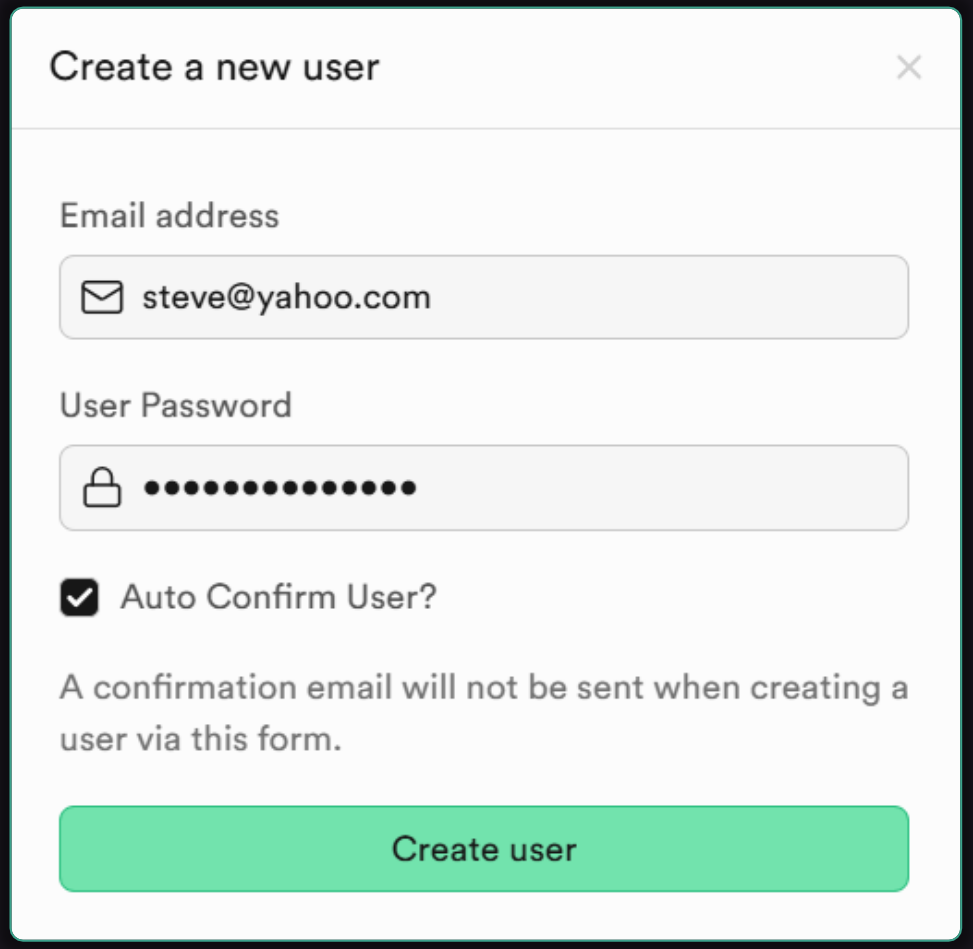
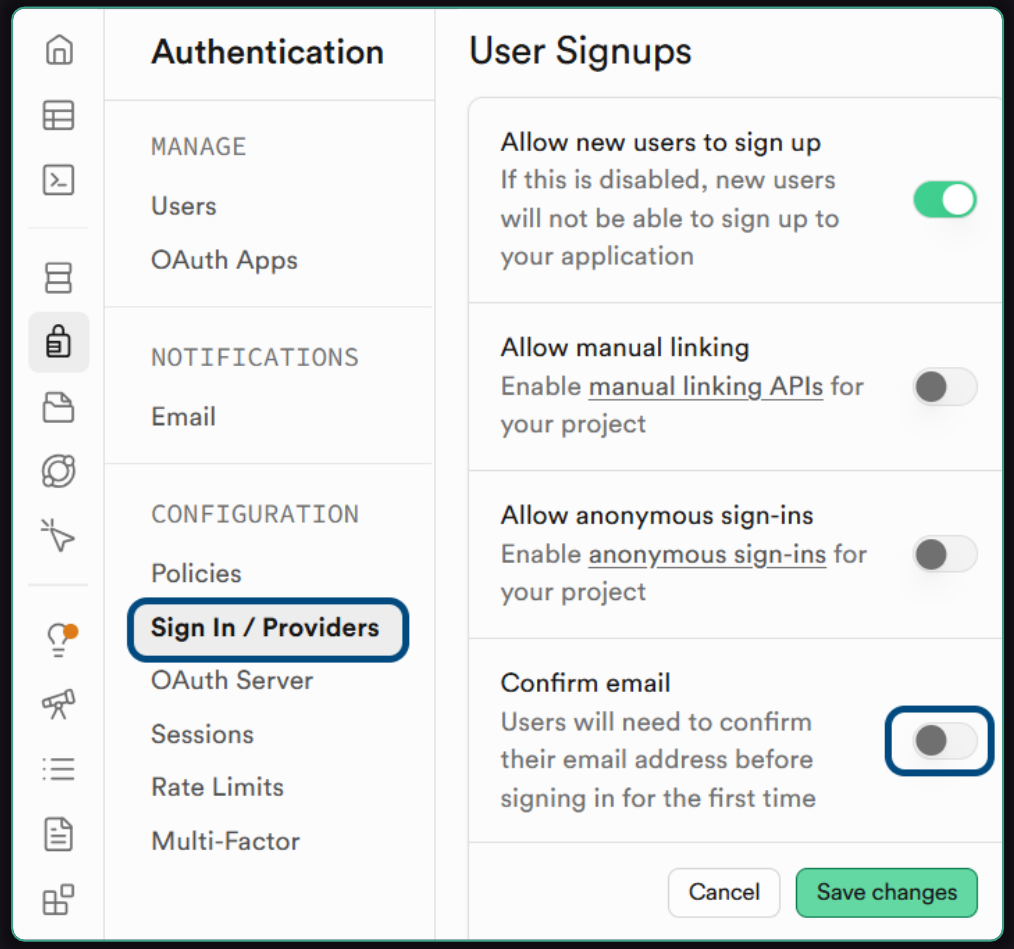
- Create a **new user**



- Switch off "**Confirm email**"



Where are Users Stored in DB?

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- Users, managed by Supabase Auth, are stored in the `**auth.users**` DB table:

auth.users

Filter | Sort | Index Advisor | Enable Realtime

id uuid	email varchar	encrypted_password varchar	email_confirmed_at timestamptz
2975b42d-1446-4c20-b67f-3841d1dec29a	steve.smith@gmail.com	$2a$10$NQxWNxpOUsFd9qhJMUl8N	2026-02-02 10:23:42.507229+00
33f02f87-4526-4735-8320-d4039b9858cd	maria99@gmail.com	$2a$10$i5yWCpkn86ce4TyppXZvou0j	2026-02-02 10:22:43.734484+00
f40b560e-a365-4dbf-b665-8b043ee24cc1	sve@abv.bg	$2a$10$cfFAPtAknLMK59186rvkZ.hl8	2026-02-02 10:16:32.979504+00

- **Passwords** are encrypted with **bcrypt**
  - Your app can compare a password with the DB, but **cannot decrypt** a password back to plaintext

Adding Supabase Authentication

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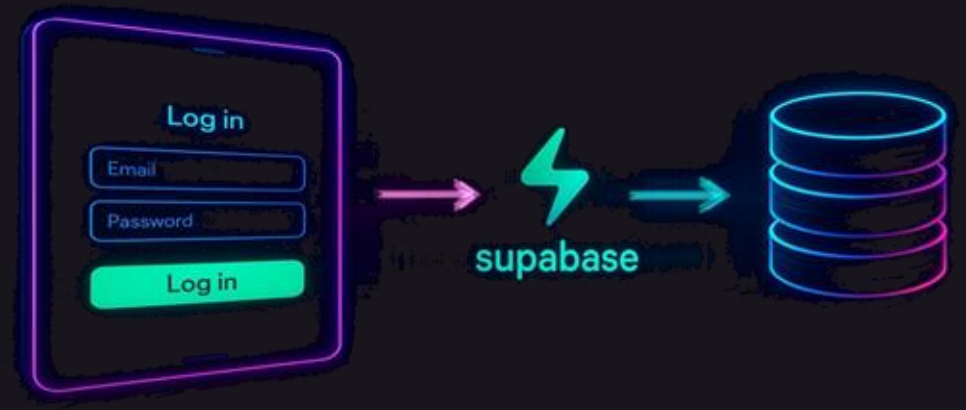
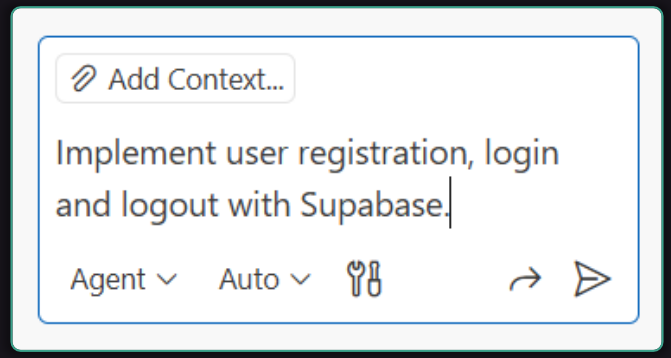
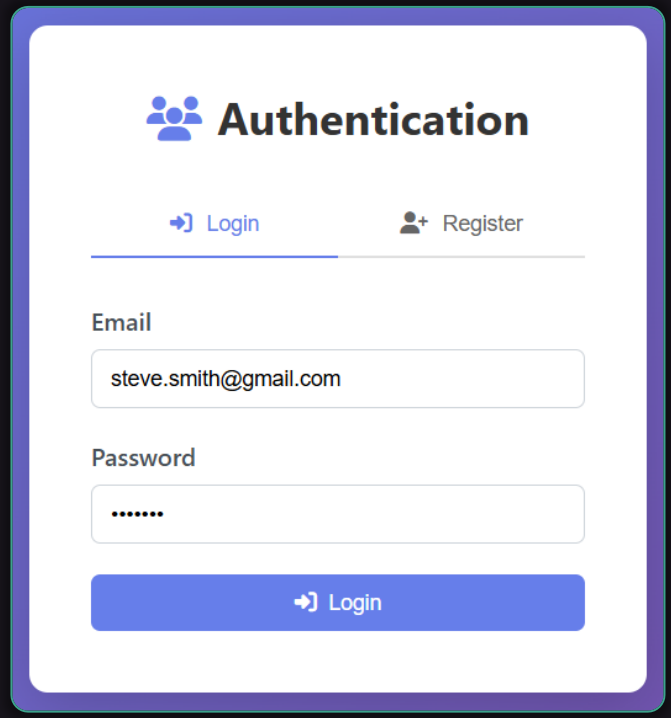
- Implementing **Supabase authentication**
  - User registration, login, logout



- Just run an AI prompt:

> Implement **user registration**, **login** and **logout** with Supabase.





Contactbook App with Users

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- We want to create a "**Contactbook**" app
  - Users **register** / **login** and manage their own contacts in their accounts in the app
  - **Contacts** hold **name** + **phone** + **email** + **comments**
- **Step 1**: Create a **Supabase project**
  - Supabase Dashboard → Projects → New project
- **Step 2**: Connect **Supabase MCP** to VS Code
  - Supabase Dashboard → Connect → MCP → VS Code

Contactbook App with Users (2)

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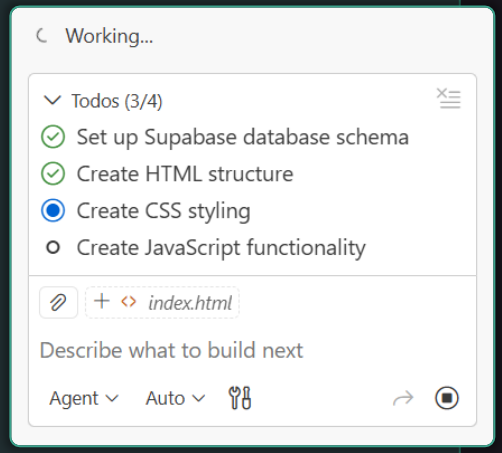
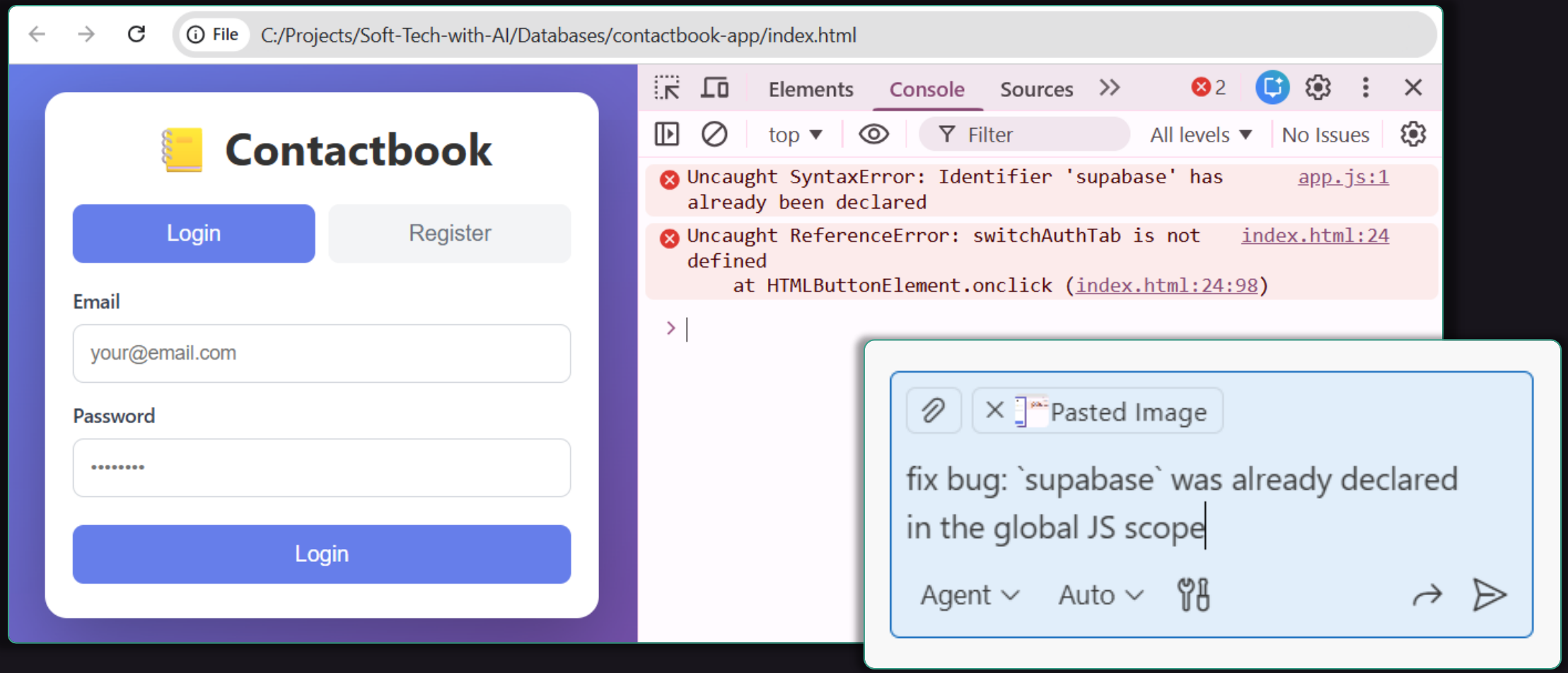
- **Step 3**: Create the **Contactbook** app with users:

Create a "Contactbook" app: login, view / add / edit / delete contacts, logout
- Use **Supabase as backend** (acess it through the Supabase MCP)
  - Each user has **own list of contacts**, displayed as cards
  - Each **contact** holds **name** + **email** + **phone** + **comments**
- Implement user **register** / **login** / **logout** using Supabase Auth
- Use simple **HTML** + **CSS** + **JavaScript** code
  - At startup display the **login** / **register** form
  - After login, **list contacts** as cards (with view / edit / delete buttons)
  - Implement **view**, **add**, **edit** and **delete** confirm with **popups**
  - Use **toast notifications** for errors and info messages (auto-close)
  - Implement a **loading spinner** at the top of the app screen



Contactbook App with Users (3)

- **Step 4**: Run the app and **fix bugs** (if any)



Register and Login in the App

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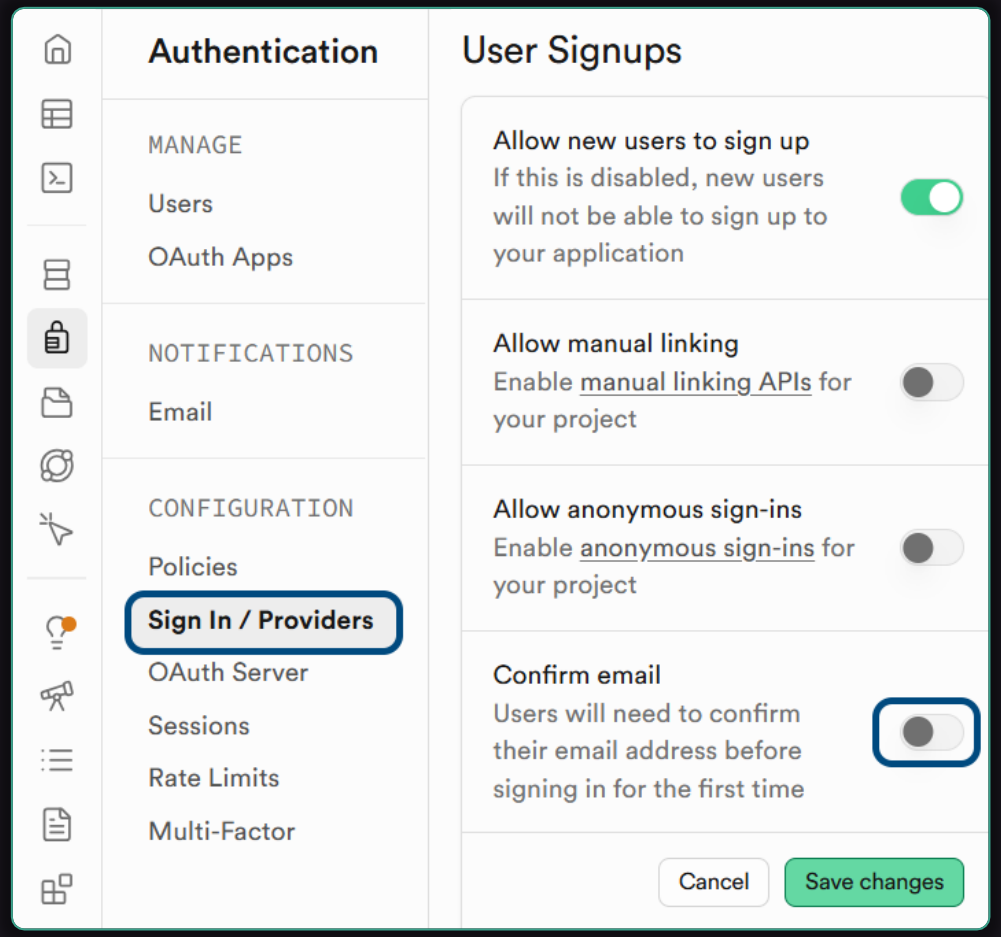
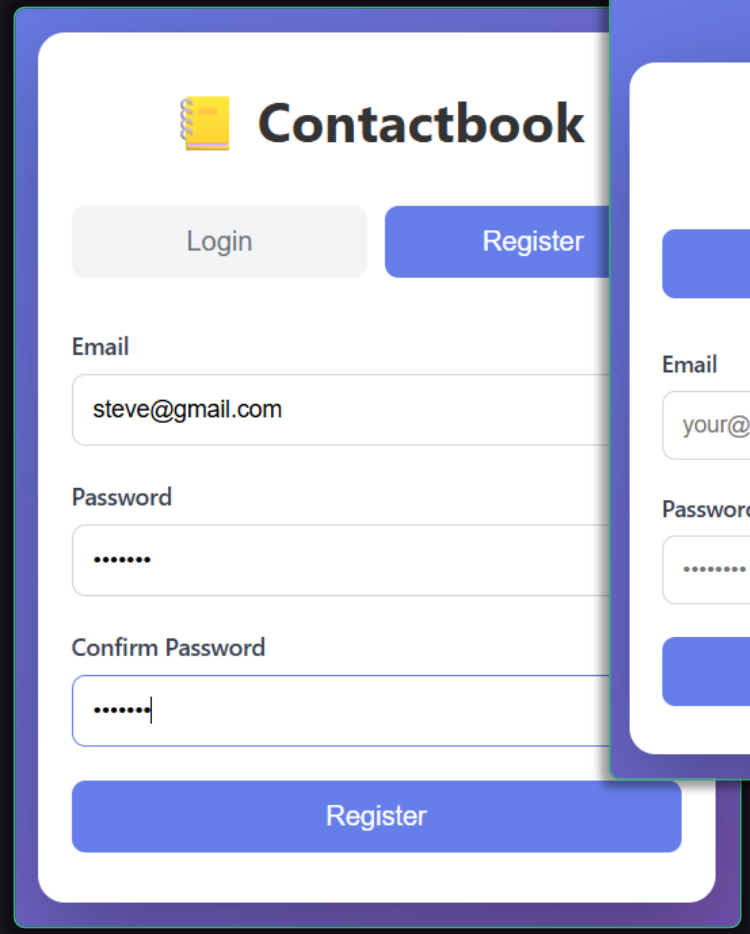
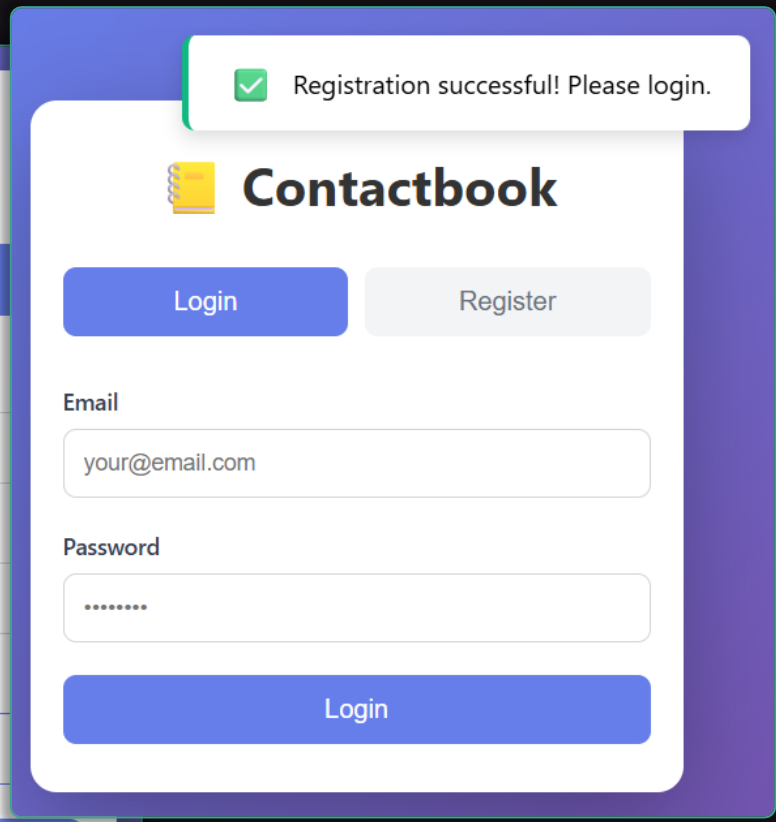
- Switch off "**Confirm email**" in Supabase







App Tables in Supabase

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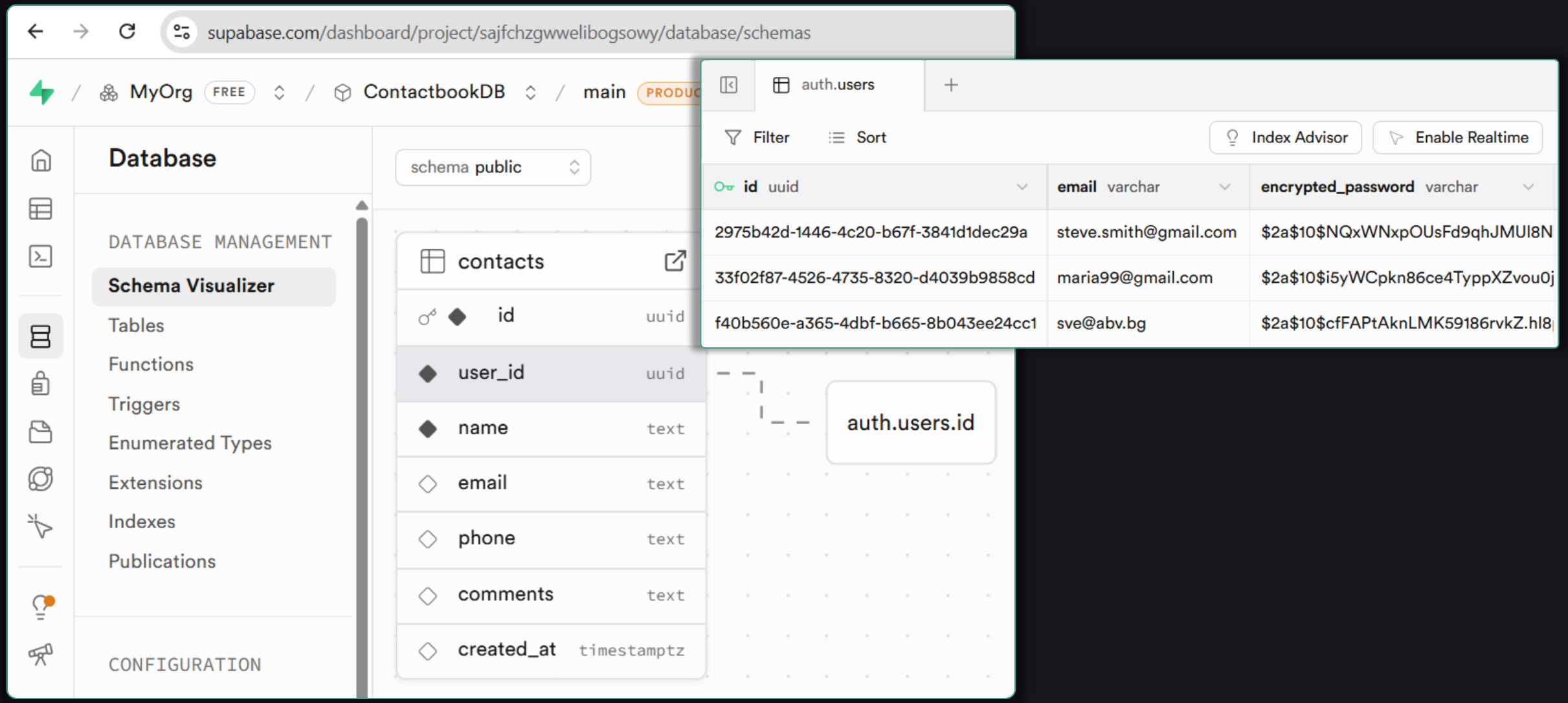

Contactbook App after Login

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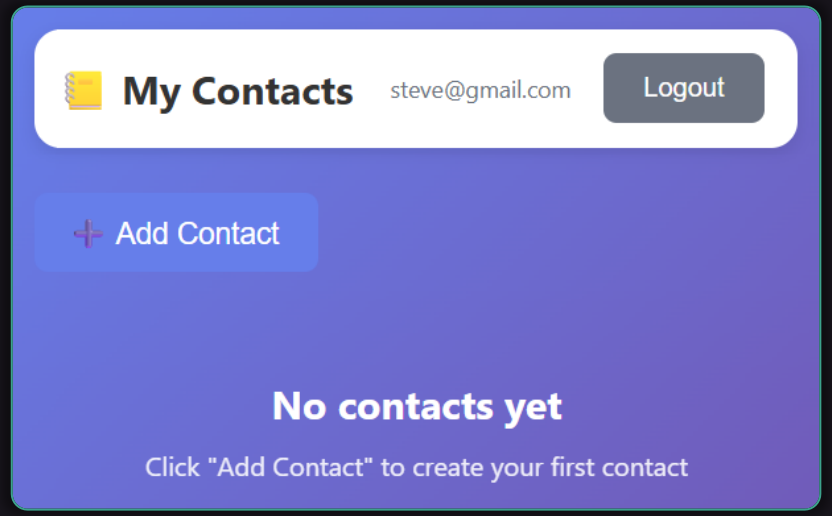
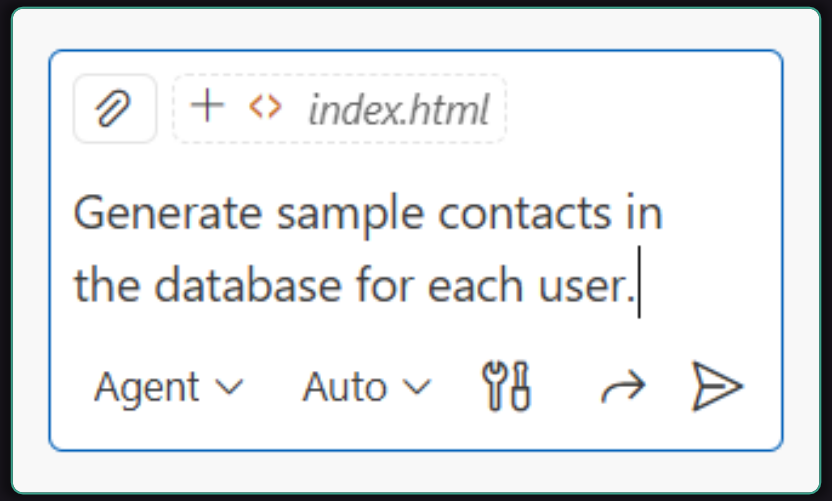
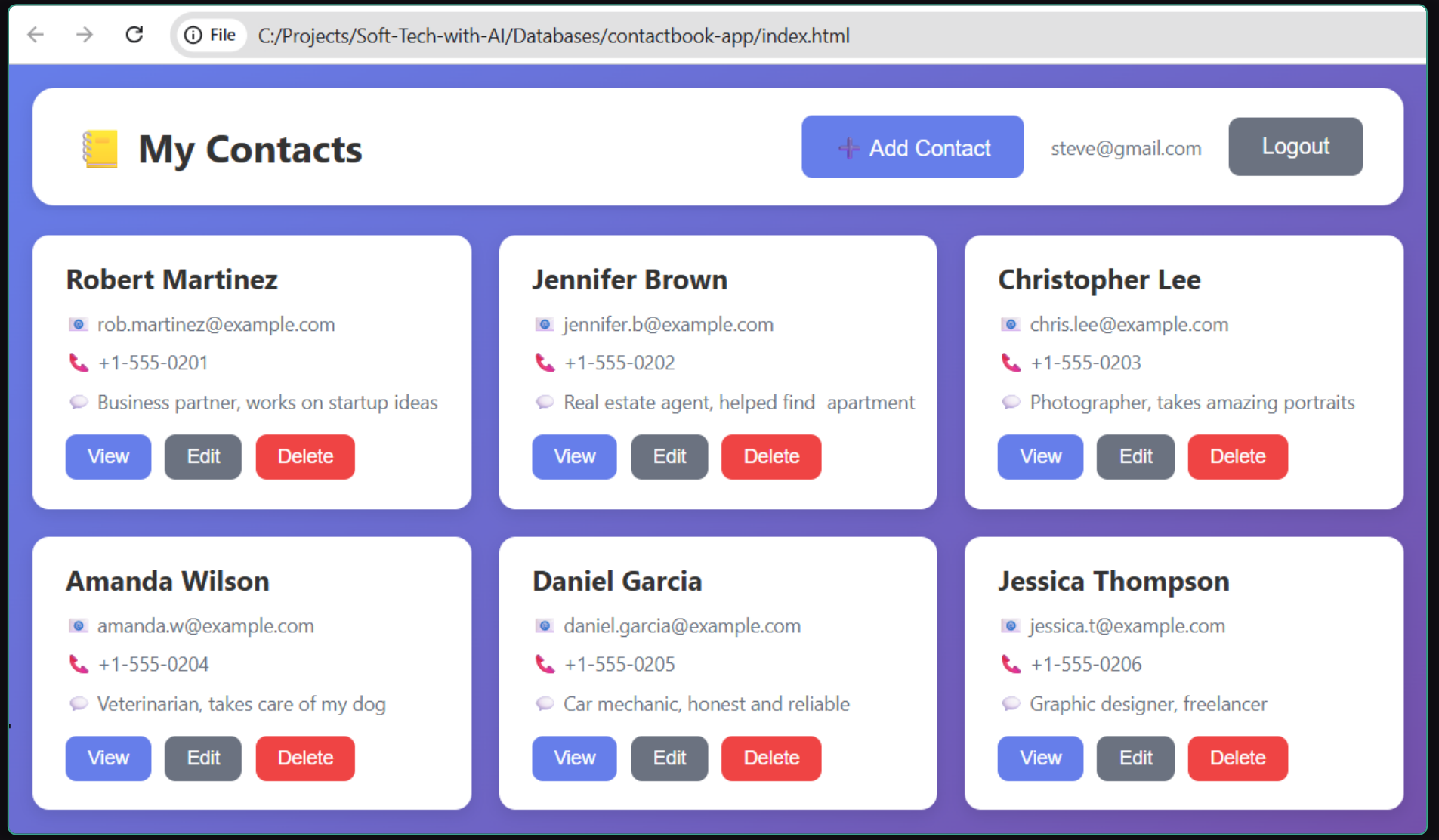
- The database is initially **empty** (no contacts yet)
- Register a 2-3 **users**
- You can **generate sample data** in the DB with an AI prompt:

> Generate **sample contacts** in the database for each user.

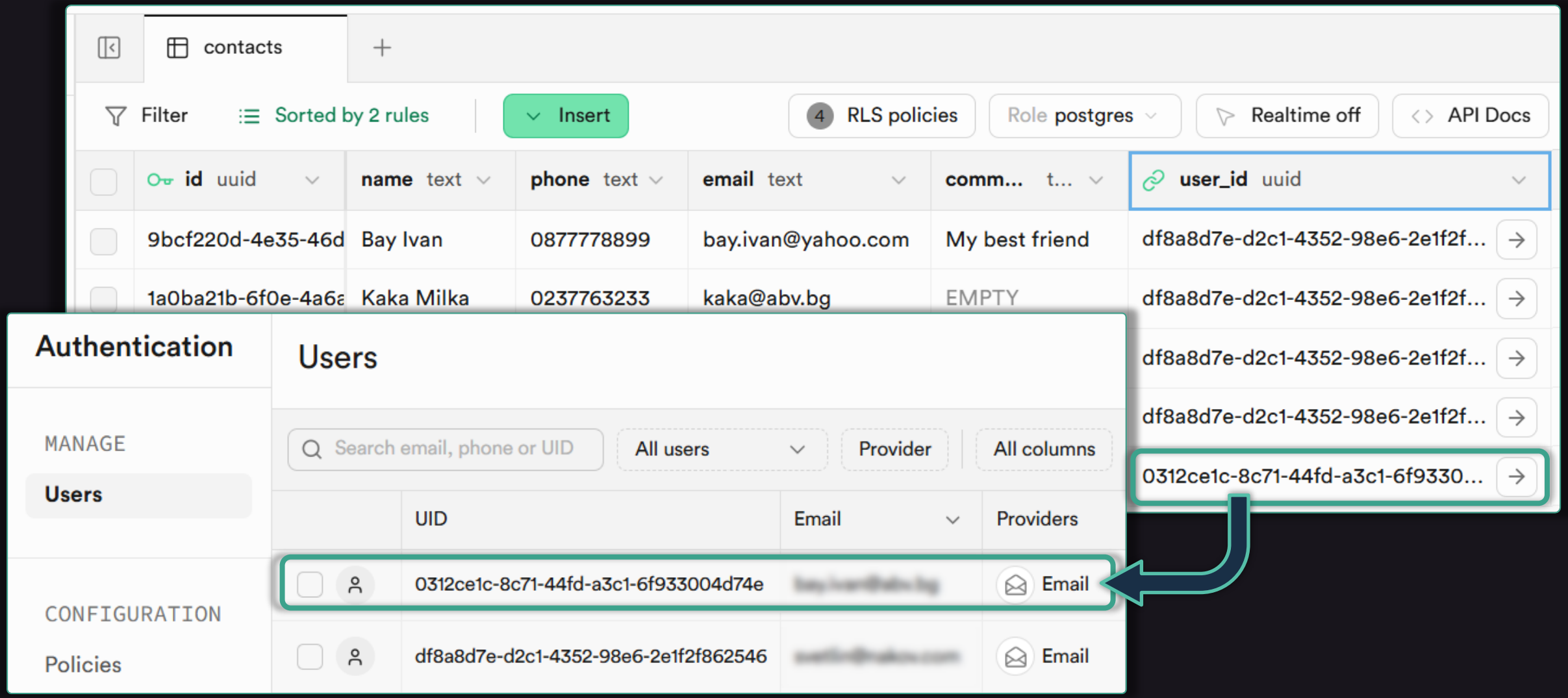




Contactbook with Sample Contacts

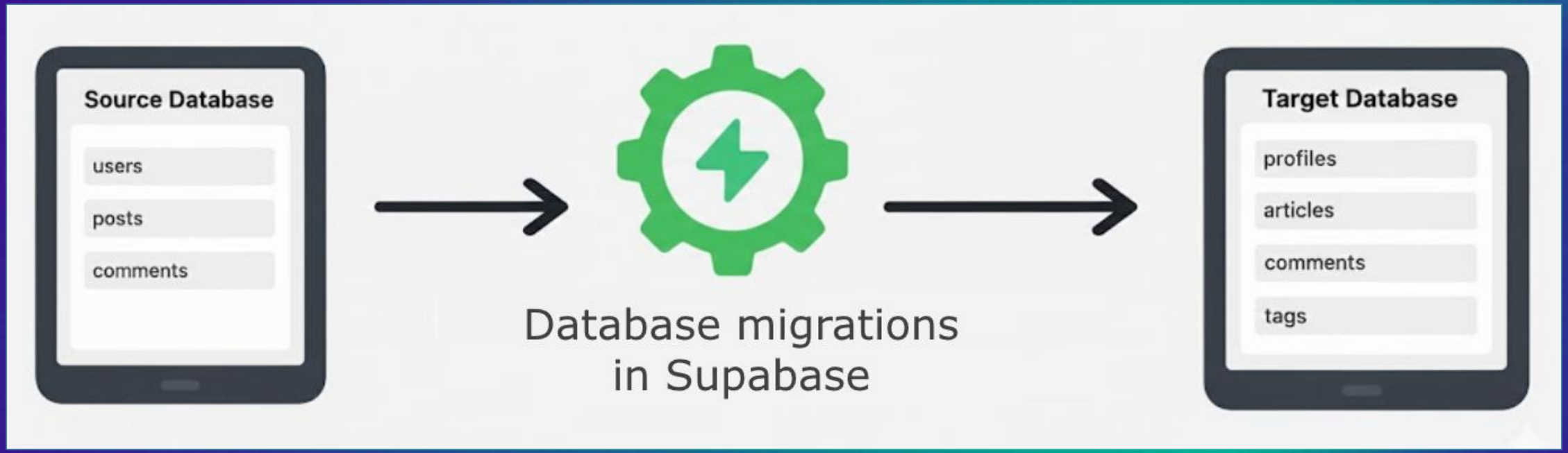


Users and Contacts Tables in the DB



Database Migrations

Tracking DB Schema Modifications in Supabase



Database Migrations

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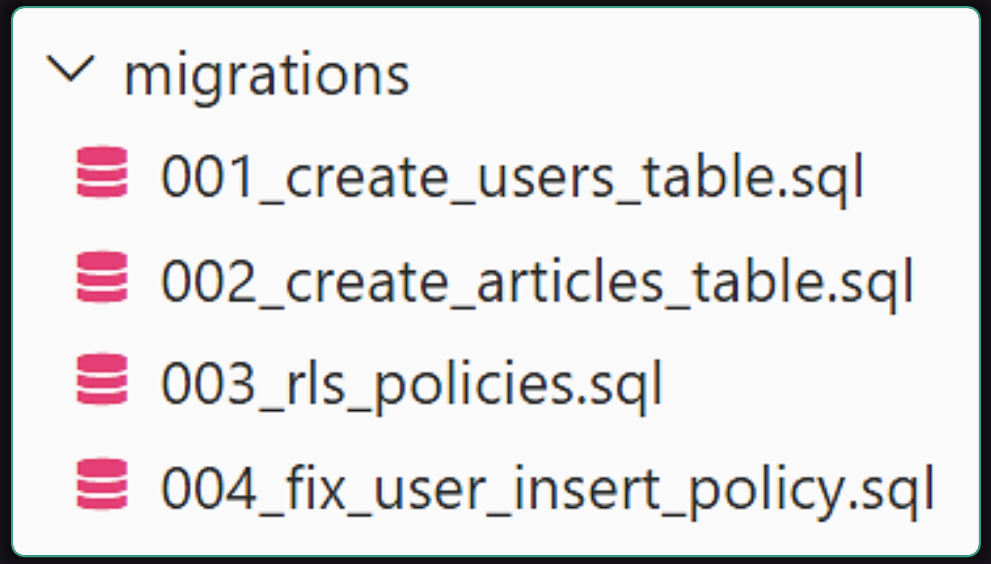
- **Database migrations** are how developers safely version, share, and deploy changes to the PostgreSQL schema
  - Track changes in tables, columns, functions, policies, etc. are stored as **SQL scripts**, ordered by **time**



migrations > 002_create_articles_table.sql

```sql
-- Create articles table
CREATE TABLE articles (
  id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
  owner_id UUID NOT NULL REFERENCES users(id) ON DELETE CASCADE,
  title TEXT NOT NULL,
  content TEXT NOT NULL,
  created_at TIMESTAMP WITH TIME ZONE DEFAULT CURRENT_TIMESTAMP,
  updated_at TIMESTAMP WITH TIME ZONE DEFAULT CURRENT_TIMESTAMP
);

-- Create indexes for better query performance
CREATE INDEX idx_articles_owner_id ON articles(owner_id);
CREATE INDEX idx_articles_created_at ON articles(created_at DESC);

-- Enable Row Level Security
ALTER TABLE articles ENABLE ROW LEVEL SECURITY;
```

Supabase Migrations

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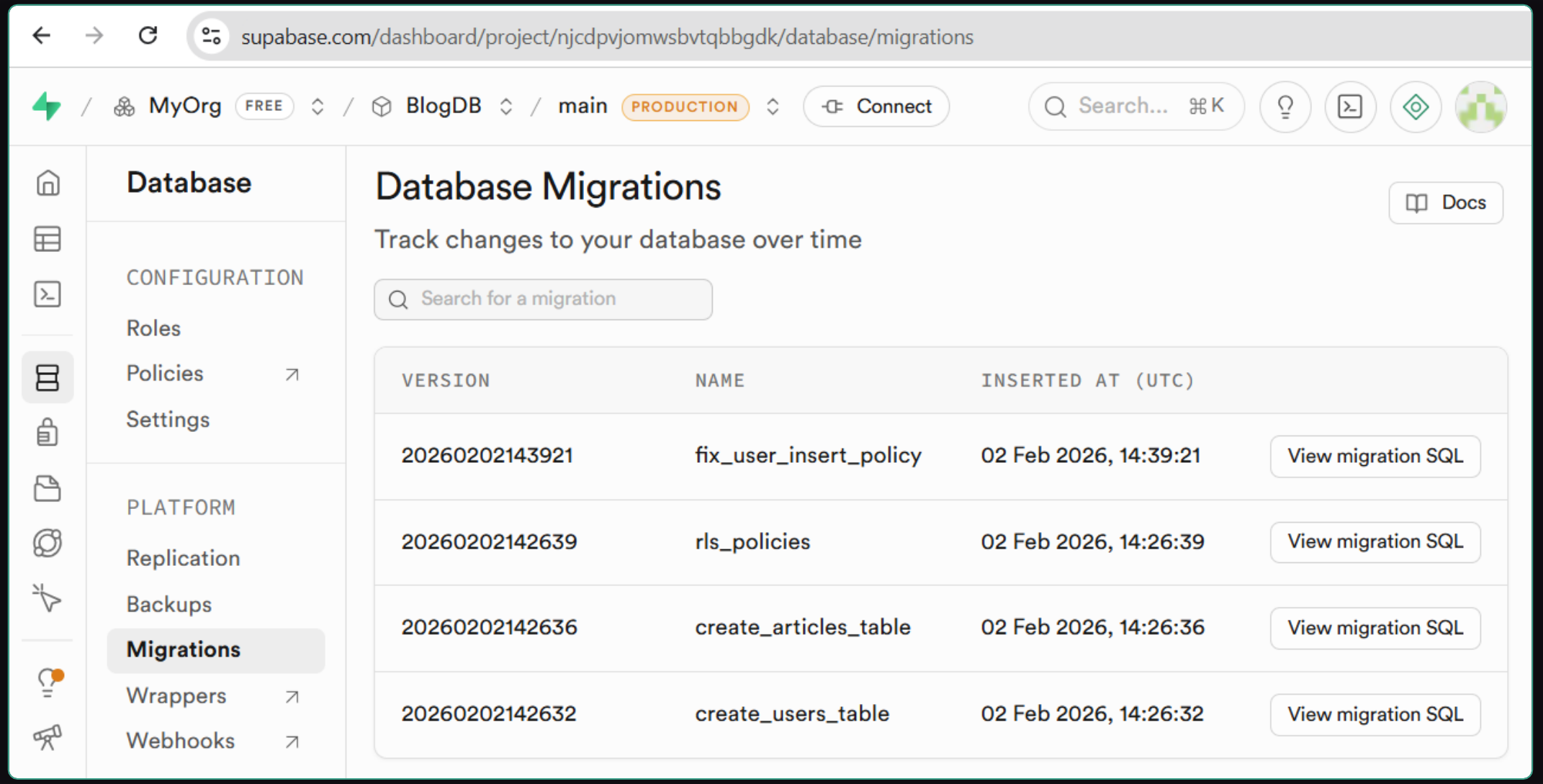
- **Supabase** has its own **migration infrastructure**
  - Local **SQL files** in the `**supabase/migrations**` folder
    - These files are part of your project **source code**
    - It is committed to **Git** and version tracked
    - Once created, a migration SQL file is **never changed**
  - **Migration history table** in the DB: **supabase_migrations.schema_migrations**
    - It holds the migrations already **applied** to the DB schema

Supabase Migrations – Example



Working with Migrations

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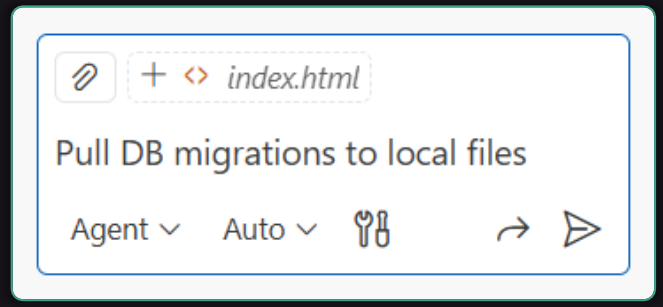
- **Supabase MCP** typically creates **migrations** for each change it makes in the DB schema
- If not explicitly requested, Supabase migrations stay inside the **database only** (local SQL files are missing)
  - This is **wrong**: DB schema migrations are part of **the code**
- Run this **AI prompt** to store all DB migrations to **local files**

Pull DB migrations to local files



Example: Contactbook Migrations

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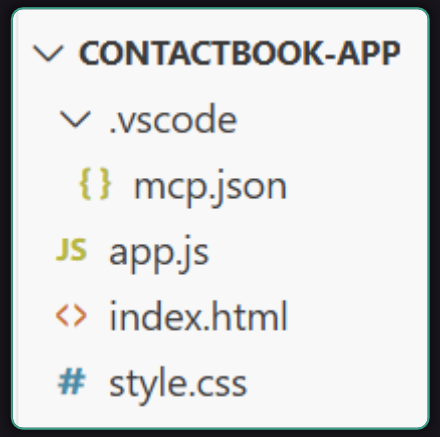
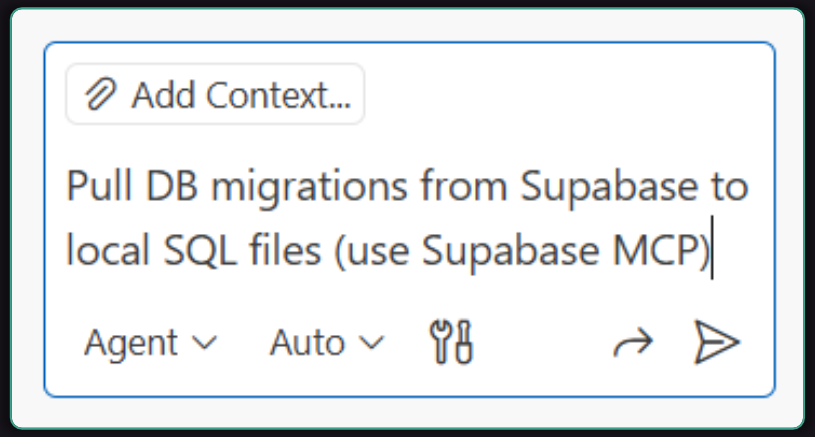
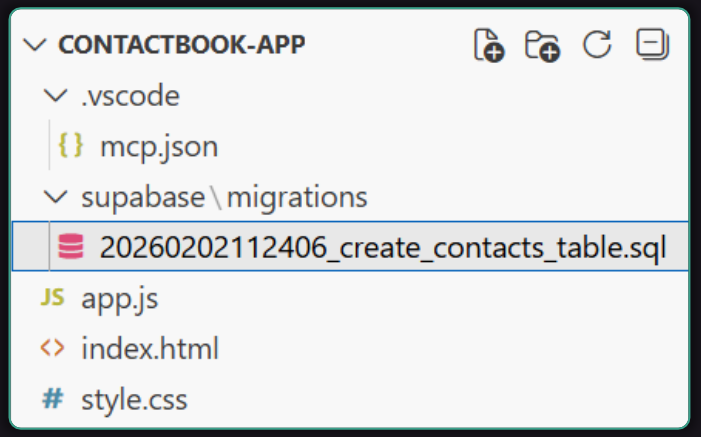
- Let's take the **Contactbook app** from the previous example
  - Simple app, which holds contacts in **Supabase** and implements **login**, **view** / **add** / **edit** / **delete** contacts, **logout**
- The app code does not have any DB migrations scripts:



- Let's **pull the migrations** from Supabase to local SQL files:





Example: Creating New Migrations

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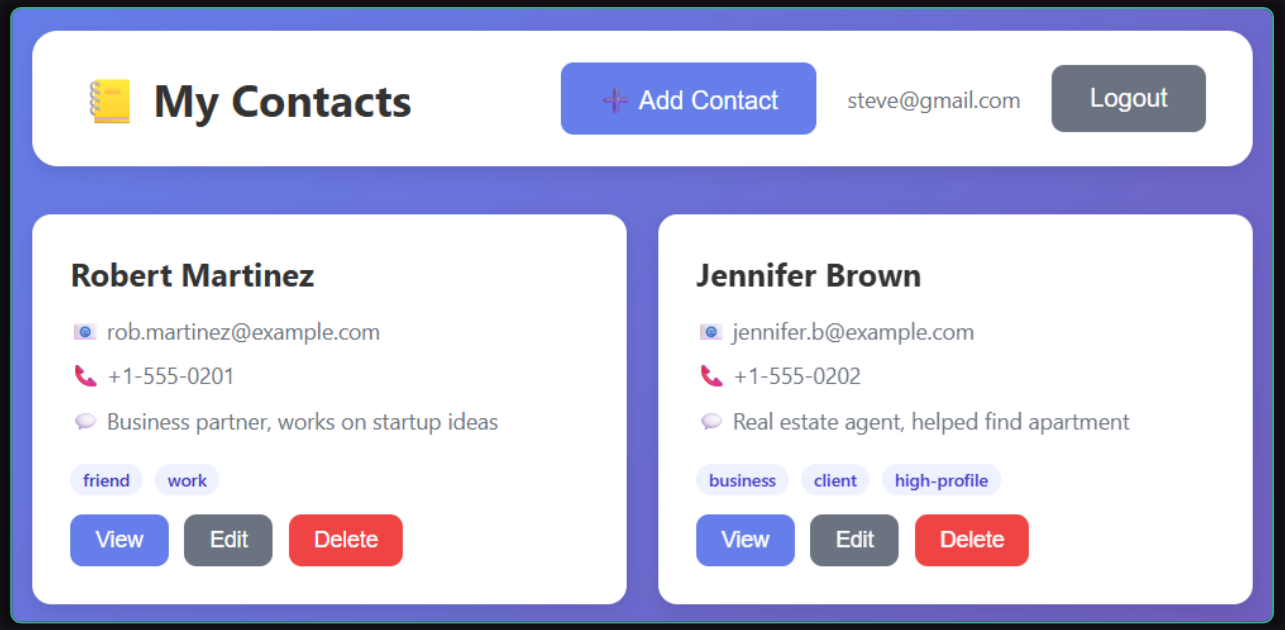
- Let's **implement tags** in the Contactbook app
  - This will create a **migration** to add **new tables** in the DB
  - It will also **extend the app UI** to display and edit tags

Implement tags in the Contactbook **contacts**:
- Add and run migrations to add relevant tables to the DB
- Extend the app **UI** to display and edit tags



Migrations as SQL in the DB

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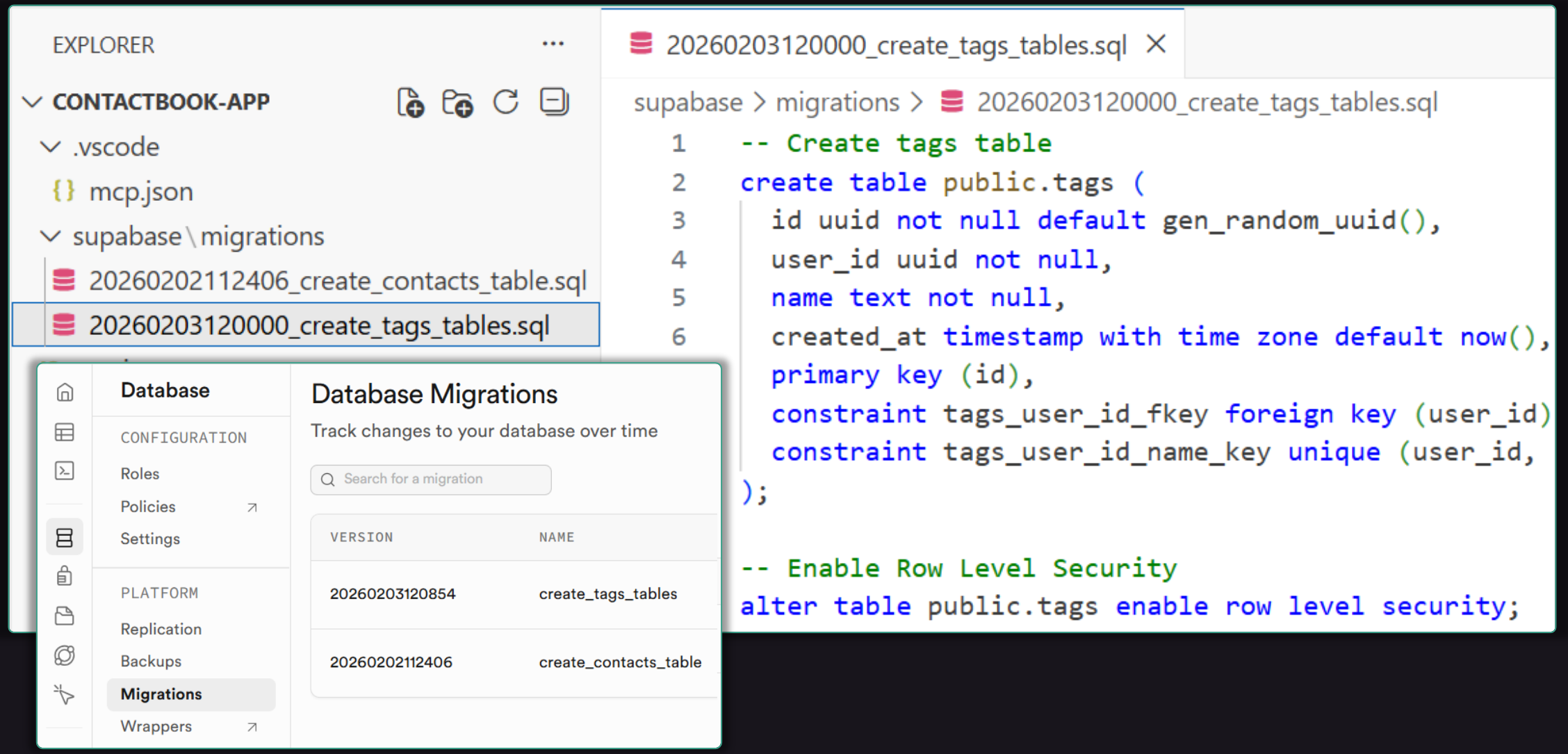
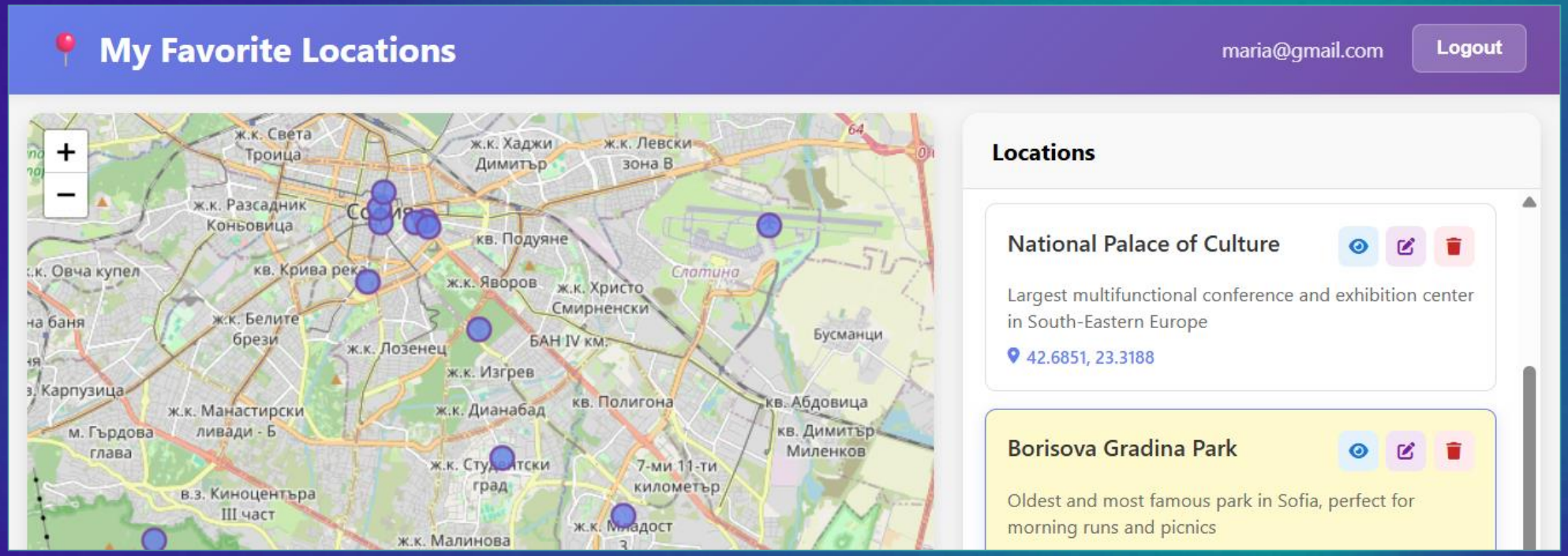


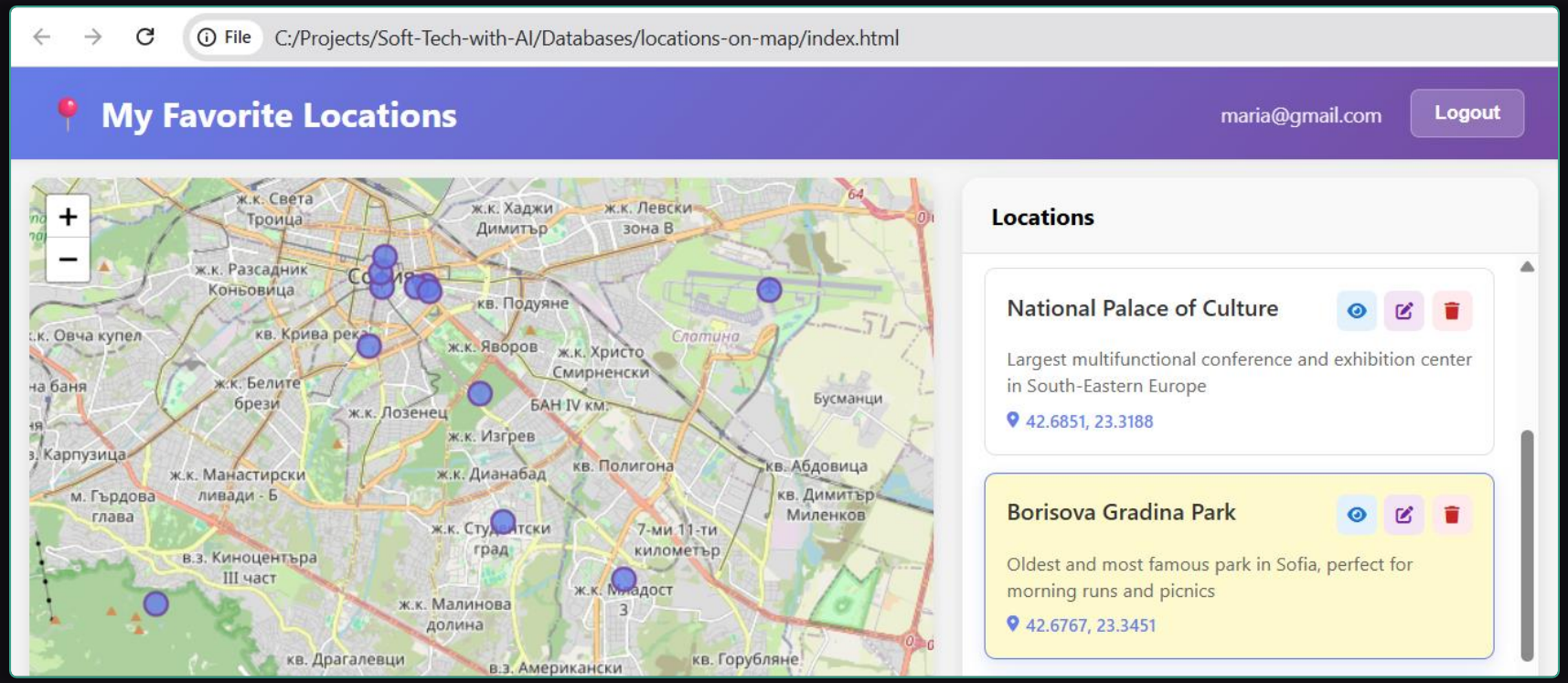
Locations on the Map

Building an App with Supabase Back-End with Users, Data, RLS Policies and Migrations



Example: Locations on the Map

- Let's create an app with **Supabase MCP** and **DB migrations**
- **Locations on the Map** app: users log-in and pin locations on a visual map with locations editor of the right



Locations on the Map: Supabase DB

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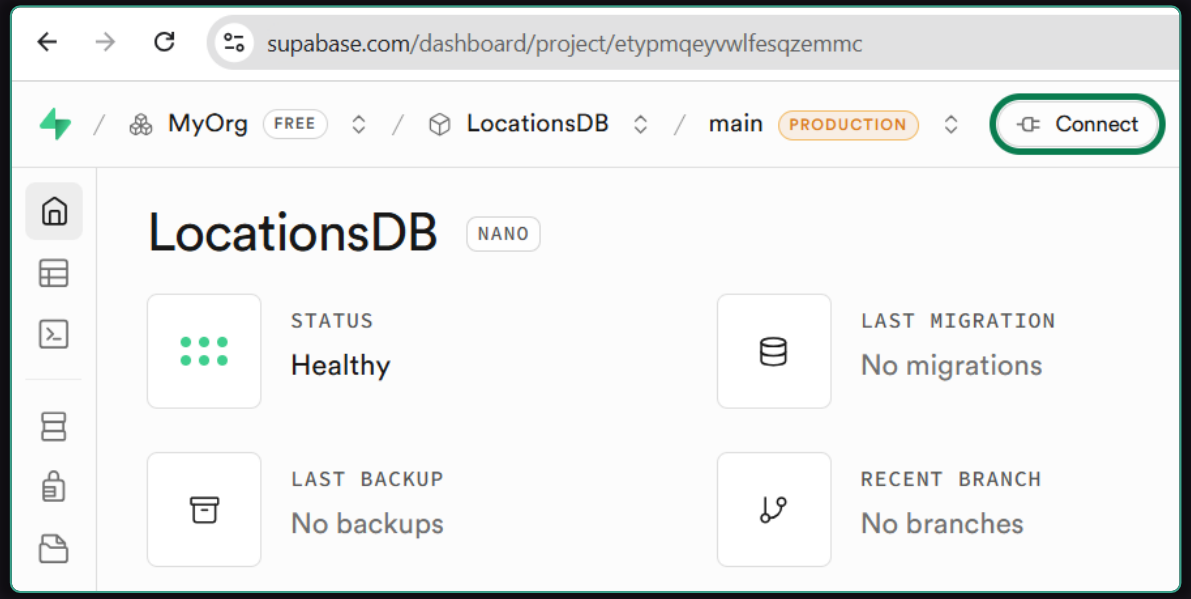
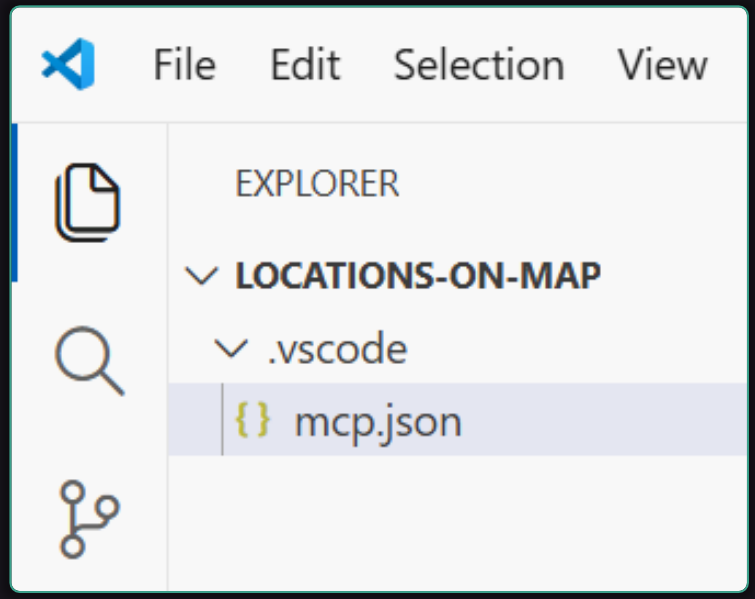
- **Step 1: Supabase Project + MCP Server**
  - Create a new **project in Supabase**
  - Install the **Supabase MCP**: Supabase Dashboard → Connect → MCP → VS Code → Install in Workspace → Authorize





Locations on the Map: DB Schema

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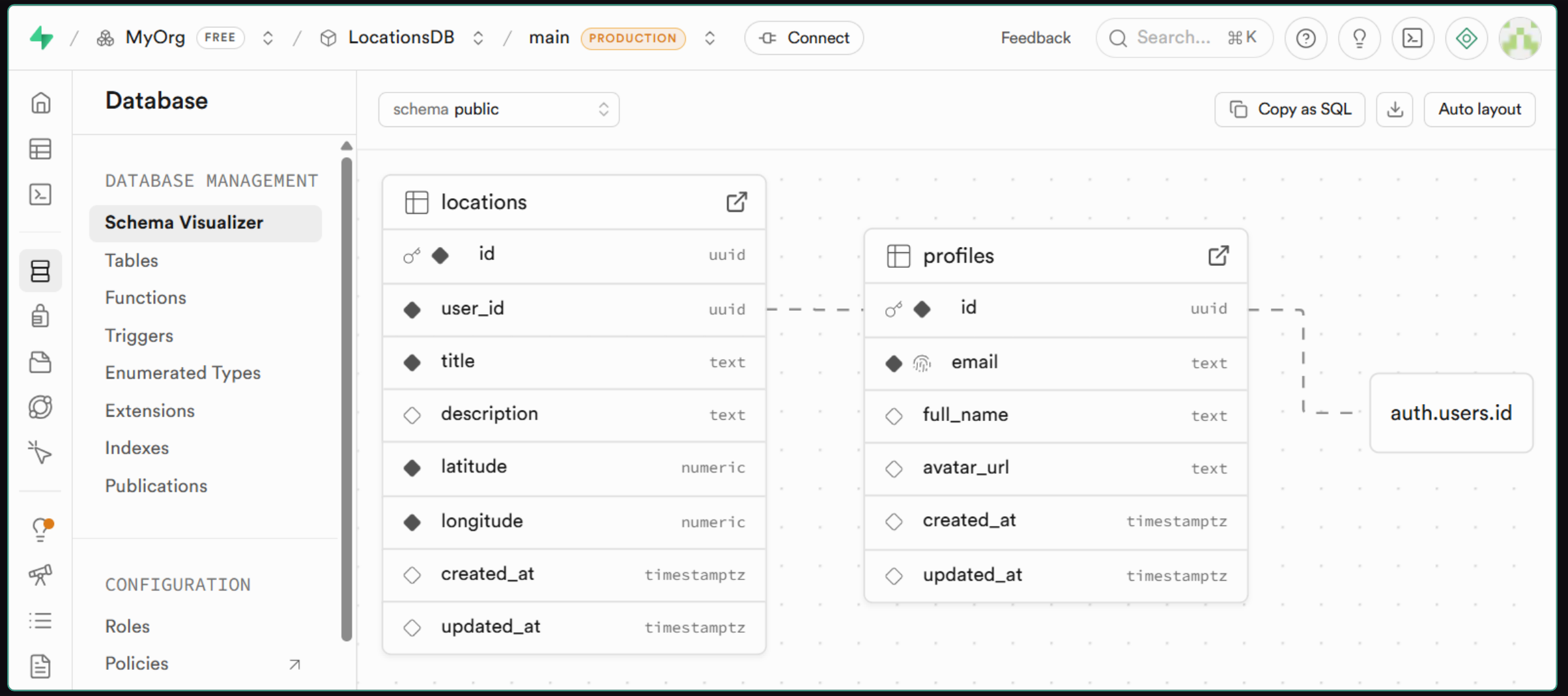
- **Step 2**: **Create the DB Schema** for the app

Create the **DB schema** for the app "**Locations on the Map**"
- Use **Supabase** as backend to store **users** and **locations**
- Create a **DB schema** to hold locations on a map
  - **Users** have their own **lists of locations**
  - Each **location** holds **GPS coordinates** + **title** + **description**
- Use the **Supabase MCP** to access the DB directly
- Keep track of **DB migrations** as local SQL files
- Define **RLS policies** to protect users' data

Locations DB Schema – Example



Locations on the Map: Create Users

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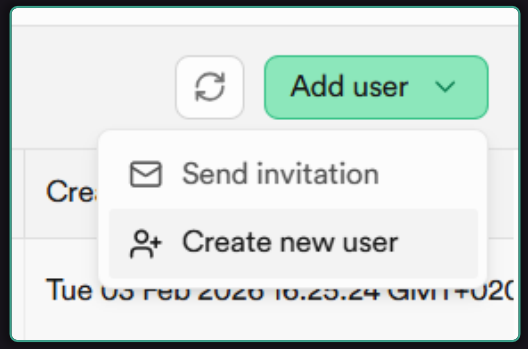
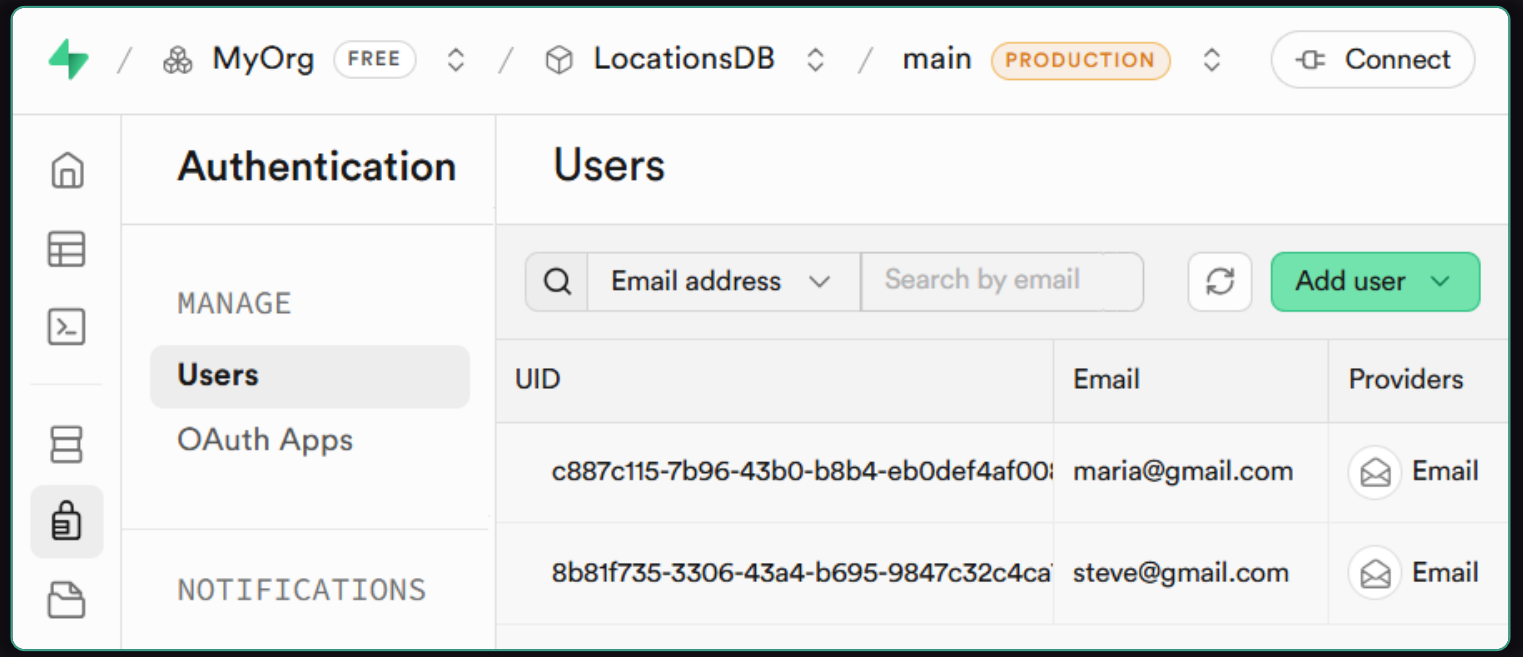
- **Step 3**: Create **users** in Supabase
  - Using Supabase Studio, **register sample users** in the Supabase Auth system:
  - maria@gmail.com / pass123
  - steve@gmail.com / pass123
- **Note**: Supabase MCP cannot register users





Locations on the Map: Sample Data

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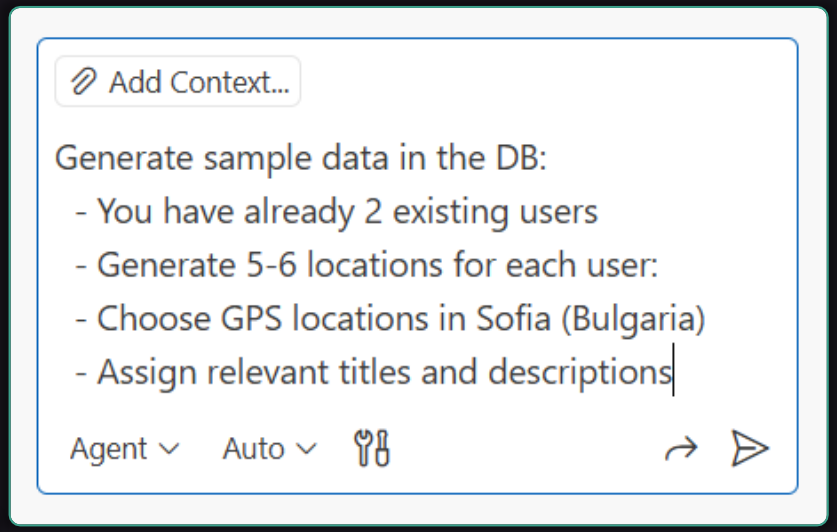
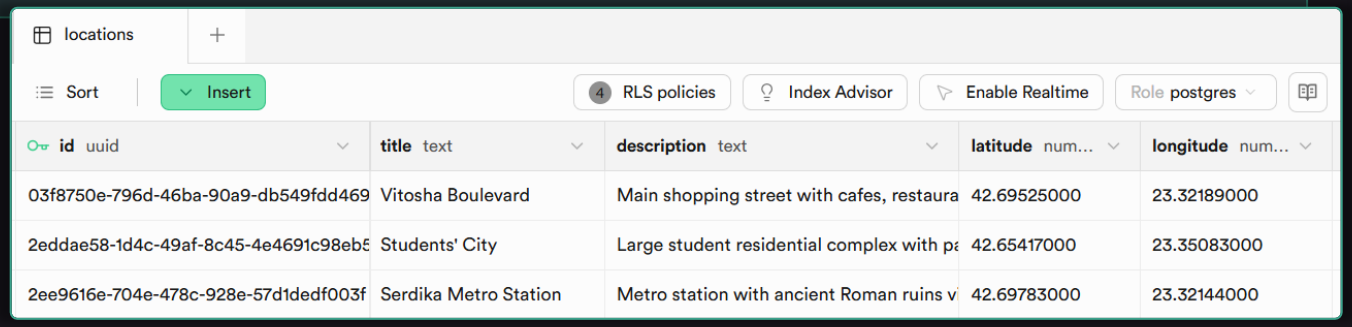
- **Step 4**: Generate **sample data**
  - Using Supabase MCP, **generate sample data** in the DB:

Generate **sample data** in the DB:
- You have already 2 **existing users**
- Generate **5-6 locations** for each user:
- Choose **GPS locations** in Sofia (Bulgaria)
- Assign relevant **titles** and **descriptions**





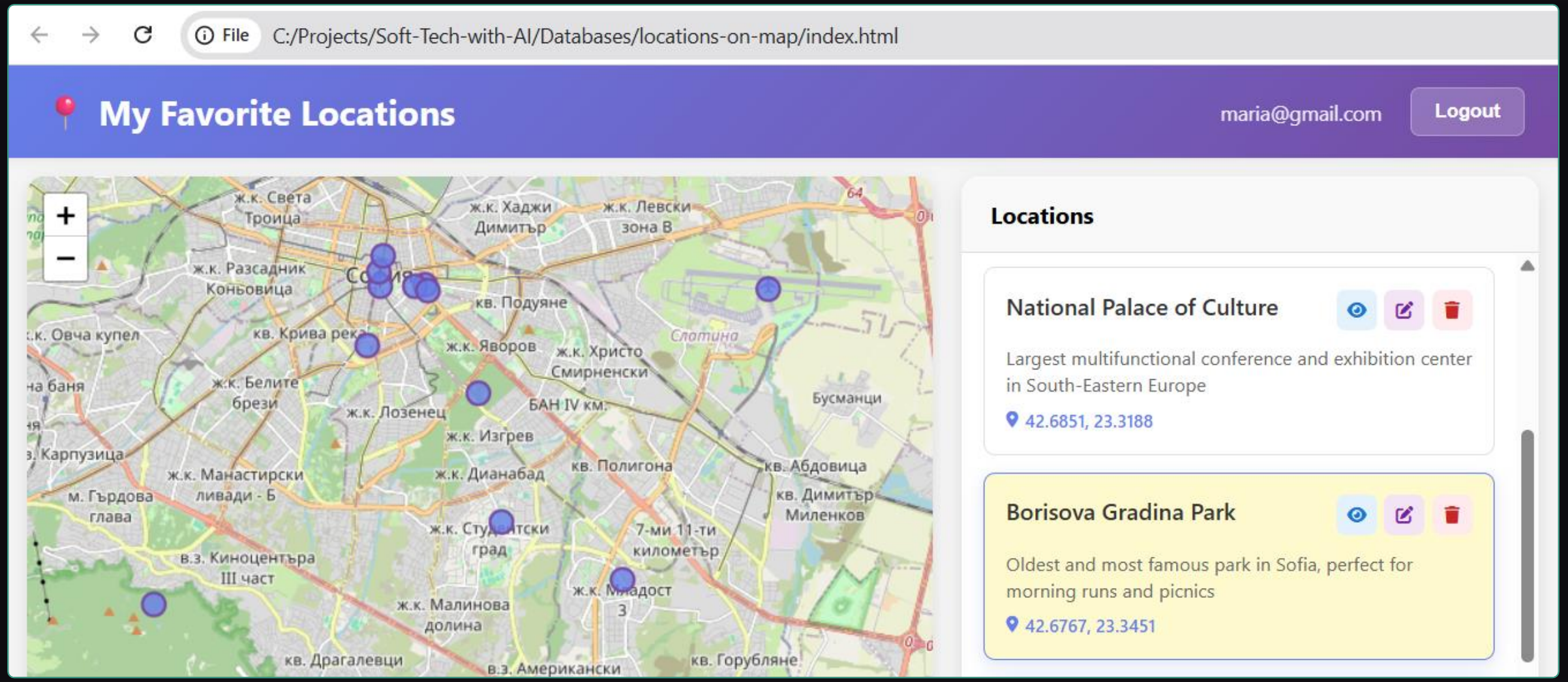
id uuid	title text	description text	latitude num...	longitude num...
03f8750e-796d-46ba-90a9-db549fdd469	Vitosha Boulevard	Main shopping street with cafes, restaura	42.69525000	23.32189000
2eddae58-1d4c-49af-8c45-4e4691c98eb5	Students' City	Large student residential complex with pa	42.65417000	23.35083000
2ee9616e-704e-478c-928e-57d1dedf003f	Serdika Metro Station	Metro station with ancient Roman ruins v	42.69783000	23.32144000

Locations on the Map: Create the App

- **Step 5**: Create the **app "Locations on the Map"**

Create an app to visualize favorite locations on a map
- Features: **login** / **logout**, **manage** locations, **visualize** as pins
- Use simple **HTML** + **CSS** + **JavaScript** code
- Use a standard **map UI** component like **Leaflet**
- Display the map visually with **pins** (pinned locations)
- All **locations** are shown on the right side as list of **cards**
  - Click on the map to **create a pin** at certain location (use a popup)
  - Implement **view**, **edit** and **delete** location cards with popups
- **Pin click** shows the location on the right; **location click** shows the pin
- Use **icons** to make view, edit and delete buttons small

Locations on the Map – The App



Row-Level Security (RLS)

Defining Database-Level Access Control

SQL CREATE POLICY

Row-Level Security (RLS)

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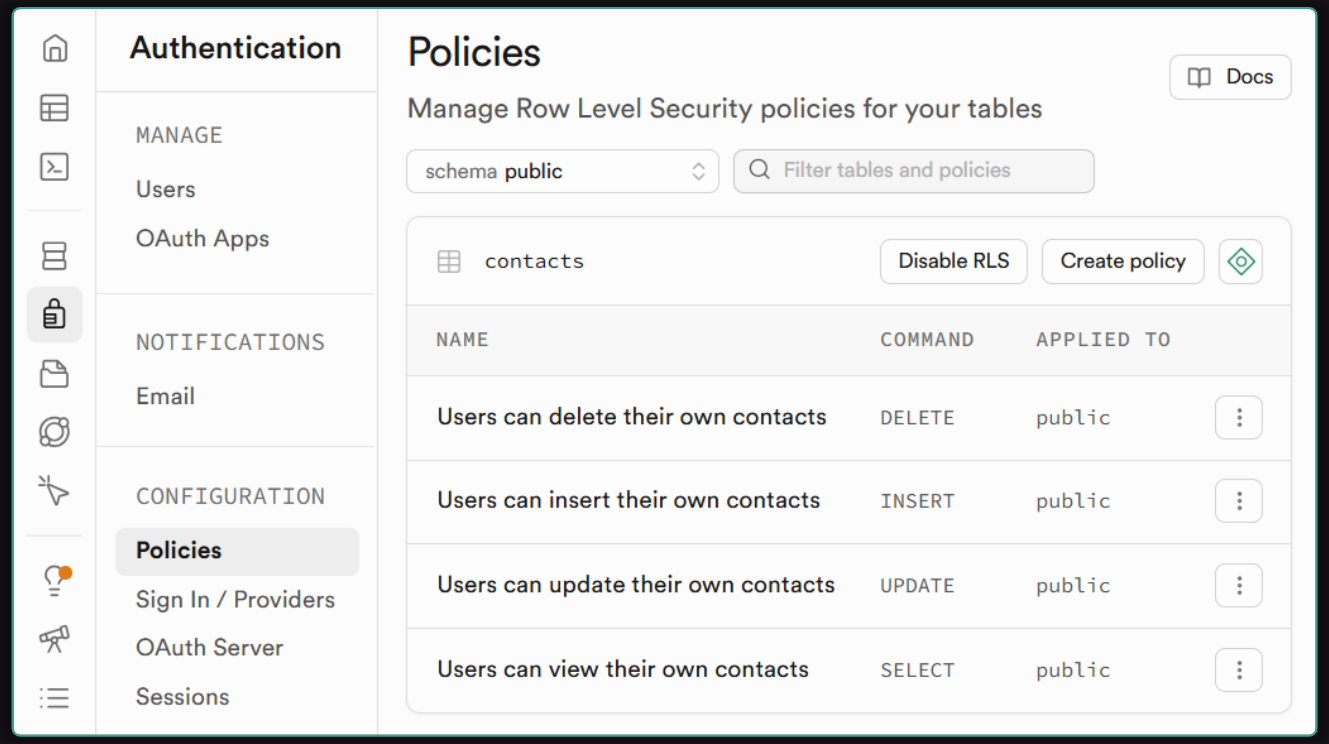
- **Row-Level Security** (RLS) defines which rows a user can read or write (access control)
  - Defined by **security policies** in the database (SQL code)
  - Based on the **logged-in user**: anonymous / authenticated
- Typical RLS policy:
  - **Anonymous** users: can **read all public data**, e. g. products
  - **Authenticated users**: can read / write their **own data**, e. g. own products, own messages, own user profile
  - **Admin users**: can read / write **any data** in the DB

Sample RLS Policies

- Sample **RLS policies** in Supabase:




```
CREATE POLICY "Users can
update their contacts"
ON contacts FOR UPDATE
USING (
   (auth.uid() = user_id)
);
```

Blog System with Users and RLS

SoftUni AI

- We want to create a "**Blog**" web site
  - Site **visitors** can **view** and **read** all published articles
  - Visitors can **register** / **login**
  - Logged-in **users** can **post** articles, **edit** / **delete** own articles
  - **Articles** hold **title** + **owner** + **date** + **content**
- **Step 1**: Create a **Supabase project**
  - Supabase Dashboard → Projects → New project
- **Step 2**: Connect **Supabase MCP** to VS Code
  - Supabase Dashboard → Connect → MCP → VS Code

Blog System with Users and RLS (2)

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- **Step 3**: Create the **Blog web site** with users and RLS:

Create a "**Blog**" web site to view / publish blog articles:
  - Site **visitors** can **view** and **read** all published articles
  - **Articles** hold **title** + **owner** + **date** + **content**
  - Site visitors can **register** / **login**
  - Logged-in **users** can **post** articles, **edit** / **delete** own articles
- Hold **app data** (users, articles) in **Supabase DB**
    - Keep **DB migrations** in a local folder, synced with the DB
    - Define **RLS policies**: users create, edit, delete their own data
    - Generate **sample data** in the DB: a few blog articles (anonymous)
  - Use simple **HTML** + **CSS** + **JS**

Blog System with Users and RLS (3)

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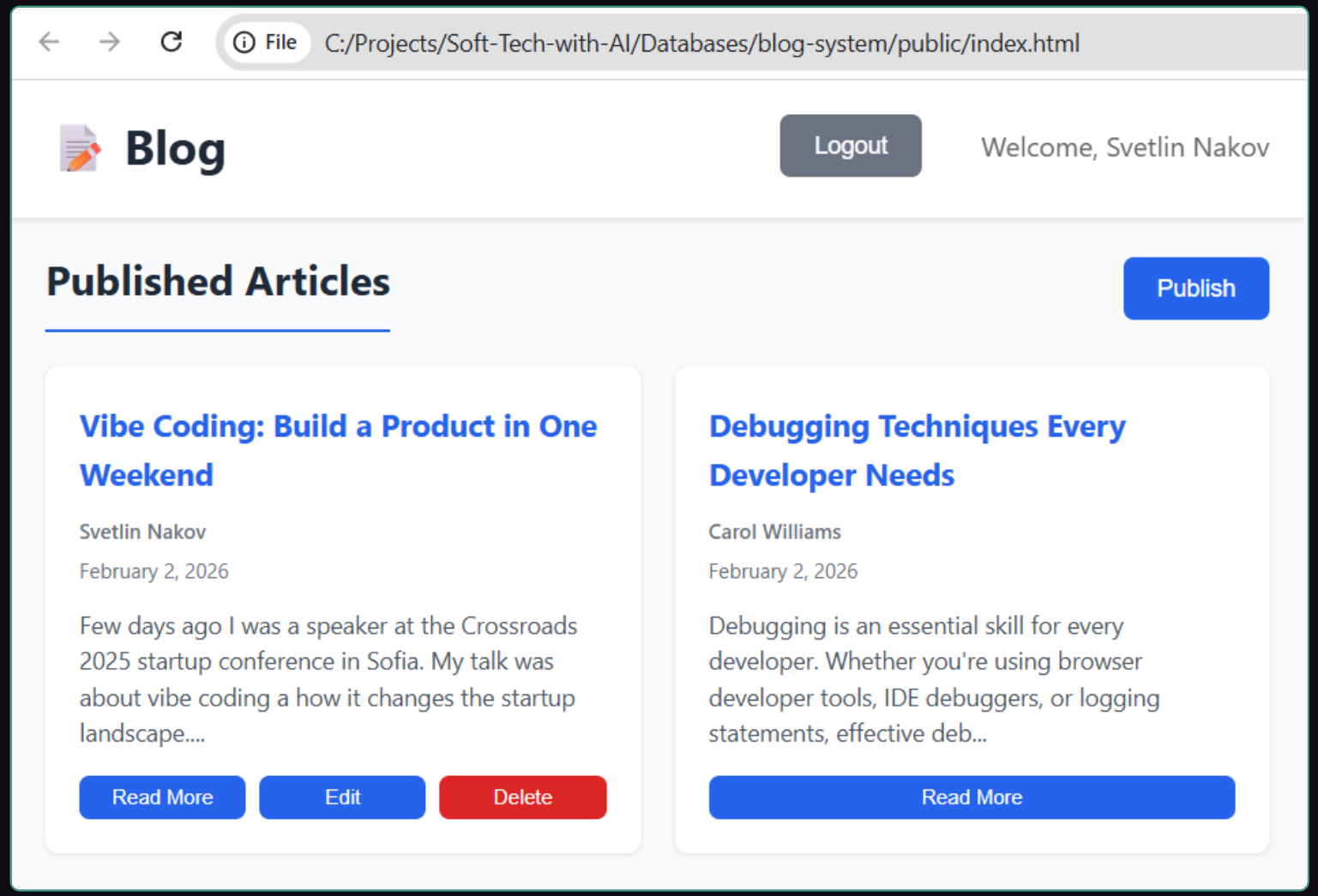
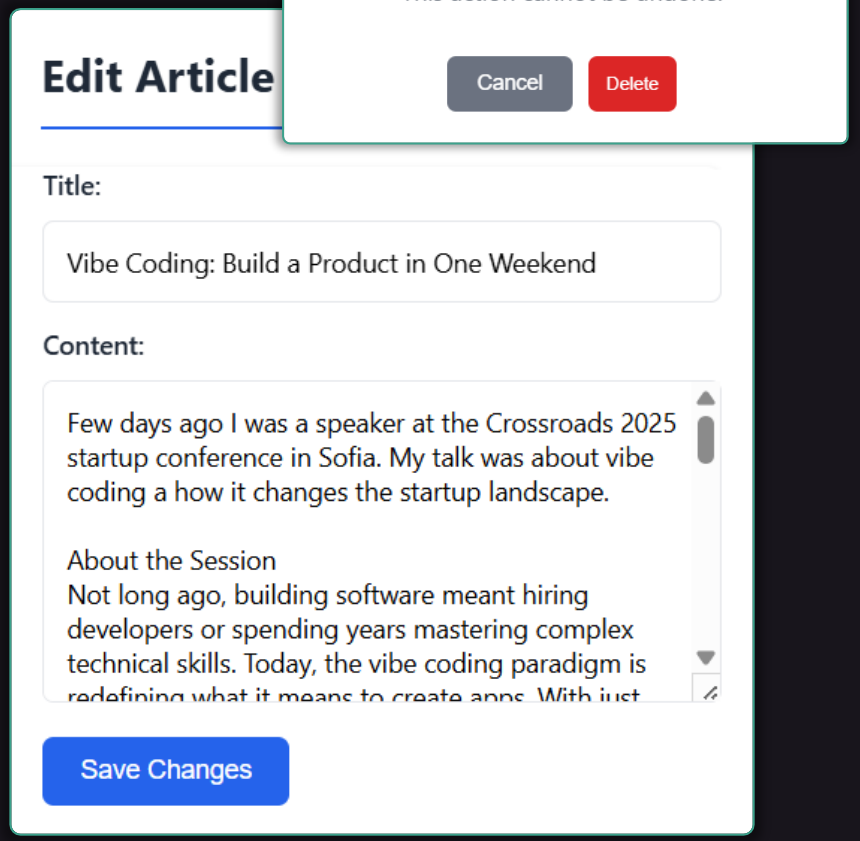
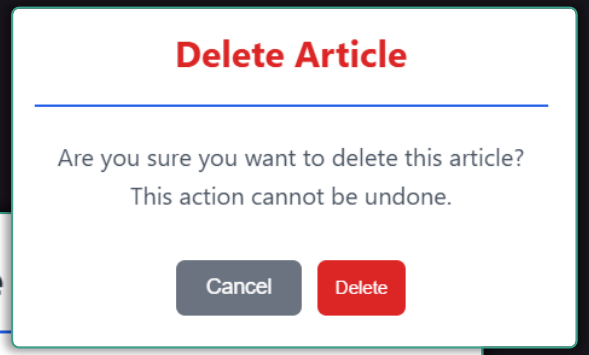


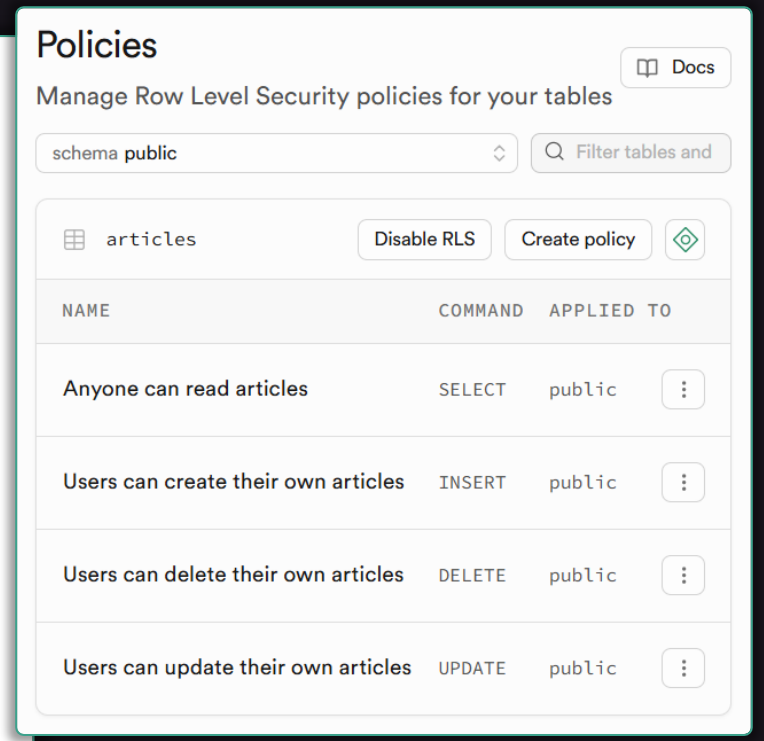




Blog System: RLS Policies

SoftUni AI

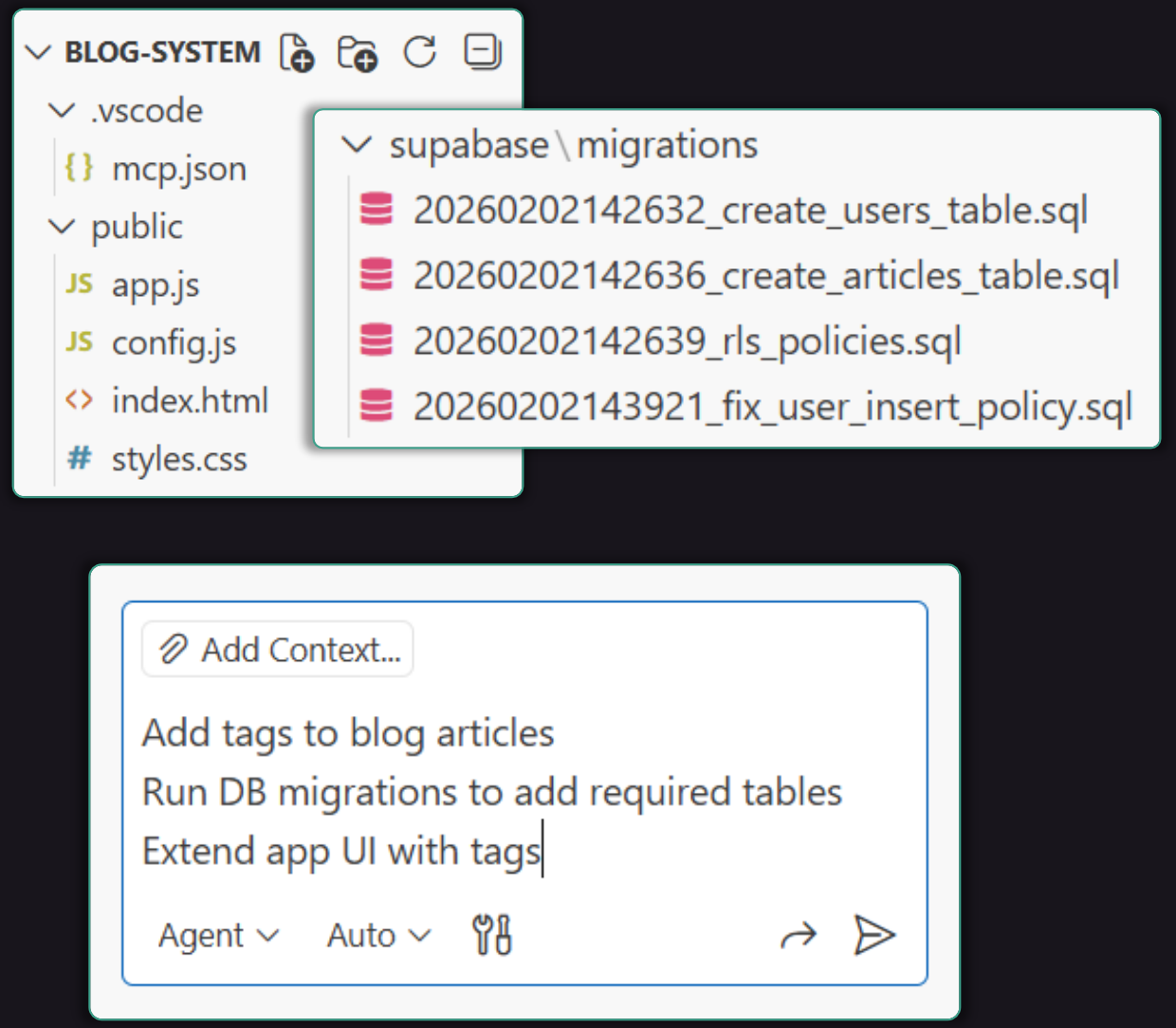
```sql
-- RLS Policies for articles table
-- Anyone can read published articles
CREATE POLICY "Anyone can read articles" ON articles
  FOR SELECT USING (true);

-- Users can only insert articles for themselves
CREATE POLICY "Users can create their own articles" ON articles
  FOR INSERT WITH CHECK (auth.uid() = owner_id);

-- Users can only update their own articles
CREATE POLICY "Users can update their own articles" ON articles
  FOR UPDATE USING (auth.uid() = owner_id);

-- Users can only delete their own articles
CREATE POLICY "Users can delete their own articles" ON articles
  FOR DELETE USING (auth.uid() = owner_id);
```



Example: Blog System Migrations

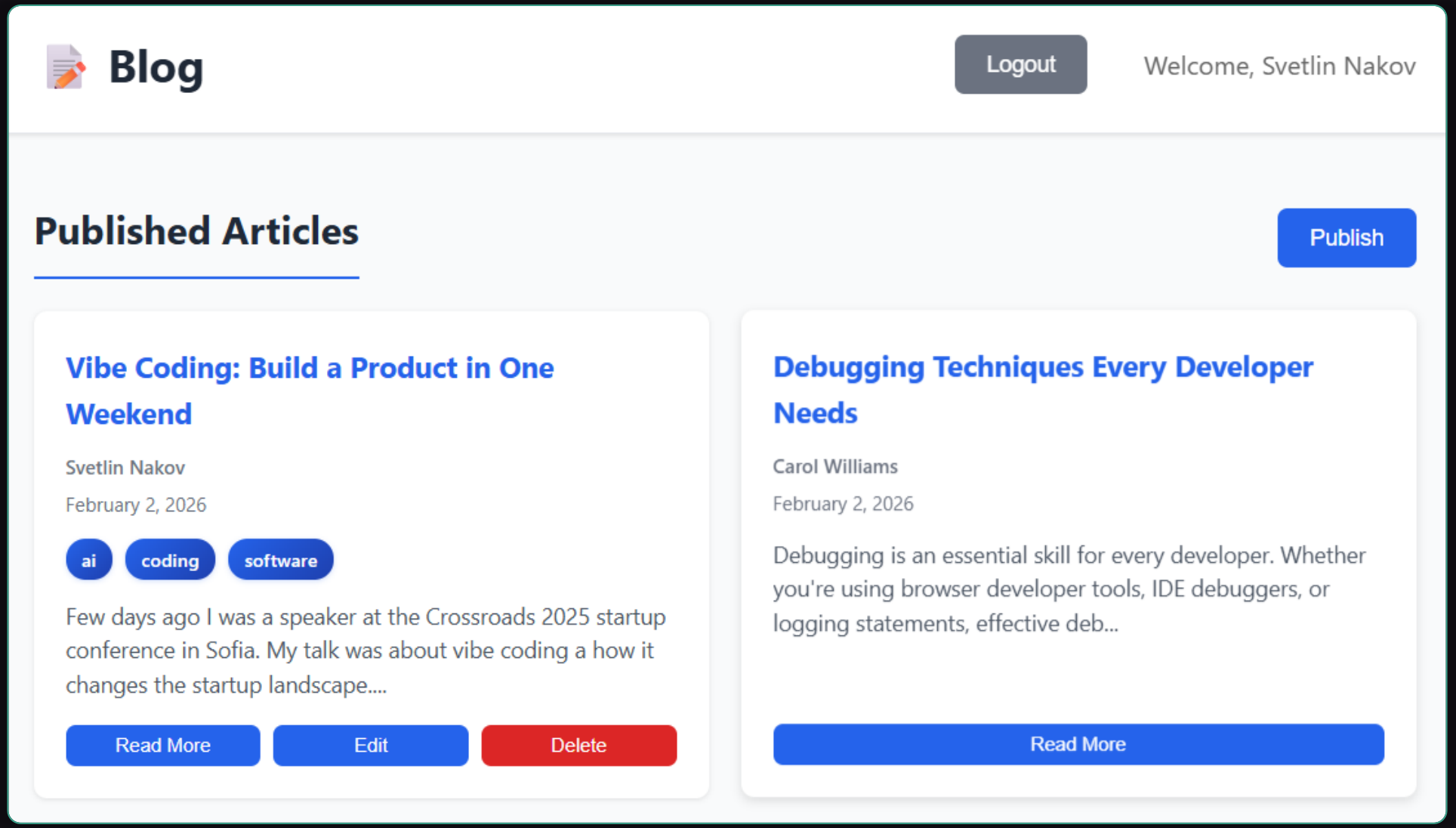
SoftUni AI

- The source code now holds:
  - **App code** (HTML, CSS, JS)
  - **DB migrations** (SQL)
- Now, let's implement **new functionality** in the blog:
  - **Add tags** to blog articles
  - This will add **DB migrations**
  - Will extend **app UI** with tags



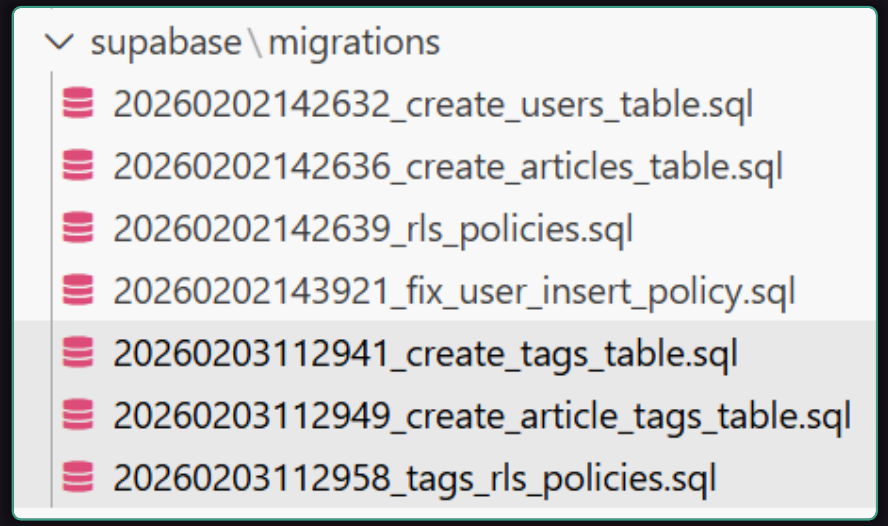
Example: Blog with Tags

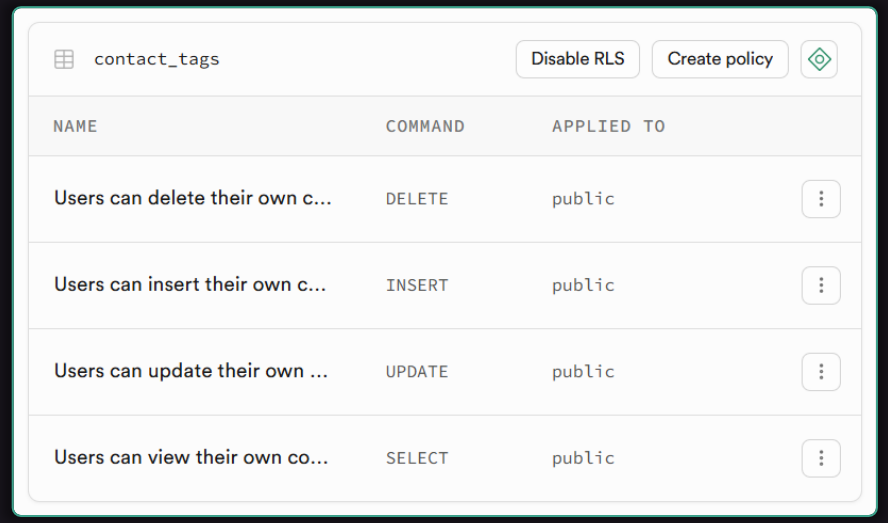
SoftUni AI



Blog System: RLS Policies

SoftUni AI



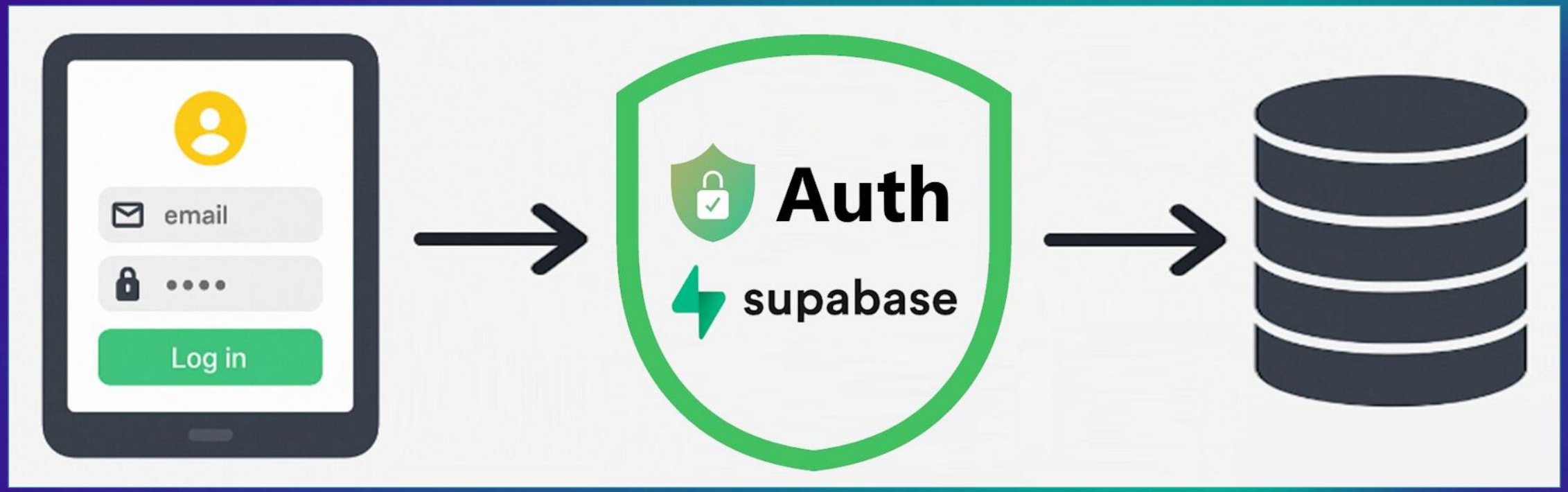


supabase > migrations > 20260203112958_tags_rls_policies.sql

```sql
-- RLS Policies for tags table
-- Anyone can read tags
CREATE POLICY "Anyone can read tags" ON tags
  FOR SELECT USING (true);

-- Authenticated users can create tags
CREATE POLICY "Authenticated users can create tags" ON tags
  FOR INSERT WITH CHECK (auth.uid() IS NOT NULL);

-- No one can update or delete tags (once created, they persist)
-- If you want to allow updates/deletes, uncomment these:
-- CREATE POLICY "Authenticated users can update tags" ON tags
--   FOR UPDATE USING (auth.uid() IS NOT NULL);
-- CREATE POLICY "Authenticated users can delete tags" ON tags
--   FOR DELETE USING (auth.uid() IS NOT NULL);

-- RLS Policies for article_tags table
-- Anyone can read article-tag relationships
CREATE POLICY "Anyone can read article tags" ON article_tags
  FOR SELECT USING (true);

-- Users can only add tags to their own articles
CREATE POLICY "Users can tag their own articles" ON article_tags
  FOR INSERT WITH CHECK (
    EXISTS (
      SELECT 1 FROM articles
      WHERE articles.id = article_id
      AND articles.owner_id = auth.uid()
    )
  );
```

Users and Roles

Database Apps with Users and Roles. Visitors, Regulars Users, Admins



Users and Roles

- **Access control** in most apps works with **users** and **roles**
  - Simple apps use hard-coded **roles** (e. g. **user** / **admin**)
  - Complex apps assign **permissions** for each role (e. g. "*view payments*" permission, "*edit payments*" permission)
- Typical access control policy:
  - **Anonymous** users: can **read all public data**, e. g. articles
  - **Authenticated users**: can read / write their **own data**, e. g. own articles, own messages, own user profile
  - **Admin users**: can read / write **any data** in the DB

JWT Tokens

SoftUni AI

- **JWT** (JSON Web Token) is modern **authentication** and **authorization** standard
  - Holds info about the **currently logged-in user**: **user_id** / **username**, **roles** and **permissions** (optional)
  - Holds a **digital signature**, created by the token issuer
- The **JWT token** is:
  - **Issued at login** (after credentials are verified)
  - **Sent with each request** to identify and authorize the user
  - **Removed** from the client at **logout** (to forget logged-in user)

Inside JWT Tokens

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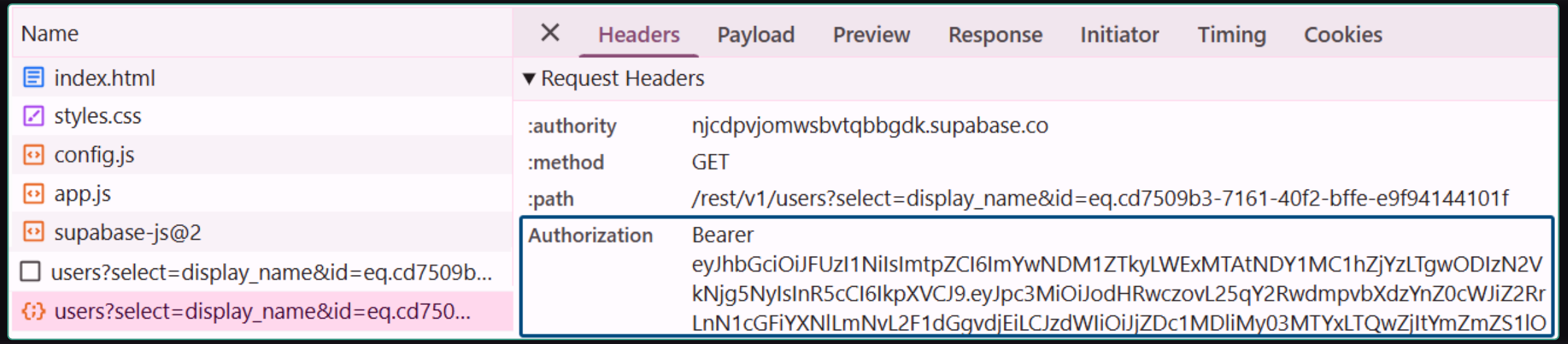
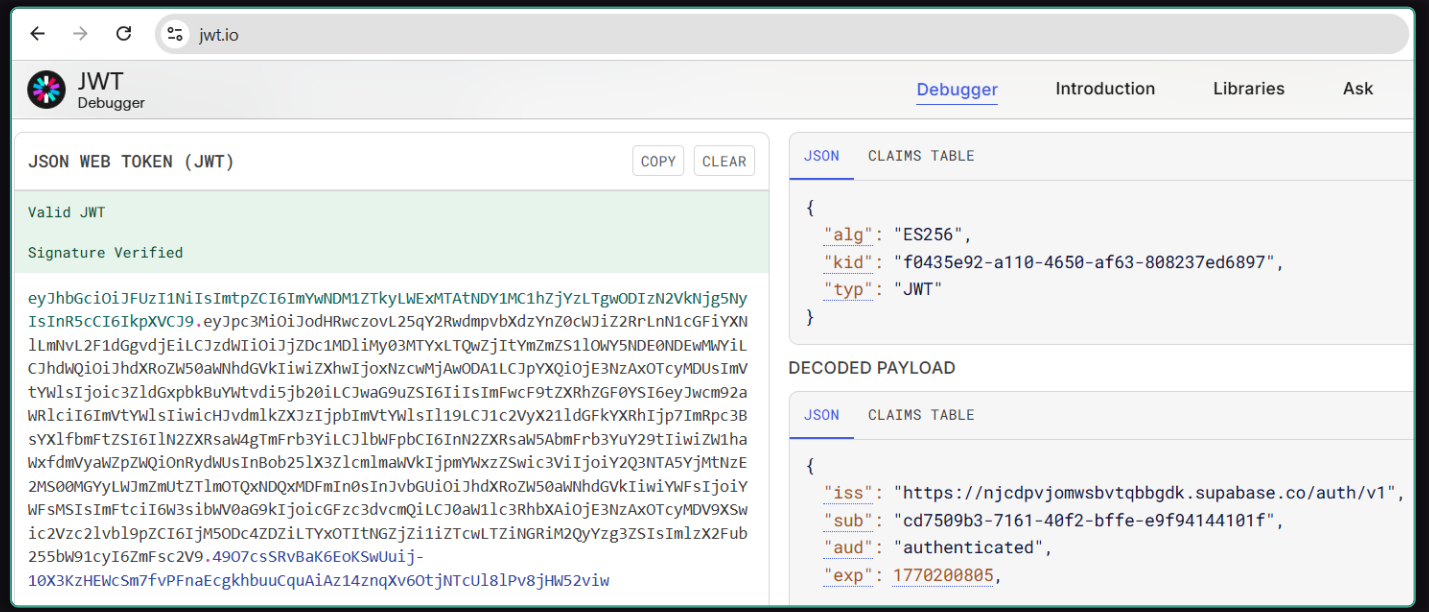


header	payload	signature
{ "alg": "ES256", "typ": "JWT" }	{ "sub": "jonny86", "iat": 1516239022 }	KMUFsIDTnF myG3nMiG M6H9FNFUR Of3wh7S...



Users and Roles in Supabase

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- **Supabase Auth** have built-in **user management** (register, login, external login, magic link login, JWT tokens, logout)
  - **Supabase Auth** does not provide **user roles** (e. g. admin)
  - Developers should implement **roles** by **custom code**
- Several **approaches** to define user roles in Supabase:
  - Use **auth.users.app_metadata** → simple, but can't edit roles after signup (only with edge functions)
  - Use **user_roles** table + **RLS joins** → easy and correct
  - Use **user_roles** table + **RLS** + **Auth hooks** → better performance

Users and Roles in Supabase

SoftUni AI

- Recommended approach to **implement roles** in Supabase:
  - Enum: **app_role** (**user** | **admin**)
  - Table: **user_roles** (**user_id**, **user_role**)
  - Define **RLS policies**:
    - Everyone can read **user_roles**
    - Database function **is_admin()**
    - Only admins can write **user_roles**
    - **Everyone** can **read public app data**
    - Only **owners** and **admins** can **edit app data**

Example: Blog with Admins

- We already have a **blog system**:
  - **Visitors** list and **view** blog articles
  - **Users** log-in, **create** / **edit** their **own articles**

- Now we want to **implement admins**:
  - **Admins** will have **unrestricted read / write access** to all app data
  - View / edit / delete user's articles
  - **Manage users**: view / create / edit / delete users

Implementing Blog Admins in DB

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- **Step 1**: Define **users and roles** in the Supabase DB

Implement **user roles** in Supabase:
- Enum: **app_role** (**user** | **admin**)
- Table: **user_roles** (**user_id**, **user_role**)

user_id uuid	user_role app_role
311ab519-1500-4023-b9...	admin
cd7509b3-7161-40f2-bff...	admin

Define **RLS policies**:
- Everyone can **read user_roles**
- Database function **is_admin()**
- Only **admins** can **write user_roles**
- **Everyone** can **read** public app data
- Only **owners** and **admins** can **edit** app data

Implementing Admin Panel

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- **Step 2**: Implement the Admin Panel

Implement the app **Admin Panel**:
- Use separate files: **admin.html**, **admin.css**, **admin.js**
- The admin panel should be available **only for admins**
  - Admins should have **[Admin]** button in the app header
- Two tabs: **Article Admin** | **User Admin**
- **Article Admin** tab: view all articles in a table with **[Edit]** and **[Delete]** buttons, implemented with popups
- **User Admin** tab: view all users, implement [Make Admin] / [Remove Admin] buttons

The Admin Panel in Action

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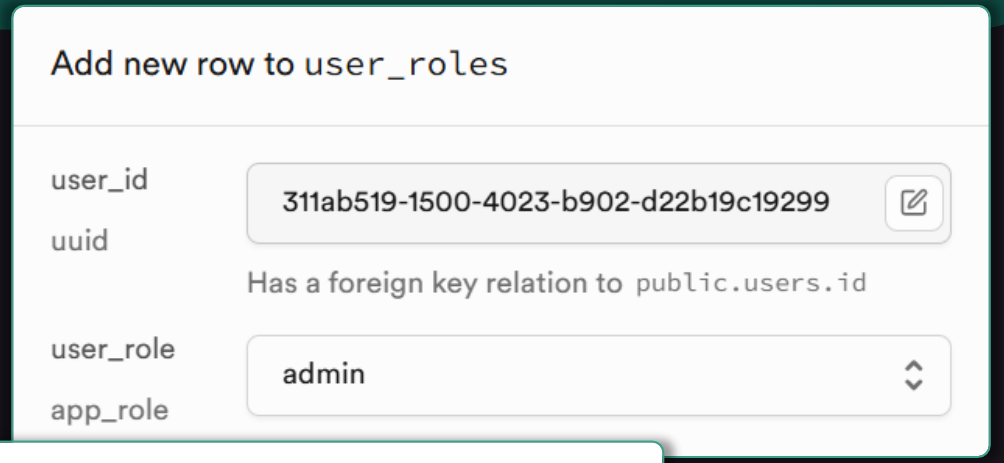
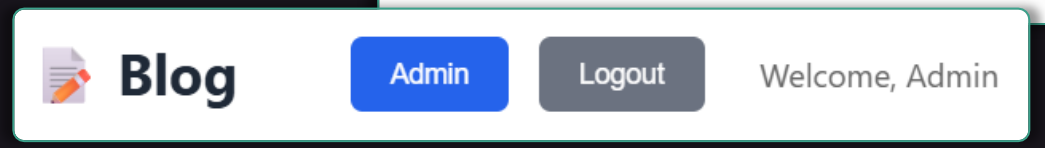
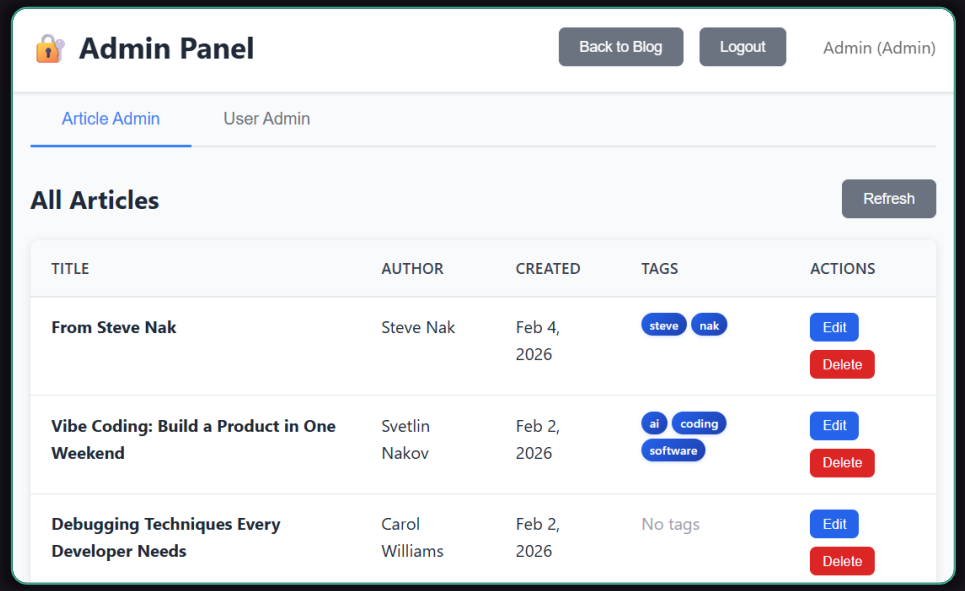
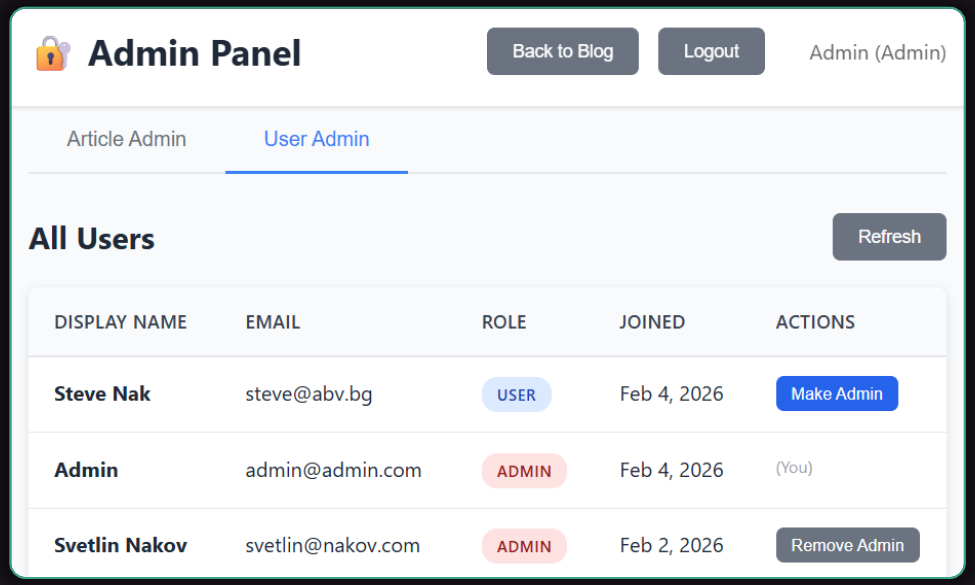
- First, **create an admin** from Supabase Studio
- Next, **login** with the admin user
- Open the **Admin Panel**



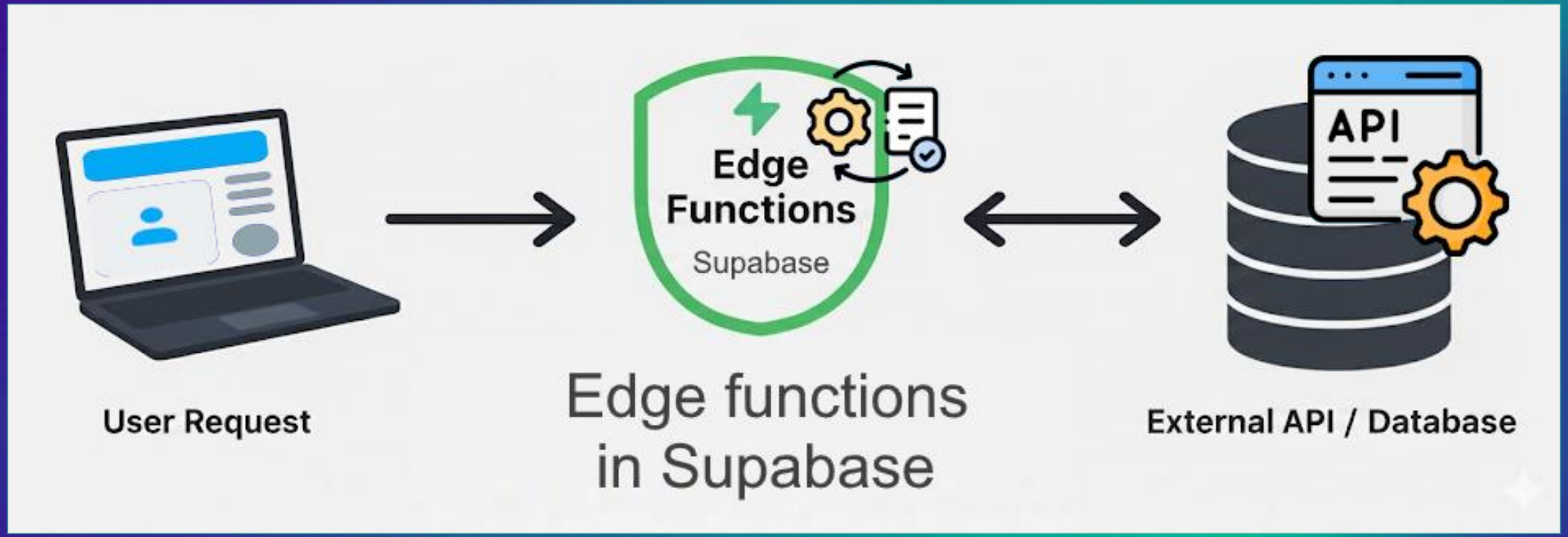






Edge Functions

JS Logic in the Supabase Backend



Supabase Edge Functions

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- **Supabase Edge Functions**
  - **Serverless functions**, acting as a lightweight back-end
  - Implemented in **JavaScript**, accessed through the API
  - Implement **payments**, **emails**, **webhooks** (Web callbacks)
  - Have **unrestricted DB access**, skipping the RLS policies
- **When** to use edge functions?
  - DB operations with **elevated privileges**: e. g. delete user
  - Access **external APIs**, e. g. send email, accept a payment, integrate an LLM (like ChatGPT or Gemini)

Serverless Example

- We already have a **blog system** with **admin panel**
  - **Visitors** read / view blog articles
  - **Users** log-in and **create** articles, **edit** / **delete** own articles
  - **Admins** have **admin panel**: edit articles and manage users
- Now we want to **implement full user management**
  - **Create** / **edit** / **delete** users
  - This requires **elevated privileges** for the DB
  - Can be implemented with **edge functions**

Manage Users with Edge Functions

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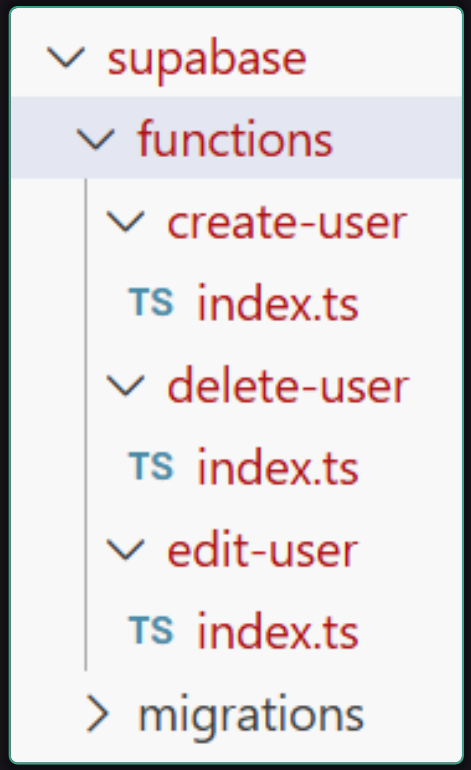
- Implement **full user management** with **edge functions**:

Implement user management in the **Admin Panel**:
- In the **User Admin** table add buttons [**Add**] / [**Edit**] / [**Delete**]
- Implement "Create user", "Edit user", "Delete user" with **edge functions** in the Supabase backend
- Use **popup dialogs** for add / edit / delete confirm
- Choose **user role** when creating / editing users



Deploy the edge functions to Supabase

Deployed Edge Functions

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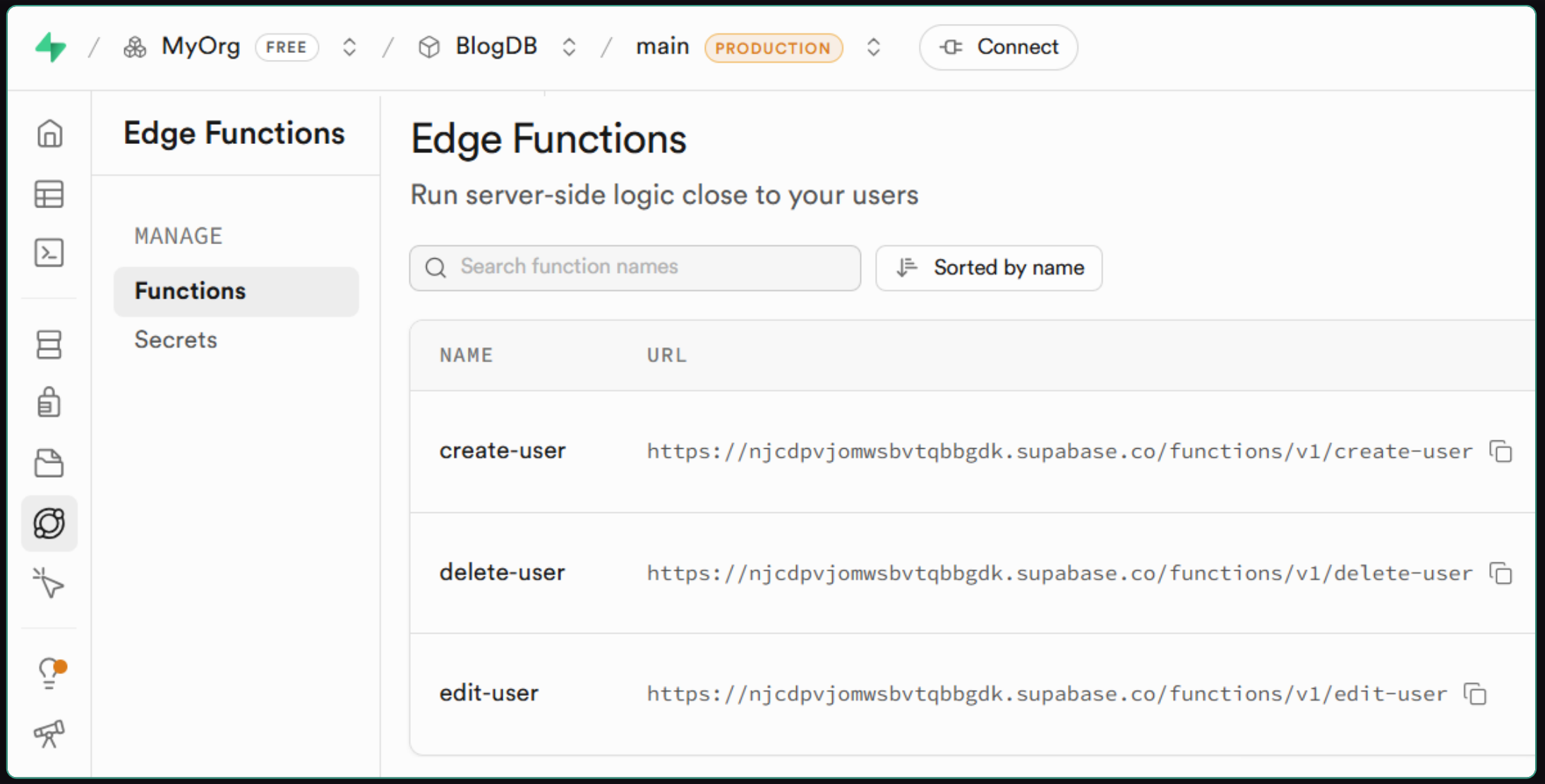

CORS Problems

- Your app may encounter the following problem:

- The edge functions **do not handle CORS** correctly → ask the AI agent to fix and re-deploy them

Admin Manage Users in Action

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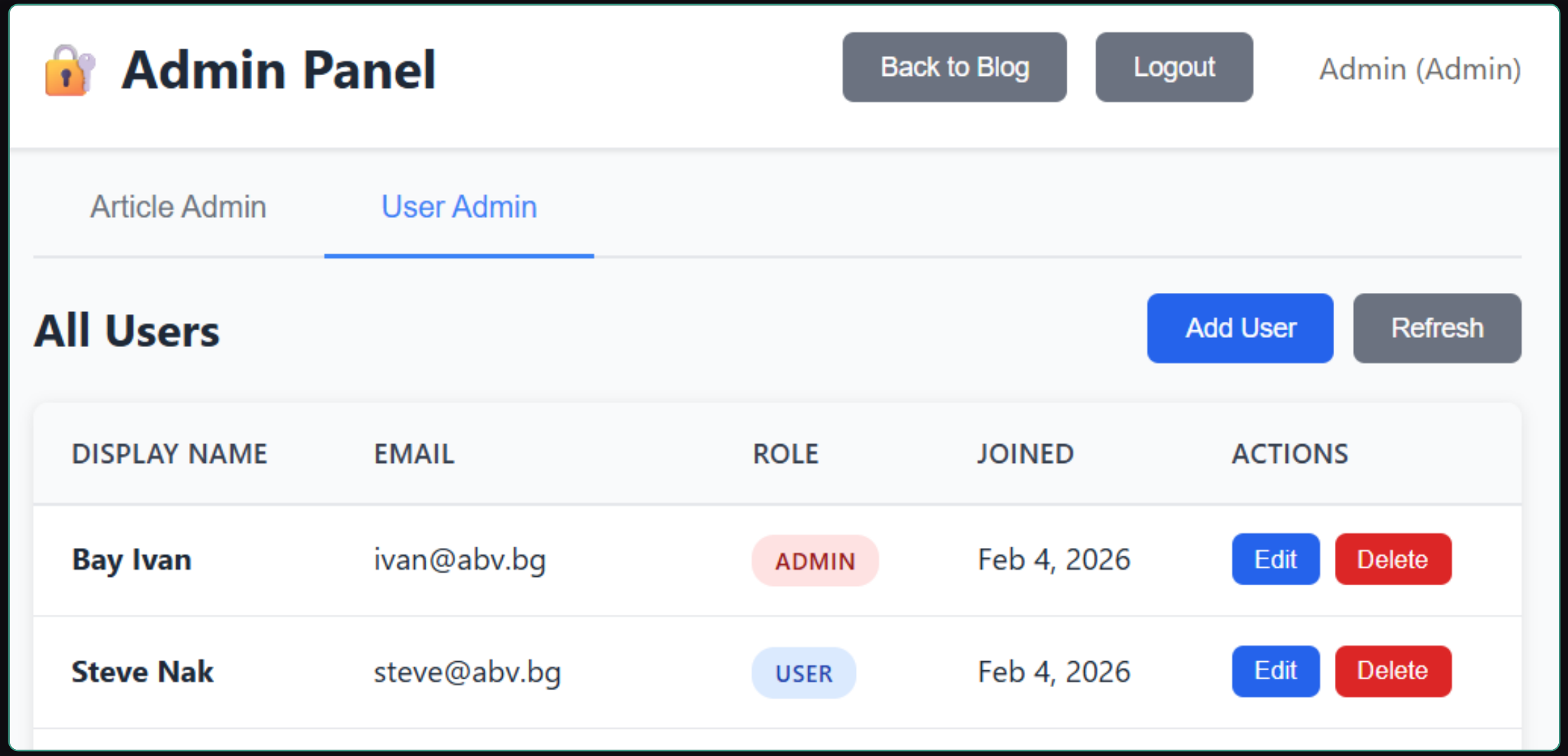
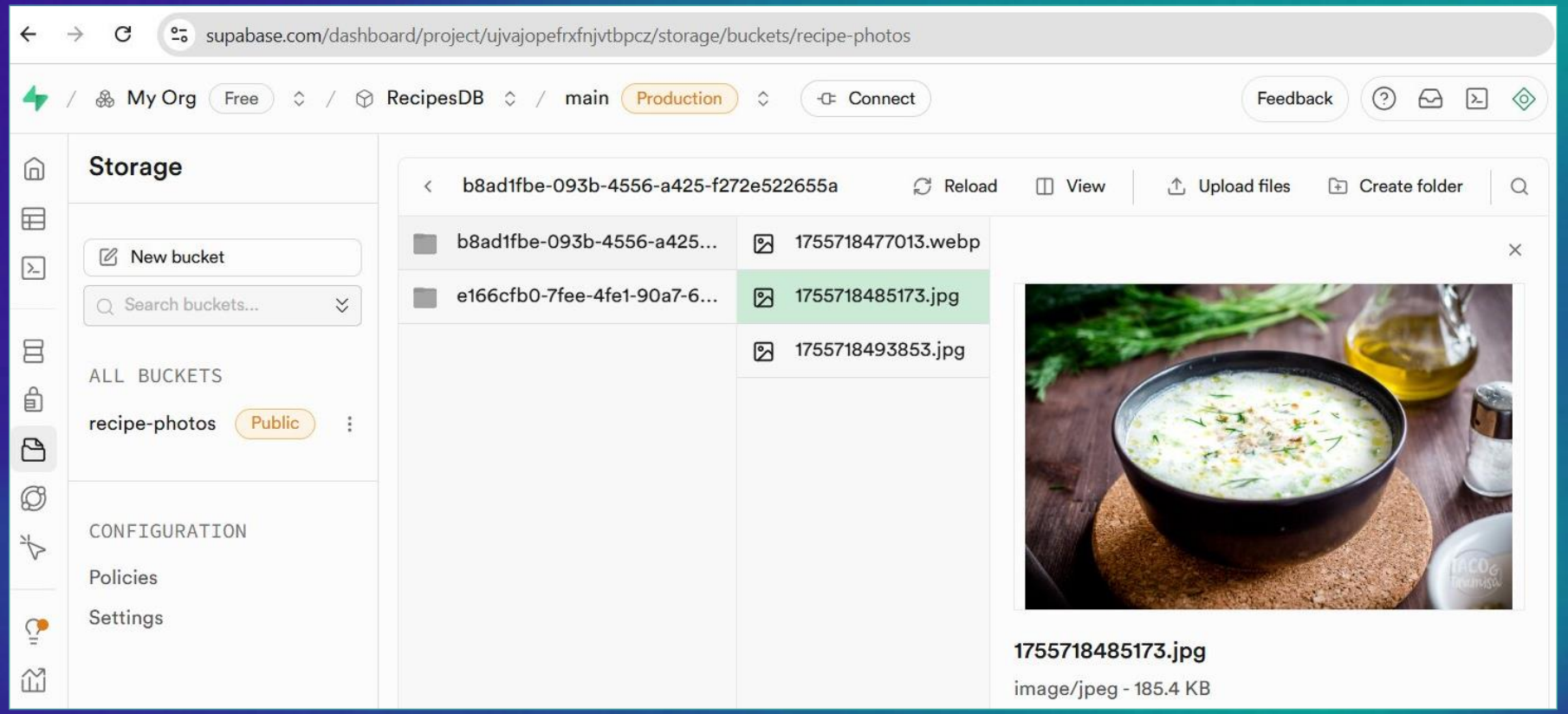


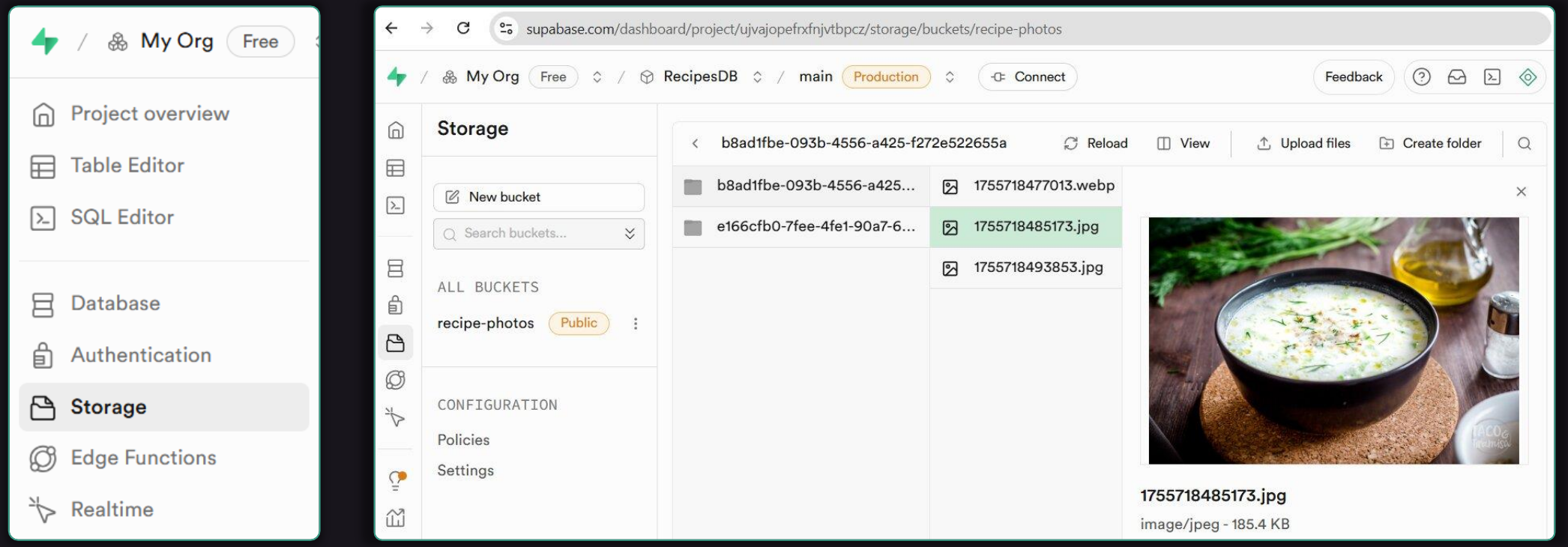
Supabase Storage

Upload and Download Images and Files



Photos and File Uploads

- Apps typically store **photos**, **images**, **documents**, **files** in the **back-end** or in a **cloud storage**
  - In Supabase images are stored in **Supabase Storage**



Supabase Storage

SoftUni AI

- **Supabase Storage** implements server-side **file uploads**, storage and **downloads**
  - Store images, photos, documents, videos, etc.
  - Storage structure:
    - **Buckets** (root folders, which hold files)
    - **Files** (with file paths, imitating **folders**)
  - Functionality: file **upload**, **download**, **share**
  - Access control: tables with **RLS** in the `**storage**` schema

Implementing Blog Images

SoftUni AI

- Implement **blog images** with **Supabase Storage**
  - We already have the **blog system**, which allows users to view and publish blog article
  - Now we shall **implement cover image** for the articles

Implement **cover images** for the blog articles
- Implement **image upload** in Add / Edit articles
- Keep image uploads in the **Supabase Storage**
- Implement proper **RLS policies**: everyone can view images, but only image owners can edit / delete them

Blog with Images in Action

SoftUni AI

Blog

Admin | Logout | Welcome, Svetlin Nakov

Published Articles

Tarator - the full recipe

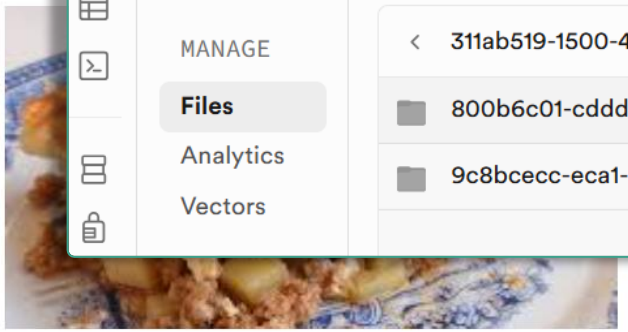
Admin

February 4, 2026

tarator | recipe | food

On days when the thermometers are showing nearly 40 degrees, everyone is looking for a way to escape the heat. Of course, the best solution to the pro...

Read More



Moussaka recipe

Steve Nak

February 4, 2026

food | moussaka | recipe | bulgarian

Ingredients Original recipe (1X) yields 12 servings ¾ pound ground beef (85% lean) ¾ pound ground pork ½ cup olive oil, divided 1 large carrot, f...

Read More

MyOrg FREE / BlogDB / main PRODUCTION | Connect | Feedback

Storage

MANAGE

Files

Analytics

Vectors

Files > Buckets > article-images PUBLIC

311ab519-1500-4023-b902-d22b19c19299 | Reload | View

800b6c01-cddd-48b9-847...

311ab519-1500-4023-b902-...

1770216403718_tarator4.jpeg

9c8bcecc-eca1-46a9-8c94...

```
async function publishArticle(e) {
    if (imageFile) {
      const timestamp = Date.now();
      const filename = `${articleData.id}/${currentUser.id}/

      // Upload file to storage
      const { error: uploadError } = await supabaseClient
        .storage
        .from('article-images')
        .upload(filename, imageFile);

      if (uploadError) throw uploadError;

      // Get public URL
      const { data: urlData } = supabaseClient
        .storage
        .from('article-images')
        .getPublicUrl(filename);
```

Lesson Summary

SoftUni AI

- **Supabase Auth** has built-in authentication system: users, login / logout, JWT tokens, RLS security, OAuth
- **Database migrations**: SQL scripts for DB schema changes, ordered by time, tracked in both DB and local files
- **Row-Level Security (RLS)**: defining policies for row-level access control (for SELECT, INSERT, UPDATE, DELETE)
- Implementing app **users** and **roles** (visitors, users, admins) in Supabase with **user_roles** table + **RLS joins**
- **Supabase Storage**: implementing file uploads / downloads

Questions?

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