VolunteerConnect Documentation

# Project Overview

VolunteerConnect is a full-stack web application designed to connect volunteers with events hosted by organizations. The system supports user registration, event creation, volunteer signups, and a review/rating system.

# System Architecture Diagram

The architecture consists of:  
- Frontend: HTML, CSS, JavaScript  
- Backend: ASP.NET Core Web API  
- Database: SQL Server  
  
The frontend communicates with the backend API using HTTP (Fetch API). The backend interacts with SQL Server using Entity Framework Core.

# Database Schema & Relationships

Main Entities:  
- User  
- Event  
- Signup  
- Rating  
- Organization  
- Volunteer  
  
Relationships:  
- One User can organize many Events  
- One Event can have many Signups  
- One Volunteer can sign up for many Events  
- One Event can have many Ratings

# API Endpoints Documentation

\*\*AuthController\*\*  
- POST /api/auth/register: Register new users  
- POST /api/auth/login: Login and get JWT  
  
\*\*UserController\*\*  
- GET /api/user: Get all users  
- GET /api/user/{id}: Get user by ID  
  
\*\*EventController\*\*  
- GET /api/event: Get all events  
- GET /api/event/{id}: Get event by ID  
- POST /api/event: Create new event  
- PUT /api/event/{id}: Update event  
- DELETE /api/event/{id}: Delete event  
  
\*\*RatingController\*\*  
- POST /api/rating: Submit a rating  
- GET /api/rating/event/{eventId}: Get ratings for an event