

Event Manager Report

The objective of the report is to document the steps involved in configuring database , creating CRUD APIs and creating user interface integrated with APIs using angular.

Steps:

1. Set up the Database and Entity Framework:
 - Created a database table named Events in order to store events using SQL server.
 - The table consists of five fields id , owner, date, title , and details
 - Setup entity framework to connect to database.
2. Implement the Event entity and DbContext :
 - Created Event Entity in Models folder and configured it as DbSet in DbContext class.
 - Run migrations to create table and update the database
 - Command used:
Add-migration migrationName
Update-database
3. Created Controllers
 - Created Controller name EventManagerController to handle CRUD operations for events.
 - Used entity framework to let APIs interact with database.
4. In Program.cs file, Configured the routing for API controller.
5. Considering the user interface, Created ApiService file which handle HTTP client services

6. Created two pages that inject HTTP client services from ApiService file
 - Create Event page which creates event in database depending on entered data in the form
 - Validation whether the owner already have an event
 - Show events page retrieve events from database to a table
 - Update button when clicked check for existence of event and the new owner if already exists before making any actions
 - Delete button is added also for each event in the events table

Issues faced:

1. Requests were blocked due to CORS policy violation in which the header is required in the server's response to indicate which which origins are allowed to access resources.
Solved :
 - Configuring CORS headers in Program.cs file
 - Configuring CORS headers in proxy.conf.json file
2. Status error 400 for POST request as the headers were not configured correctly so the server reject this request.
3. Two way Data binding requires FormModule to be included in app module.

References

- [HTTP post request example in Angular using HttpClient \(angularjswiki.com\)](#)
- [HTTP get request example in Angular using HttpClient \(angularjswiki.com\)](#)
- [angular5 - How to add CORS request in header in Angular 5 - Stack Overflow](#)

User Manual

In order to execute angular project eventsFE folder contains node_modules and eventsUser folder which contains source code.