



# VENUE APP

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VENUE MANAGEMENT  
AND  
TICKETING APP



# Description

**VenueApp** is an event ticketing Web application that allows staff members of any organization to manage and track reservations for the events they offer. It also allows consumers to browse the webpage for available events and make a reservation online.

This application could become a customizable platform for any business owner who needs to manage users, events, memberships, reservations, tickets, promotions etc.



# Features

- User **Signup**, **Login** and **Logout** (Through Sessions)
- Embedded **Administrator** and **User** roles in the app (Allowing separate dashboards and features)
- Intuitive **Management of database** tables (create, edit, delete)
- Populate Events table via **3<sup>rd</sup> party connection** (Ticketmaster API)
- **Query Interface** to browse or search events in the database.
- Events **Location Map** (Using BingMaps API)
- Unique user reservation **QR code** Ticket. (Using goqr.me API)



# Planning - User Stories

- *Administrators* can login, create and edit events (with details such as date/time, location, title, description, category, etc.).
- *Administrators* can populate or fill the events database with real life data via queries to an Events API.
- *Users* can browse the web app and search for available events
- *Users* can signup and/or login to the app which will enable them to Book an event and also manage their reservations and profile info.
- *Users* can view their bookings and request an QR code for the event.



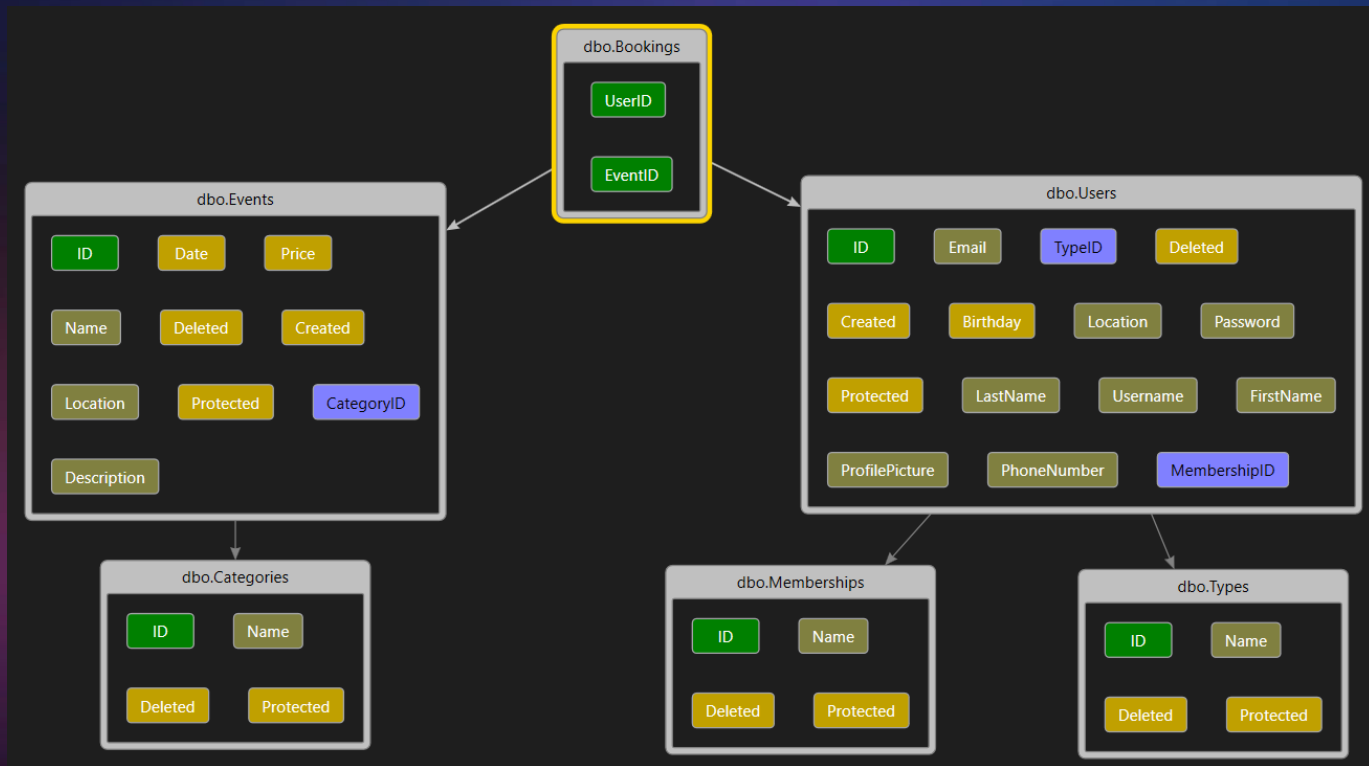
# Planning - Database

The primary tables for the database are: Users, Events and Bookings.  
The Secondary tables are: Type, Memberships and Categories.

- All tables except Bookings, have a primary key(ID).
- Users have all the information of a common user, like: Username (Unique index), Full Name, Password, etc. they have a one to many relationship to the Type table, and Membership table through their foreign keys.
- Events have all the information of an event, like: Name, Date, Time, Category, etc. They have a one to many relationship to Categories through the foreign key.
- Bookings is a Cross-Reference table to create a many to many relationship between the users and the events. The objective is to create a unique Reservation for each user.

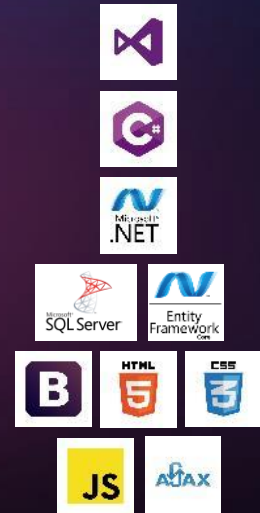


# Planning - Database (continued)

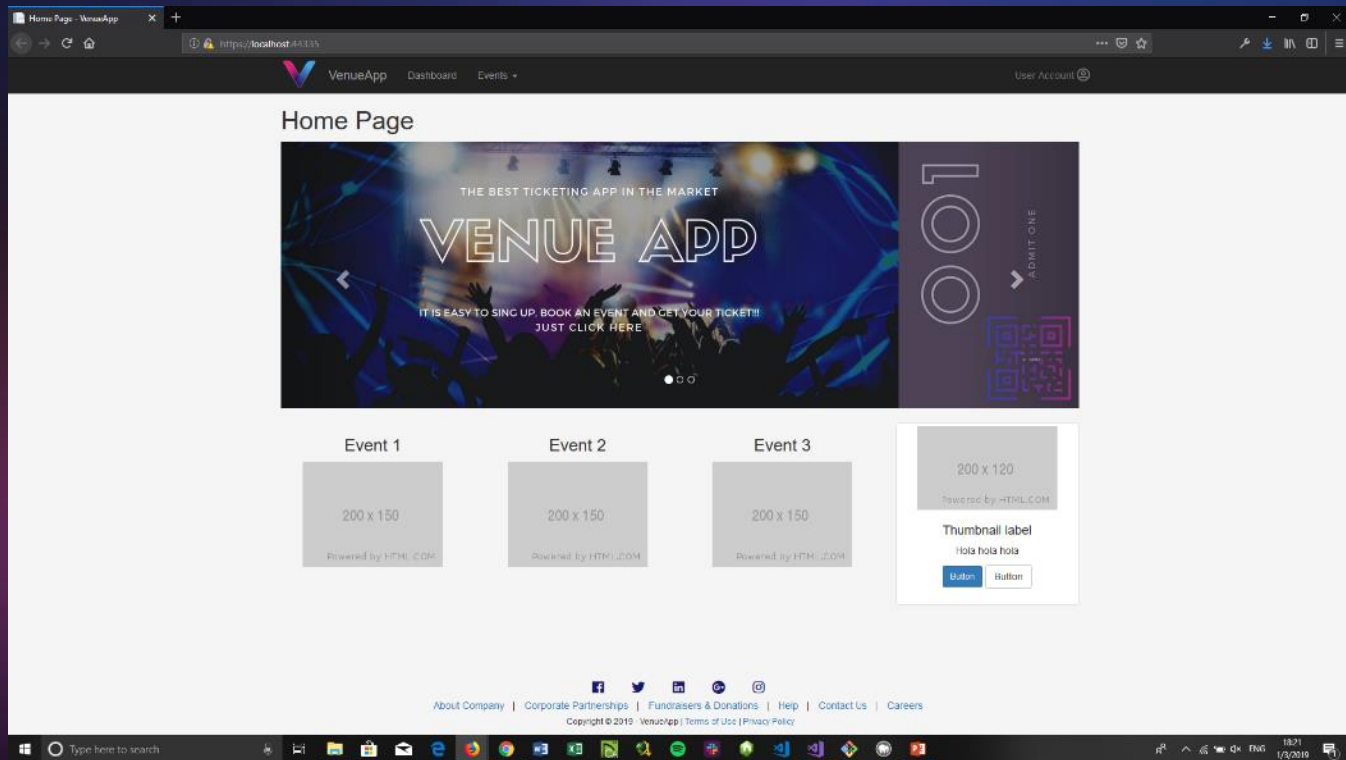


# Technology Stack

- IDE: Visual Studio 2017
- Language: C#
- Framework: ASP.NET Core MVC
- Template engine: Razor Pages
- Database engine: SQL Server Database (Managed by Microsoft Entity Framework)
- Front End and UI: Bootstrap, HTML and CSS
- API Interactions: JavaScript and Ajax



# Demo (Homepage)





# Demo (Login)

Login - VenueApp

https://localhost:44335/1/user/login

VenueApp Dashboard Events User Account

## Login

### Returning User

If you already have an account, please sign in.

Username

Password

Login

### Create New User Account

Don't have an Account yet? Sign up now - it's Free and Easy!

Create an Account

Registered account members receive:

- **Book Events Online**  
Save your information to make future bookings online quick & easy!
- **Manage your Bookings & History**  
View and track your events inscriptions, modify schedule and more.
- **Earn Rewards**  
Receive redeemable points for purchases, sharing with friends and more.  
[Learn More](#)

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18/3/2019



# Demo (User Signup)

User Signup - VenueApp

https://localhost:44335/User/SignIn

VenueApp Dashboard Events

User Account

## User Signup

New User Data

Username \*

First Name \*

Last Name \*

Email

Password \*

Verify Password \*

Sing Up

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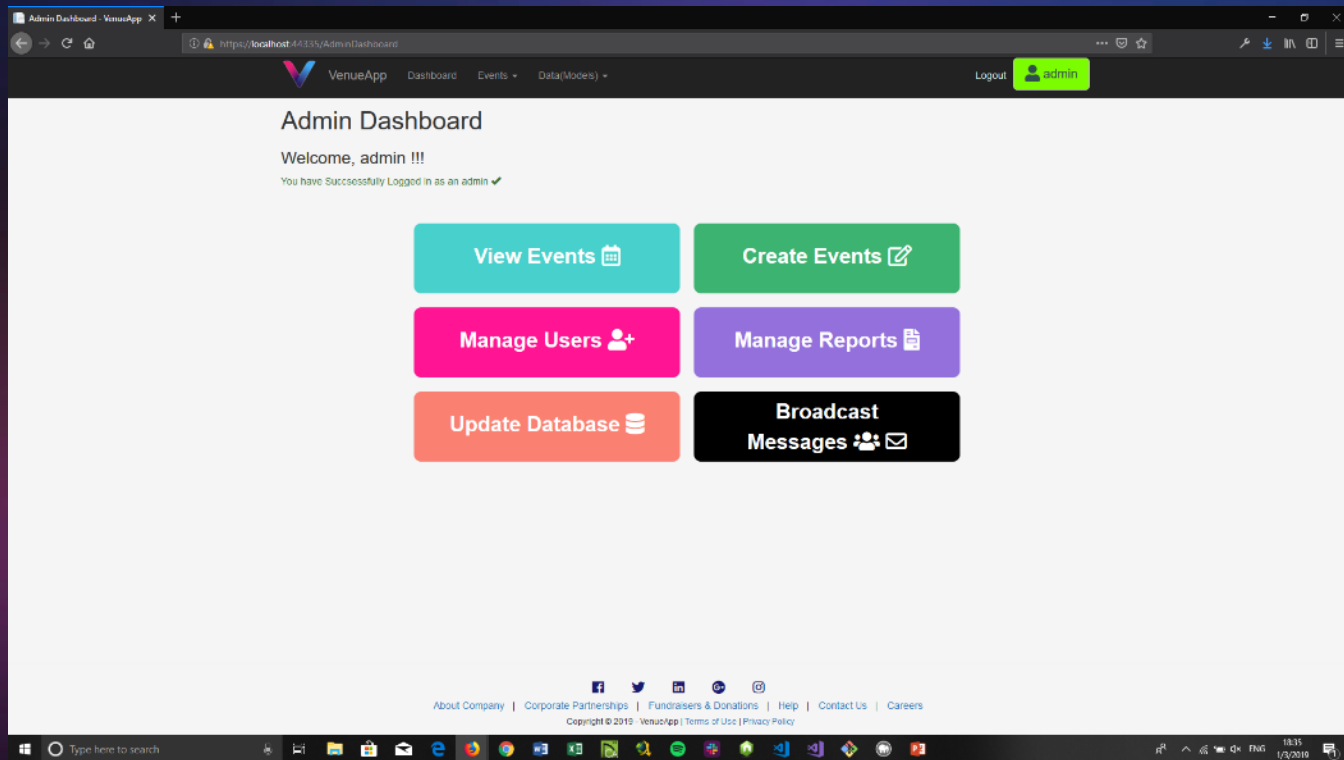
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18:21 1/3/2018



# Demo (Admin Dashboard)



# Demo (Manage Users by Admin - Index)

Users Index - VenueApp

https://localhost:44335/user

VenueApp Dashboard Events

Logout admin

## Users Index

User Daniel was successfully created ✓

### List of Users in Database

#	Name	Options
1	admin (Protected)	Edit   Book Event
2	user (Protected)	Edit   Book Event
3	Guliyed	Edit   Book Event
4	Daniel	Edit   Book Event

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# Demo (Manage Users by Admin – Add)

Add User - VenueApp

https://localhost:44335/User/Add

VenueApp Dashboard Events

Logout admin

## Add User

New User Data

**Username**

**Email**

**First Name**

**Last Name**

**Password**  
  
You must enter an alphanumeric password

**Verify Password**  
  
This field must match your password

**Membership**

**Role**

Add User To Database

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18:27 1/3/2019



# Demo (Manage Users by Admin – edit)

Browser window: Edit User Guiyed(Id=3) | VenueApp | Dashboard | Events | Logout | admin

## Edit User Guiyed(Id=3)

**Edit User Data**

**Username**

**Email**

**First Name**

**Last Name**

**Password**

**Birthday**

**PhoneNumber**

**Location**

**Membership**

**Role**

[Edit User](#)

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# Demo (Manage Users by Admin - delete)

Remove Users - VenueApp

https://localhost:44335/Remove

VenueApp Dashboard Events Logout admin

## Remove Users

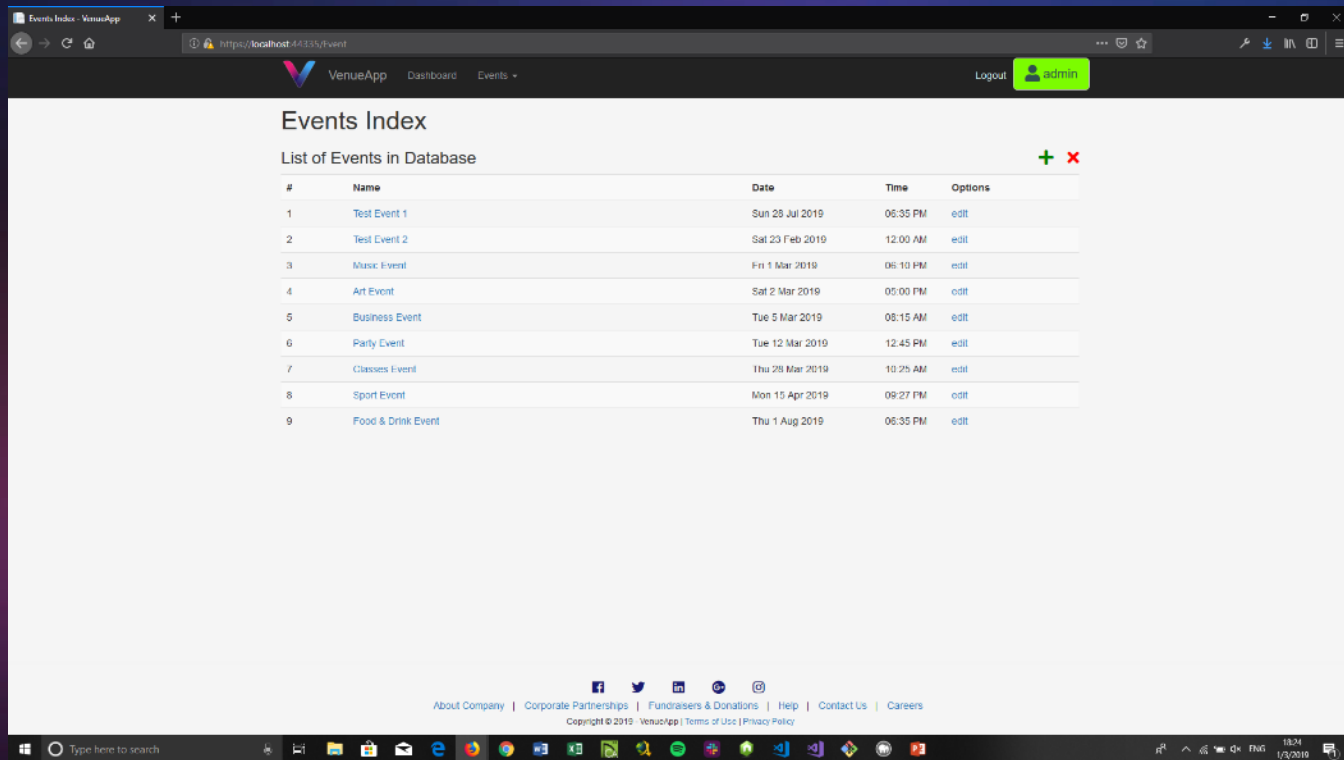
#	Users	Selection
1	Guyed	<input checked="" type="checkbox"/>
2	Daniel	<input type="checkbox"/>

Remove Selected Users

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# Demo (Manage Events by Admin)



The screenshot shows a web browser window displaying the 'Events Index' page of the 'VenueApp'. The browser's address bar shows 'https://localhost:44335/event'. The page has a dark header with the 'VenueApp' logo, navigation links for 'Dashboard' and 'Events', a 'Logout' button, and a user profile for 'admin'. The main content area is titled 'Events Index' and 'List of Events in Database', with a green plus icon and a red minus icon to the right. Below this is a table with 9 rows of event data. The table columns are '#', 'Name', 'Date', 'Time', and 'Options'. Each row contains an event name, its date, time, and an 'edit' link. At the bottom of the page, there are social media icons for Facebook, Twitter, LinkedIn, and Instagram, followed by a footer with links for 'About Company', 'Corporate Partnerships', 'Fundraisers & Donations', 'Help', 'Contact Us', and 'Careers'. The footer also includes copyright information: 'Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy'. The Windows taskbar is visible at the bottom of the screen.

#	Name	Date	Time	Options
1	Test Event 1	Sun 28 Jul 2019	06:35 PM	<a href="#">edit</a>
2	Test Event 2	Sat 23 Feb 2019	12:00 AM	<a href="#">edit</a>
3	Music Event	Fri 1 Mar 2019	06:10 PM	<a href="#">edit</a>
4	Art Event	Sat 2 Mar 2019	05:00 PM	<a href="#">edit</a>
5	Business Event	Tue 5 Mar 2019	08:15 AM	<a href="#">edit</a>
6	Party Event	Tue 12 Mar 2019	12:45 PM	<a href="#">edit</a>
7	Classes Event	Thu 28 Mar 2019	10:25 AM	<a href="#">edit</a>
8	Sport Event	Mon 15 Apr 2019	09:27 PM	<a href="#">edit</a>
9	Food & Drink Event	Thu 1 Aug 2019	06:35 PM	<a href="#">edit</a>





# Demo (Manage Categories by Admin)

List of Categories - VenueApp X

https://localhost:44335/Category

VenueApp Dashboard Events Data(Modes) Logout admin

## List of Categories

ID = 1: <b>none</b> (Protected)
ID = 2: <b>Music</b> (Protected)
ID = 3: <b>Arts</b> (Protected)
ID = 4: <b>Business</b> (Protected)
ID = 5: <b>Parties</b> (Protected)
ID = 6: <b>Classes</b> (Protected)
ID = 7: <b>Sports</b> (Protected)
ID = 8: <b>Food &amp; Drinks</b> (Protected)

[Add](#) | [Remove](#)

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# Demo (Manage Memberships by Amin)

The screenshot displays a web application interface for 'VenueApp'. The browser address bar shows 'https://localhost:44335/Membership'. The navigation bar includes links for 'Dashboard', 'Events', and 'Data(Modes)'. A 'Logout' button and a user profile for 'admin' are visible in the top right. The main content area is titled 'List of Memberships' and contains a table with the following data:

ID = 1	none	(Protected)
ID = 2	Bronze	(Protected)
ID = 3	Silver	(Protected)
ID = 4	Gold	(Protected)

Below the table, there are links for 'Add' and 'Remove'. The footer of the application includes social media icons and links for 'About Company', 'Corporate Partnerships', 'Fundraisers & Donations', 'Help', 'Contact Us', and 'Careers'. The Windows taskbar at the bottom shows the time as 18:36 on 1/3/2019.



# Demo (Manage Bookings by Admin)

The screenshot shows a web browser window displaying the 'Bookings Index' page of the VenueApp. The browser's address bar shows the URL 'https://localhost:44335/Booking'. The page has a navigation bar with 'VenueApp', 'Dashboard', 'Events', and 'Data(Modes)'. A 'Logout' button and a user profile icon labeled 'admin' are in the top right. The main content area is titled 'Bookings Index' and 'List of Bookings in Database'. It contains a table with 11 rows of booking data. Each row includes a serial number, a user name with their ID, an event name, an event ID, and a delete button (a red 'X'). Below the table, a message states: 'To add another event, please use the User Index "Book" option'. The footer includes social media icons, a list of links (About Company, Corporate Partnerships, Fundraisers & Donations, Help, Contact Us, Careers), and copyright information for 2019.

#	User	Event	EventID	Delete
1	user (id: 2)	Art Event	4	X
2	user (id: 2)	Classes Event	7	X
3	user (id: 2)	Sport Event	8	X
4	user (id: 2)	Food & Drink Event	9	X
5	Guliyed (id: 3)	Music Event	3	X
6	Guliyed (id: 3)	Party Event	6	X
7	Daniel (id: 1003)	Test Event 1	1	X
8	Daniel (id: 1003)	Test Event 2	2	X
9	Daniel (id: 1003)	Music Event	3	X
10	Daniel (id: 1003)	Business Event	5	X
11	Daniel (id: 1003)	Sport Event	8	X

To add another event, please use the User Index "Book" option

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# Demo (Interacting Event API - show)

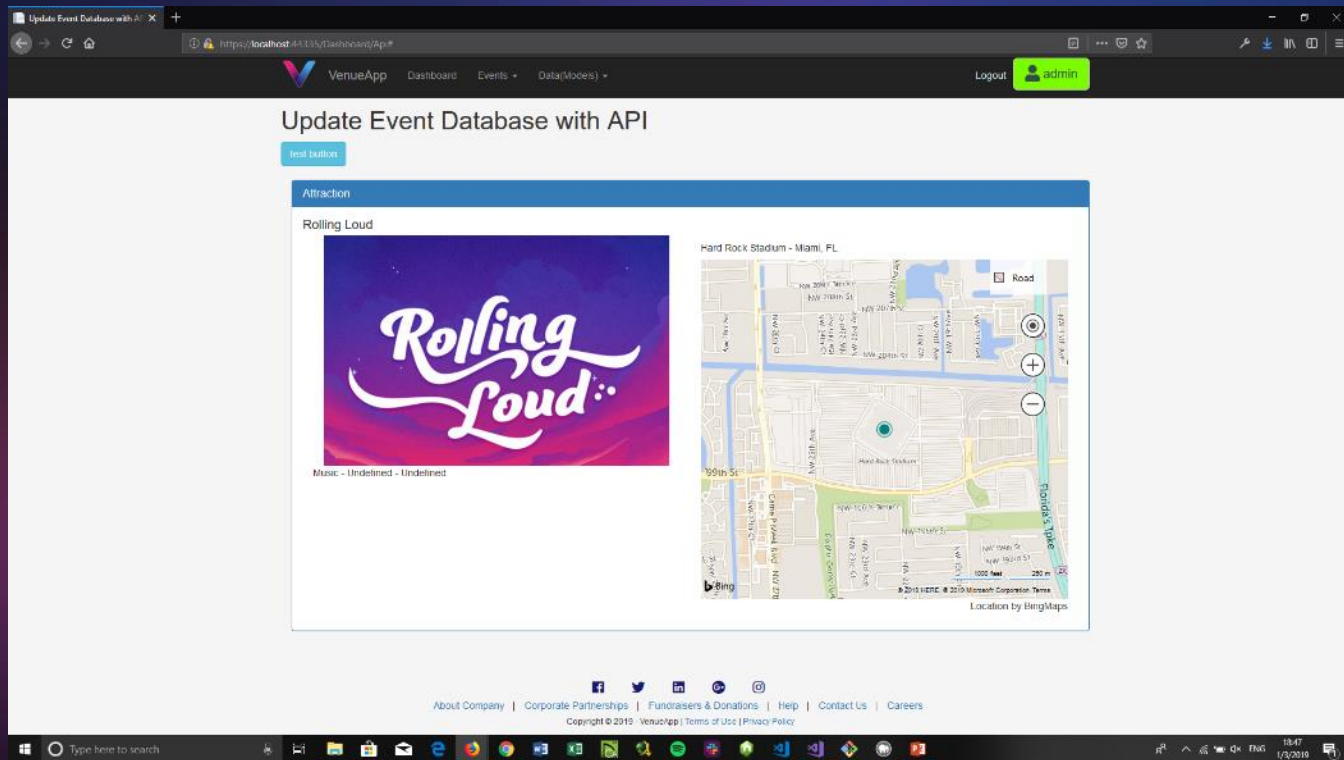
The screenshot shows a web browser window with the address bar displaying `https://localhost:44335/Dashboard/App#`. The page title is "Update Event Database with API". The navigation bar includes "VenueApp", "Dashboard", "Events", and "Data(Modes)". A "Logout" button and a user profile icon labeled "admin" are visible. The main content area features a "test button" and a modal window titled "Events". The modal contains a list of events:

Events
<b>Chayanne</b> 2019-05-11 American Airlines Arena in Miami
<b>Melendi At James L Knight Center</b> 2019-05-10 James L Knight Center in Miami
<b>Joan Manuel Serrat</b> 2019-03-02 The Fillmore Miami Beach at Jackie Gleason Theater in Miami Beach
<b>The Rolling Stones: 2019 No Filter Tour</b> 2019-04-20 Hard Rock Stadium in Miami
<b>Rolling Loud</b> 2019-05-10 Hard Rock Stadium in Miami

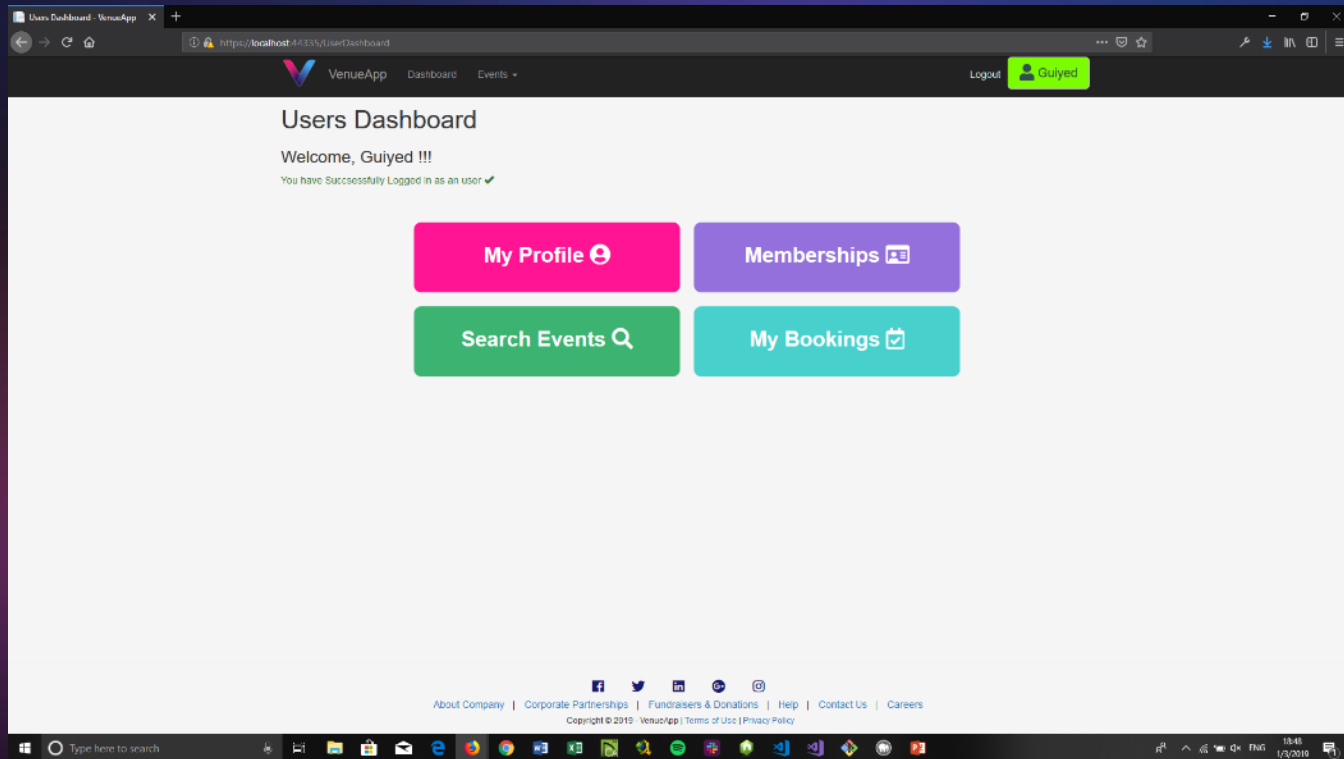
At the bottom of the modal, there are two buttons: a minus sign and a plus sign. The footer of the page includes social media icons and links for "About Company", "Corporate Partnerships", "Fundraisers & Donations", "Help", "Contact Us", and "Careers". The copyright notice is "Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy". The Windows taskbar at the bottom shows the search bar and various application icons.



# Demo (Interacting Event API - details)



# Demo (User Dashboard)



# Demo (User Profile - Home)

Browser window showing the User Profile page of VenueApp.

Page Title: User Profile

Navigation: Messages, Bookings, Settings

User Information:

- Username: "Guiyed"
- ID: "3"

Profile Section:

Upload a different photo...

Select one:  or  No file selected

Profile Details:

Profile	
Joined	1/1/2001
Name	Guilemo Zerpa
Birthday	--/--
Email	g@k.com
Website	g@hub.com
Membership	Bronze

Messages Section:

Inbox	
Here is your a link to the latest summary report from the...	2/13/2019
Hi Joe, There has been a request on your account since that was...	2/11/2019
Nullam sapien massaorlor. A lobortis vitae, condimentum justo...	2/11/2019
Thiam sapien massaorlor. A lobortis vitae, condimentum justo...	2/11/2019
Wesam sapien massaorlor. A lobortis vitae, condimentum justo...	2/11/2019
For theorepim massaorlor. A lobortis vitae, condimentum justo...	2/11/2019
Also we, havesapien massaorlor. A lobortis vitae, condimentum justo...	2/11/2019
Swedish chef is assaorlor. A lobortis vitae, condimentum justo...	2/11/2019

Footer:

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# Demo (User Profile – View Bookings)


Browser window: User Profile - VenueApp

URL: https://localhost:44333/User/Profile/userid=3

Navigation: VenueApp Dashboard Events

Logout **Guiyed**

## User Profile



Upload a different photo...

Select one:  or  No file selected

**Profile**


**Joined** 1/1/2001

**Name** Guillermo Zerpa

**Birthday** --/--/--

**Email** g@k.com

**Website** [GitHub.com](#)

**Membership** 


Bronze

**Username:** "Guiyed" **ID:** "3"

[Messages](#) [Bookings](#) [Settings](#)

#	Event Name	Date/Time	Category	QR
1	Music Event	01/03/19 @ 05:10PM	Music	<a href="#">show</a>
2	Party Event	12/03/19 @ 12:45PM	Parties	<a href="#">show</a>
3	Sport Event	15/04/19 @ 09:27PM	Sports	<a href="#">show</a>
4	Food & Drink Event	01/08/19 @ 06:35PM	Food & Drinks	<a href="#">show</a>

Click Here to manage your Reservations



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# Demo (User Profile - Settings)


User Profile - VenueApp

https://localhost:44335/1/user/profile/userid=3

VenueApp Dashboard Events

Logout Guiyed

## User Profile



Upload a different photo...

Select one: Picture or

Browse... No file selected

**Profile**


**Joined** 1/1/2001

**Name** Guillermo Zerpa

**Birthday** -- / -- / --

**Email** g@k.com

**Website** [G@hub.com](#)

**Membership** 

Bronze

**Username:** "Guiyed"

**ID:** "3"

[Messages](#) [Bookings](#) [Settings](#)

**First name**

Guillermo

**Phone Number**

Phone Number

**Email**

g@k.com

**Password**

\*\*\*\*\*

**Last name**

Zerpa

**Birthday**

mm / dd / yyyy

**Location**

somewhere

**Verify Password**

verify password

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Type here to search

18:51 1/3/2019



# Demo (Manage Bookings by User)

The screenshot shows a web browser window with the URL `https://localhost:44335/Booking/Scheduled/userId=3`. The page title is "Guied's" Scheduled events. The header includes the VenueApp logo, navigation links for Dashboard and Events, a Logout button, and a user profile for "Guied".

Below the header, there is a table of scheduled events. The table has columns for #, Event Name, Date, Time, and Category. There are four events listed:

#	Event Name	Date	Time	Category
1	Music Event	Fri 1 Mar 2019	06:10 PM	Music
2	Party Event	Tue 12 Mar 2019	12:45 PM	Parties
3	Sport Event	Mon 15 Apr 2019	09:27 PM	Sports
4	Food & Drink Event	Thu 1 Aug 2019	06:35 PM	Food & Drinks

Below the table, there is a link: [Add another Event to your bookings](#).

The footer contains social media icons for Facebook, Twitter, LinkedIn, and Instagram, along with links for About Company, Corporate Partnerships, Fundraisers & Donations, Help, Contact Us, and Careers. Copyright information is also present: Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy.



# Demo (Event Brochure by User)


Event Info - VenueApp x Response caching in ASP.NET x

https://localhost:44335/Event/Brochure?eventId=3109

VenueApp Dashboard Events Data(Models)

Logout admin

## Event Info (ID = 3109)



Category: Music

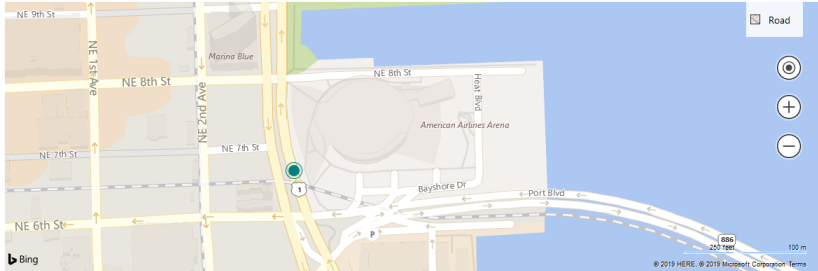
### SHAWN MENDES: THE TOUR

\$ 25.5

Description:

Date: 26/7/2019 at 19:30:00

Location: AmericanAirlines Arena in Miami



Back to search

Go to my bookings

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Location by BingMaps

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Type here to search

16:45 7/3/2019 ENG



# Demo (Solution Explorer)

The screenshot displays the Visual Studio IDE with the following components:

- Code Editor:** Shows the `UserController.cs` file with the following code:

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using System.Web;
6 using Microsoft.AspNetCore.Http;
7 using Microsoft.AspNetCore.Mvc;
8 using Microsoft.EntityFrameworkCore;
9 using VenueApp.Data;
10 using VenueApp.Models;
11 using VenueApp.ViewModels;
12 using VenueApp.Helpers;
13
14 namespace VenueApp.Controllers
15 {
16     public class UserController : Controller
17     {
18         private VenueAppDbContext context;
19
20         public UserController(VenueAppDbContext dbContext)
21         {
22             context = dbContext;
23         }
24     }
25 }
```
- Solution Explorer:** Located on the right, it shows the project structure for 'Solution 'VenueApp' (1 project)'. The tree includes:
  - Connected Services
  - Dependencies
  - Properties
  - wwwroot
    - css
    - images
    - js
    - lib
    - videos
    - favicon.ico
  - Controllers
    - BookingController.cs
    - CategoryController.cs
    - DashboardController.cs
    - EventController.cs
    - HomeController.cs
    - MembershipController.cs
    - RoleController.cs
    - TestController.cs
    - UserController.cs (selected)
  - Data
    - VenueAppDbContext.cs
  - Helpers
  - Migrations
  - Models
    - Booking.cs
    - Event.cs
    - EventCategory.cs
    - Membership.cs
    - User.cs
    - UserRole.cs
  - ViewModels
    - Booking
    - Category
    - Dashboard
    - Event
    - Home
    - Membership
    - Role
    - Shared
    - Test
    - User
  - ViewsImports.cshtml
- Error List:** Located at the bottom, it shows '0 Errors', '0 of 17 Warnings', and '0 Messages'. The table has columns for 'Code', 'Description', 'Project', and 'File'.



# What I Learned

- I became more proficient reading documentation and searching information on Google.
- I learn the hard way how to implement sessions and roles.
- I learned how to create separate Dashboards for users and admins.
- I learned how to integrate “tabs” in a single page. I used this for my profile view.
- I learned some JavaScript via reverse engineering of running examples.



# What I Learned (continued)

- I learned what is an API and how to interact or connect with an API via AJAX.
- I finally understood CSS and got proficient with Bootstrap 3.3.7
- I learn more about GIT Branches and their benefits to use them.
- I have also learned that there is always a free or almost free API for anything that you need. For example I used API's for pictures placeholders, Events Data (with a lot of useful and updated information), Map Location and QR codes.



# What's Next

- Deploy App on the Internet (Microsoft Azure, AmazonWebService)
- Refactor the whole app (DontRepeatYourself).
- Learn how to use and implement the built in Windows Security, Authentication, and Authorization Libraries.
- Add Cookies and promotions.
- Implement and integrate an automatic “*Broadcast message*” feature (using email and/or SMS) for target marketing.
- Learn AngularJS and incorporate it to the project.

