

# Description

*VenueApp* is an event ticketing Web application that allows staff members at any organization to manage and track the reservations for the events that they offer. On the other hand, consumers can browse the webpage for available events and make a reservation online.

This application could become a customizable platform for any business owner with a Venue or similar business that needs to manage users, events, memberships, reservations, tickets, promotions etc.



# Features

- User *Signup*, User *Login* and User *Logout* (Through Sessions)
- Embedded *Administrator* and *User* roles in the app (Allowing feature differentiation and separate dashboards)
- 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 xxx 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.

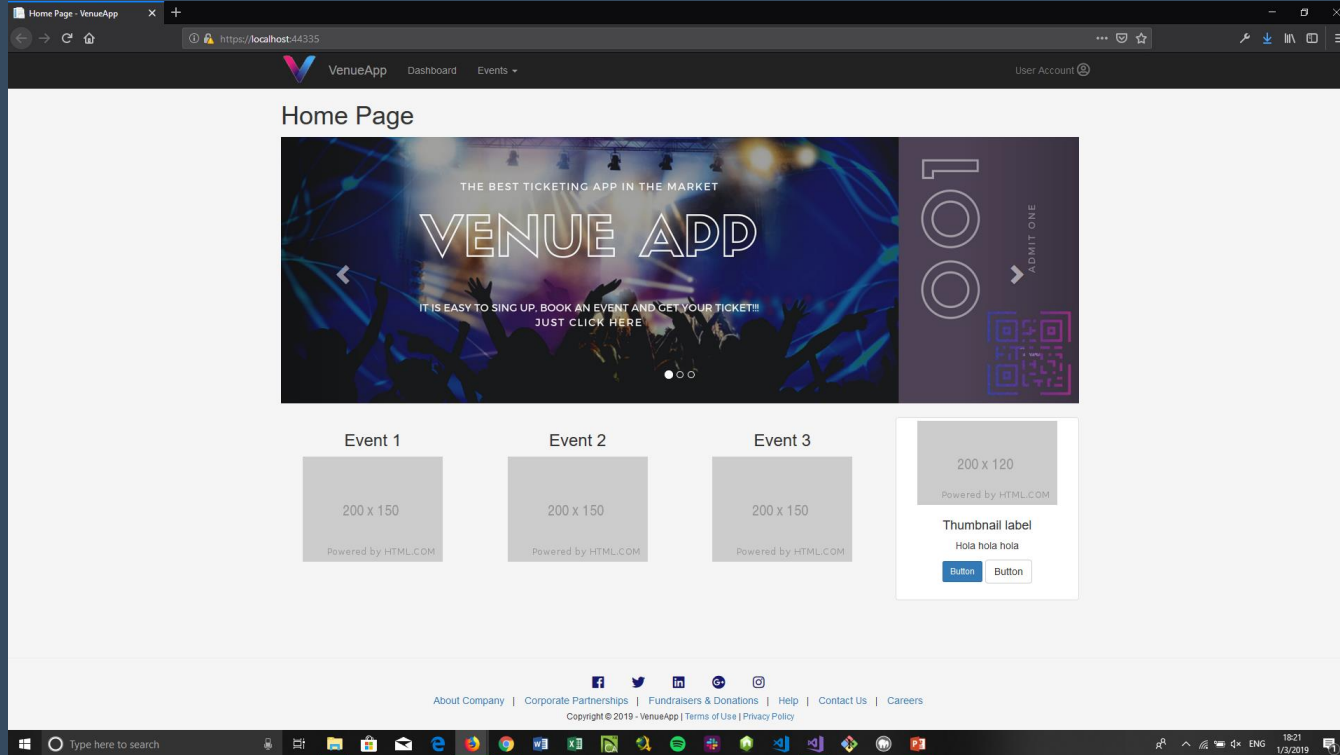


# Technology Stack

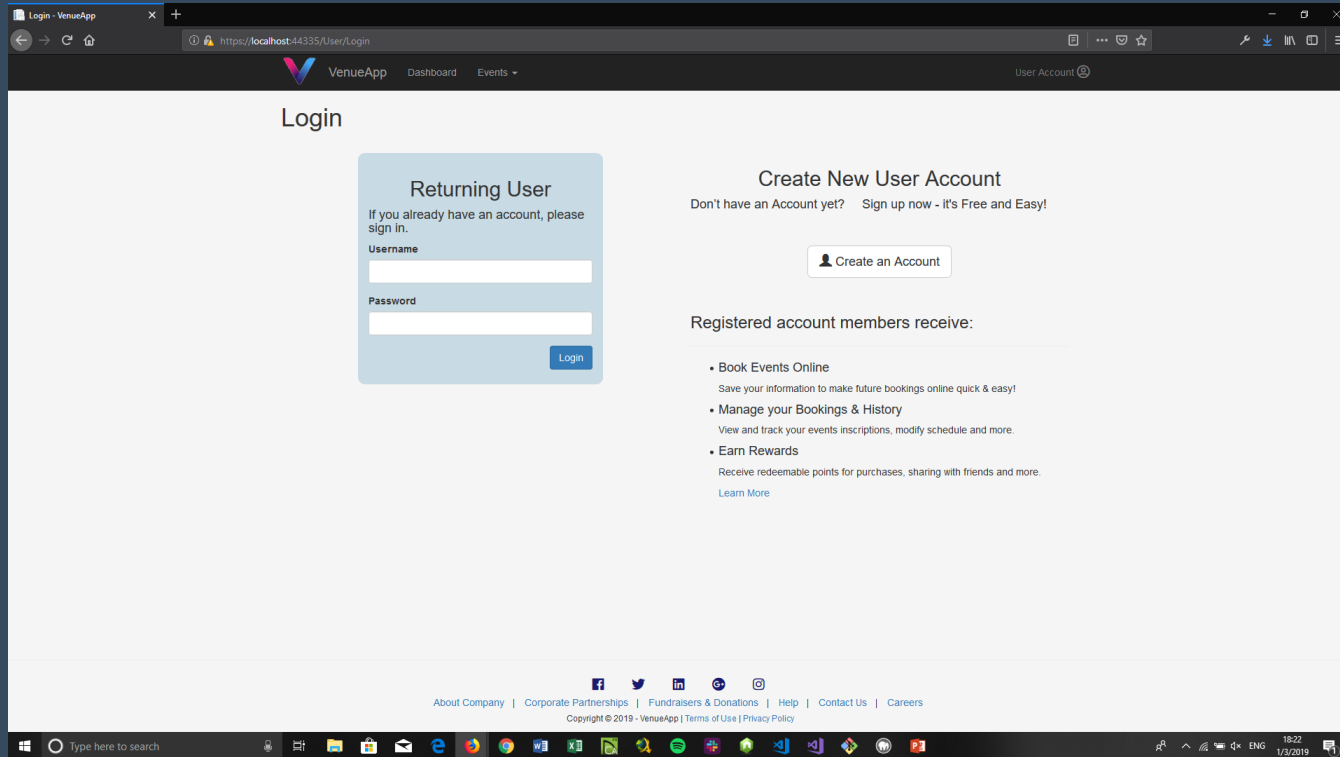
- Language: C#
- IDE: Visual Studio 2017
- Framework: ASP.NET Core MVC
- Template engine: Razor Pages
- Database engine: SQL Server Database (Managed by Microsoft Entity Framework)
- Front End and UI: Bootstrap, HTML and CSS
- API Interactions: JavaScript and Ajax



# Demo (Homepage)



# Demo (Login)



The screenshot shows a web browser window with the title "Login - VenueApp". The address bar shows the URL "https://localhost:44335/User/Login". The page has a dark header with the VenueApp logo, navigation links for "Dashboard" and "Events", and a "User Account" link. The main content area is titled "Login" and is divided into two sections. The left section, titled "Returning User", contains a form with fields for "Username" and "Password", and a "Login" button. The right section, titled "Create New User Account", contains a "Create an Account" button. Below this, a section titled "Registered account members receive:" lists three benefits: "Book Events Online", "Manage your Bookings & History", and "Earn Rewards". The footer contains social media links, a list of links (About Company, Corporate Partnerships, Fundraisers & Donations, Help, Contact Us, Careers), and copyright information.

Login - VenueApp

https://localhost:44335/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](#)

About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers

Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy



# Demo (User Signup)

User Signup - VenueApp

https://localhost:44335/User/SignUp

VenueApp Dashboard Events

User Account

## User Signup

New User Data

Username \*

First Name \*

Last Name \*

Email

Password \*

Verify Password \*

Sign Up

About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers

Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy

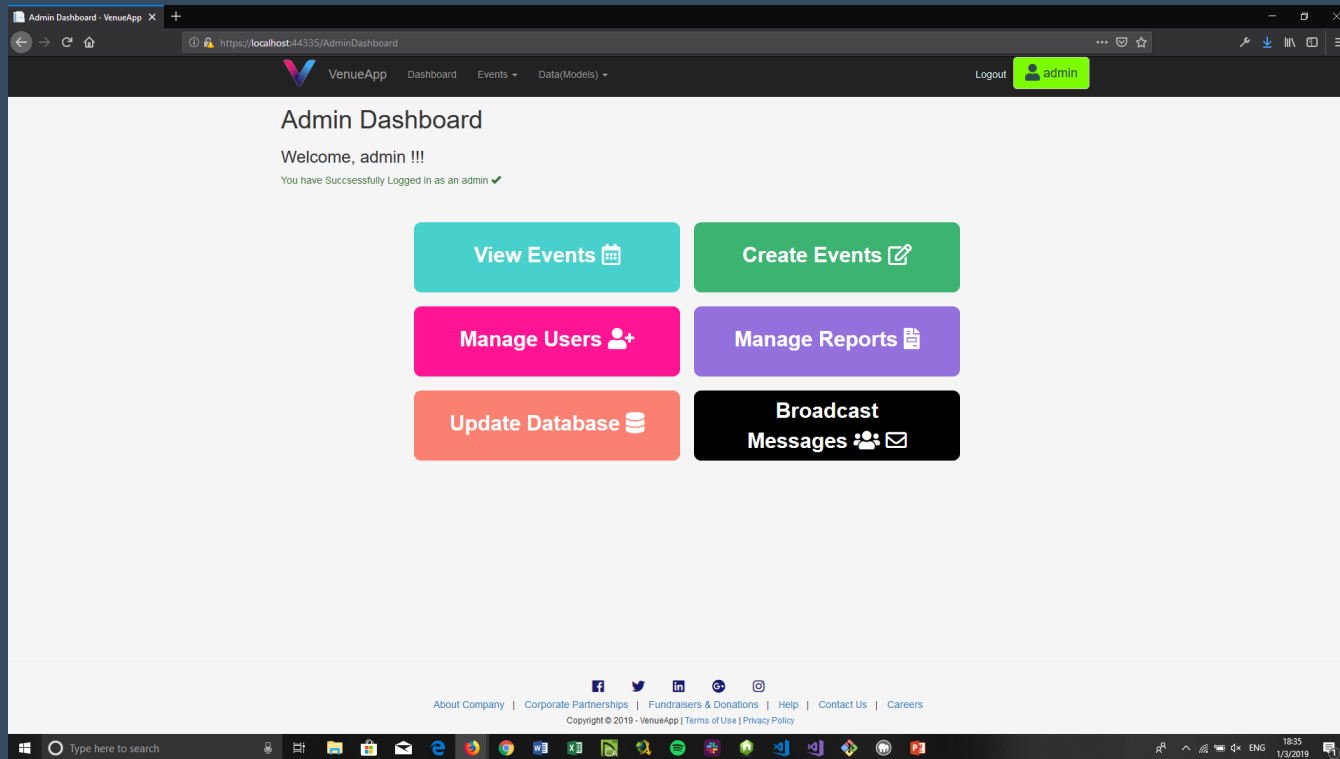
Type here to search

18:23 1/3/2019





# Demo (Admin Dashboard)



# Demo (Manage Users by Admin - Index)

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	Guiyed	Edit   Book Event
4	Daniel	Edit   Book Event

About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers

Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy



# Demo (Manage Users by Admin – Add)

The screenshot shows a web browser window with the address bar displaying `https://localhost:44335/User/Add`. The browser's address bar and tabs show the page title "Add User - VenueApp". The VenueApp navigation bar includes a logo, "VenueApp", "Dashboard", and "Events". A "Logout" button and a user profile icon labeled "admin" are visible in the top right corner.

## 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](#)

At the bottom of the page, there is a footer with social media icons (Facebook, Twitter, LinkedIn, GitHub, Instagram) and a list of links: "About Company", "Corporate Partnerships", "Fundraisers & Donations", "Help", "Contact Us", and "Careers". Below these links is the copyright notice: "Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy". The Windows taskbar at the very bottom shows the search bar and various application icons.



# Demo (Manage Users by Admin – edit)

Edit User Guiyed(Id=3) - VenueApp X

https://localhost:44335/User/Edit?userId=3

VenueApp Dashboard Events Logout admin

## Edit User Guiyed(Id=3)

Edit User Data

Username  
Guiyed

Email  
g@ic.com

First Name  
Guillermo

Last Name  
Zerpa

Password  
\*\*\*\*\*

Birthday  
mm / dd / yyyy

PhoneNumber

Location

Membership  
Bronze

Role  
user

Edit User

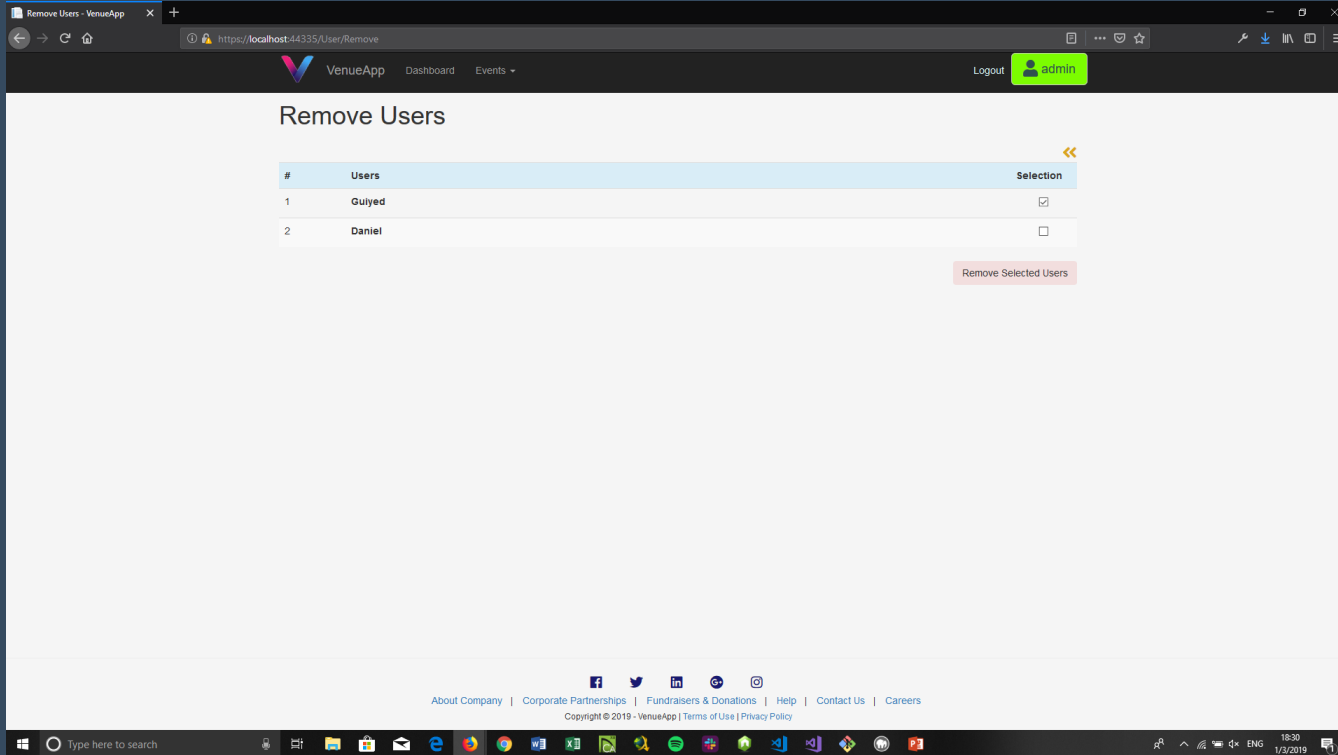
About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers  
Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy

Type here to search

18:29 1/3/2019



# Demo (Manage Users by Admin - delete)



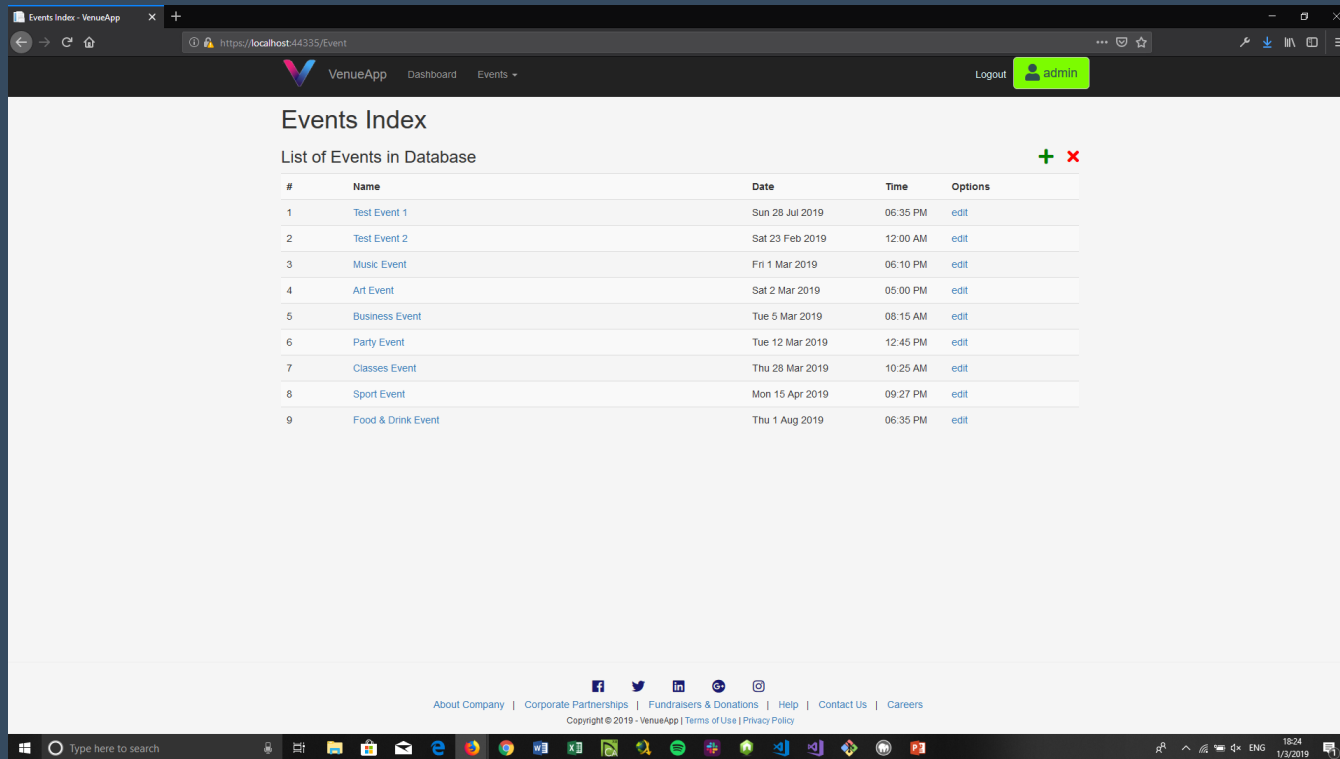
The screenshot displays the 'Remove Users' page in the VenueApp. The browser address bar shows the URL `https://localhost:44335/User/Remove`. The app's navigation bar includes the VenueApp logo, 'Dashboard', 'Events', a 'Logout' link, and a user profile for 'admin'. The main content area is titled 'Remove Users' and features a table with the following data:

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

Below the table, there is a red button labeled 'Remove Selected Users'. The footer of the page contains social media links, a copyright notice for 2019, and a list of links including 'About Company', 'Corporate Partnerships', 'Fundraisers & Donations', 'Help', 'Contact Us', and 'Careers'. The Windows taskbar at the bottom shows the search bar and various application icons.



# Demo (Manage Events by Admin)



The screenshot displays a web browser window with the URL `https://localhost:44335/Event`. The page title is "Events Index" and the subtitle is "List of Events in Database". The page features a table with 9 events, each with a unique ID, name, date, time, and an edit link. The table is styled with a light gray background and blue links. The page also includes a navigation bar with "VenueApp", "Dashboard", and "Events" links, a "Logout" button, and a user profile "admin". At the bottom, there are social media icons and a footer with copyright information.

Events Index

List of Events in Database

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

About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers

Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy



# Demo (Manage Categories by 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](#)

About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers

Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy



# Demo (Manage Memberships by Amin)

The screenshot displays a web application interface for managing memberships. The browser address bar shows the URL `https://localhost:44335/Membership`. The application header includes the 'VenueApp' logo, navigation links for 'Dashboard', 'Events', and 'Data/Models', and a user profile for 'admin' with a 'Logout' button. The main content area is titled 'List of Memberships' and contains a table with the following data:

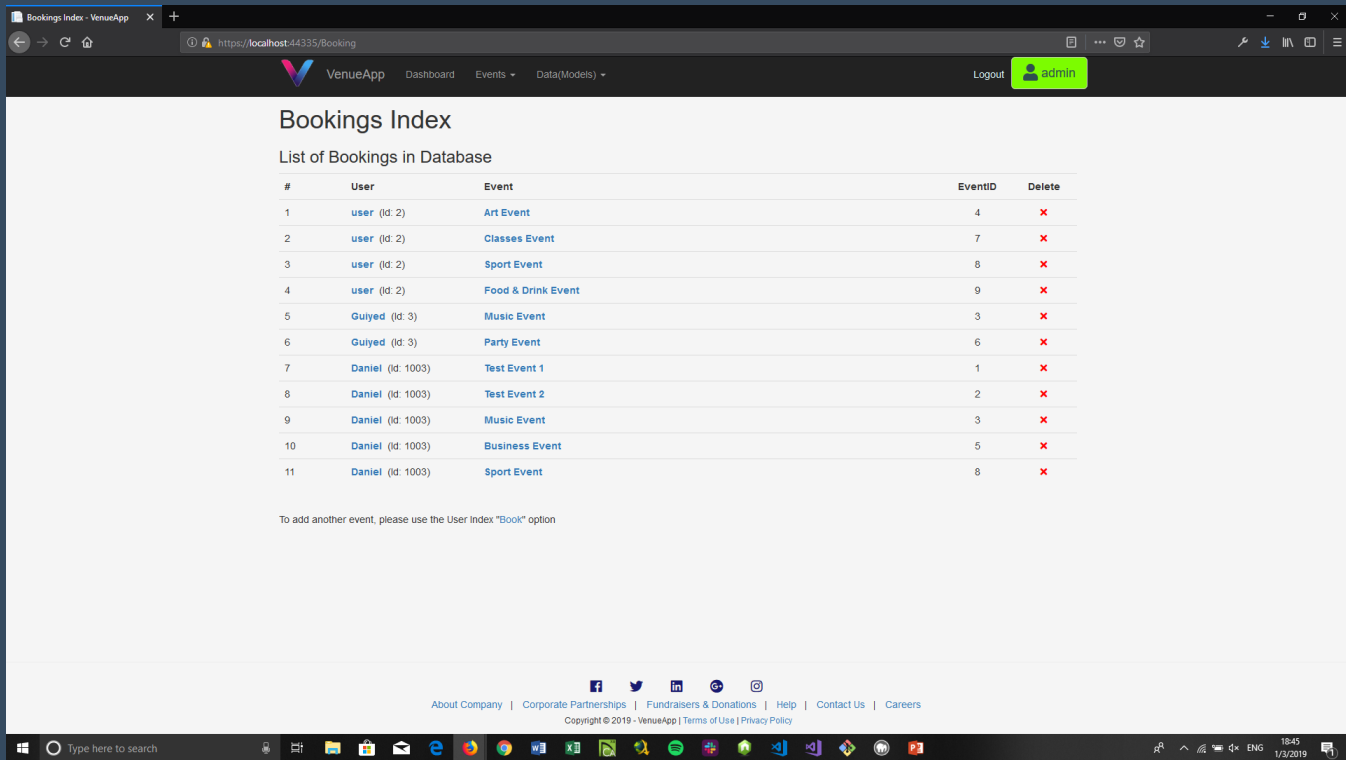
ID = 1: <b>none</b>	(Protected)
ID = 2: <b>Bronze</b>	(Protected)
ID = 3: <b>Silver</b>	(Protected)
ID = 4: <b>Gold</b>	(Protected)

Below the table, there are links for 'Add' and 'Remove'. The footer of the application includes social media icons, a list of links (About Company, Corporate Partnerships, Fundraisers & Donations, Help, Contact Us, Careers), and copyright information for 2019.





# Demo (Manage Bookings by Admin)



Bookings Index - VenueApp

https://localhost:44335/Booking

VenueApp Dashboard Events Data/Models

Logout admin

## Bookings Index

List of Bookings in Database

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

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

About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers

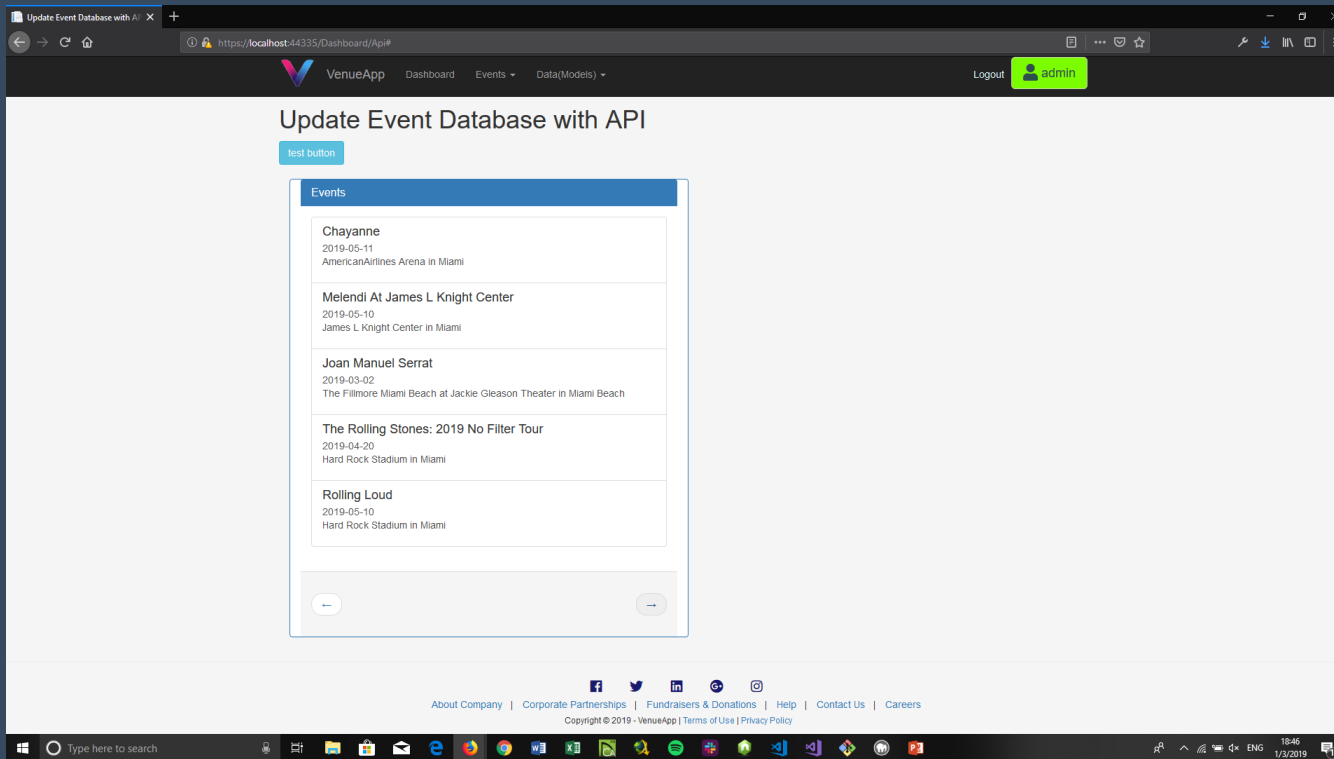
Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy

Type here to search

18:45 1/3/2019



# Demo (Interacting Event API - show)



The screenshot shows a web browser window with the URL `https://localhost:44335/Dashboard/Api#`. The page title is "Update Event Database with API". Below the title is a blue "test button". A modal window titled "Events" is open, displaying a list of events:

Events
<b>Chayanne</b> 2019-05-11 AmericanAirlines 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 navigation arrows. The footer of the page includes social media icons and links: "About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers". The copyright notice is "Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy". The Windows taskbar at the bottom shows the time as 18:46 on 1/3/2019.




# Demo (Interacting Event API - details)

Update Event Database with API

test button

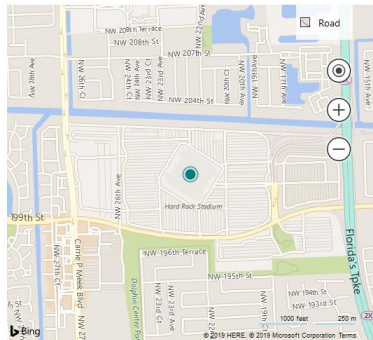
Attraction

Rolling Loud



Music - Undefined - Undefined

Hard Rock Stadium - Miami, FL



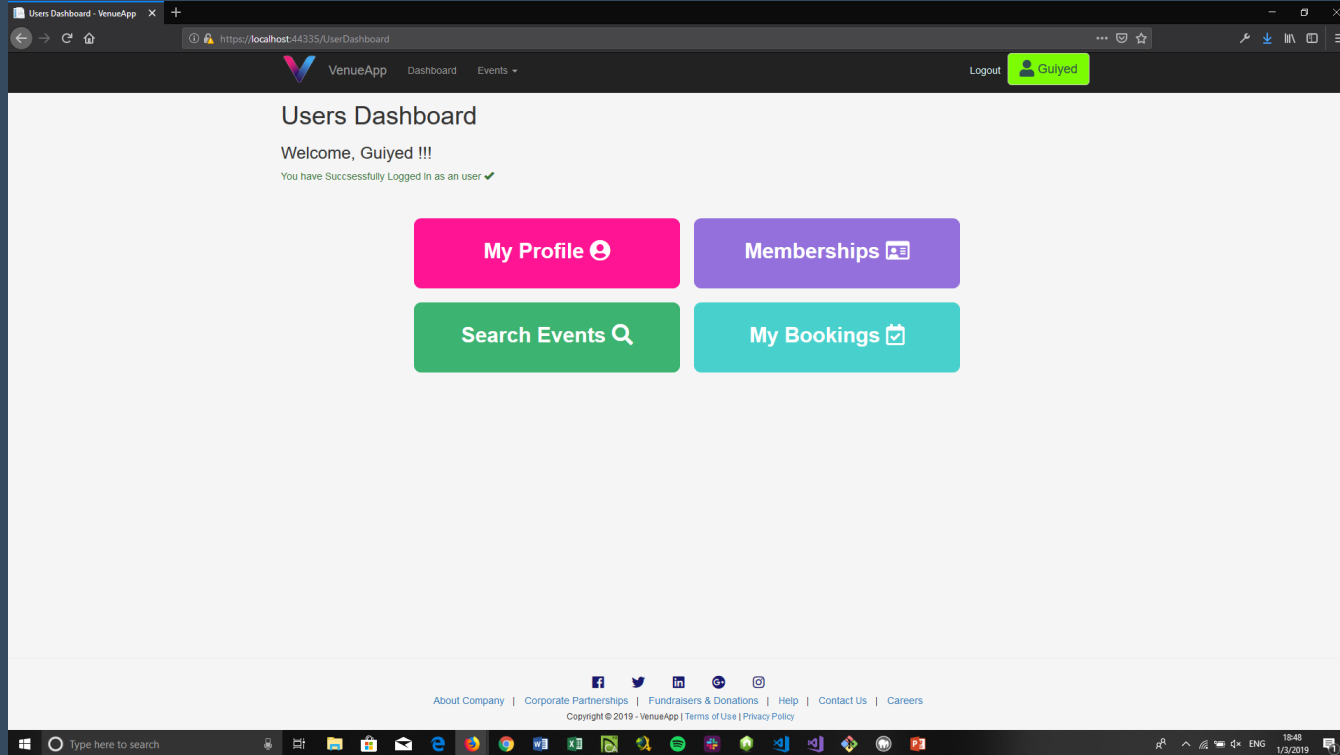
Location by BingMaps

About Company | Corporate Partnerships | Fundraisers & Donations | Help | Contact Us | Careers

Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy



# Demo (User Dashboard)



# Demo (User Profile - Home)


User Profile - VenueApp

https://localhost:44335/User/Profile?userId=3

VenueApp Dashboard Events

Logout Guiyed

## User Profile



Upload a different photo...

Select one Picture or

Browse... No file selected.

Go

**Profile**

**Joined** 1/1/0001

**Name** Guillermo Zerpa

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

**Email** g@k.com

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

**Membership**

Bronze

**Username:** "Guiyed"

**ID:** "3"

Messages Bookings Settings

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
Nuliam sapien massaoror: A lobortis vitae, condimentum justo...	2.11.2019
Thilam sapien massaoror: A lobortis vitae, condimentum justo...	2.11.2019
Wesm sapien massaoror: A lobortis vitae, condimentum justo...	2.11.2019
For therepien massaoror: A lobortis vitae, condimentum justo...	2.11.2019
Also we, havesapien massaoror: A lobortis vitae, condimentum justo...	2.11.2019
Swedish chef is assaoror: A lobortis vitae, condimentum justo...	2.11.2019

[About Company](#) | [Corporate Partnerships](#) | [Fundraisers & Donations](#) | [Help](#) | [Contact Us](#) | [Careers](#)

Copyright © 2019 - VenueApp | [Terms of Use](#) | [Privacy Policy](#)

Type here to search

18:48  
1/3/2019

# Demo (User Profile – View Bookings)


User Profile - VenueApp

https://localhost:44335/User/Profile?userId=3

VenueApp Dashboard Events

Logout Guiyed

## User Profile



Upload a different photo...

Select one Picture or

Browse... No file selected. Go

**Profile**


**Joined** 1/1/0001

**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 @ 06:10PM	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](#)



[About Company](#) | [Corporate Partnerships](#) | [Fundraisers & Donations](#) | [Help](#) | [Contact Us](#) | [Careers](#)

Copyright © 2019 - VenueApp | [Terms of Use](#) | [Privacy Policy](#)

Type here to search

18:53 1/3/2019



# Demo (User Profile - Settings)


User Profile - VenueApp x

https://localhost:44335/User/Profile?userId=3

VenueApp Dashboard Events

Logout Guilyed

## User Profile




Upload a different photo...


Select one Picture or

No file selected.

Profile	
Joined	1/1/0001
Name	Guillermo Zerpa
Birthday	-- / -- / --
Email	g@k.com

Website 

[Github.com](#)

Membership 

Bronze

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

Username: "Guilyed" ID: "3"

First name

Guillermo

Last name

Zerpa

Phone Number

PhoneNumber

Birthday

mm / dd / yyyy

Email

g@k.com

Location

somewhere

Password

\*\*\*\*\*

Verify Password

verify password

# Demo (Manage Bookings by User)

The screenshot displays a web application interface for managing bookings. The browser address bar shows the URL `https://localhost:44335/Booking/Scheduled?userId=3`. The navigation bar includes the VenueApp logo, links to Dashboard and Events, a Logout button, and a user profile dropdown for 'Guied'. The main heading is '"Guied's" Scheduled events'. Below this is a table with the following data:

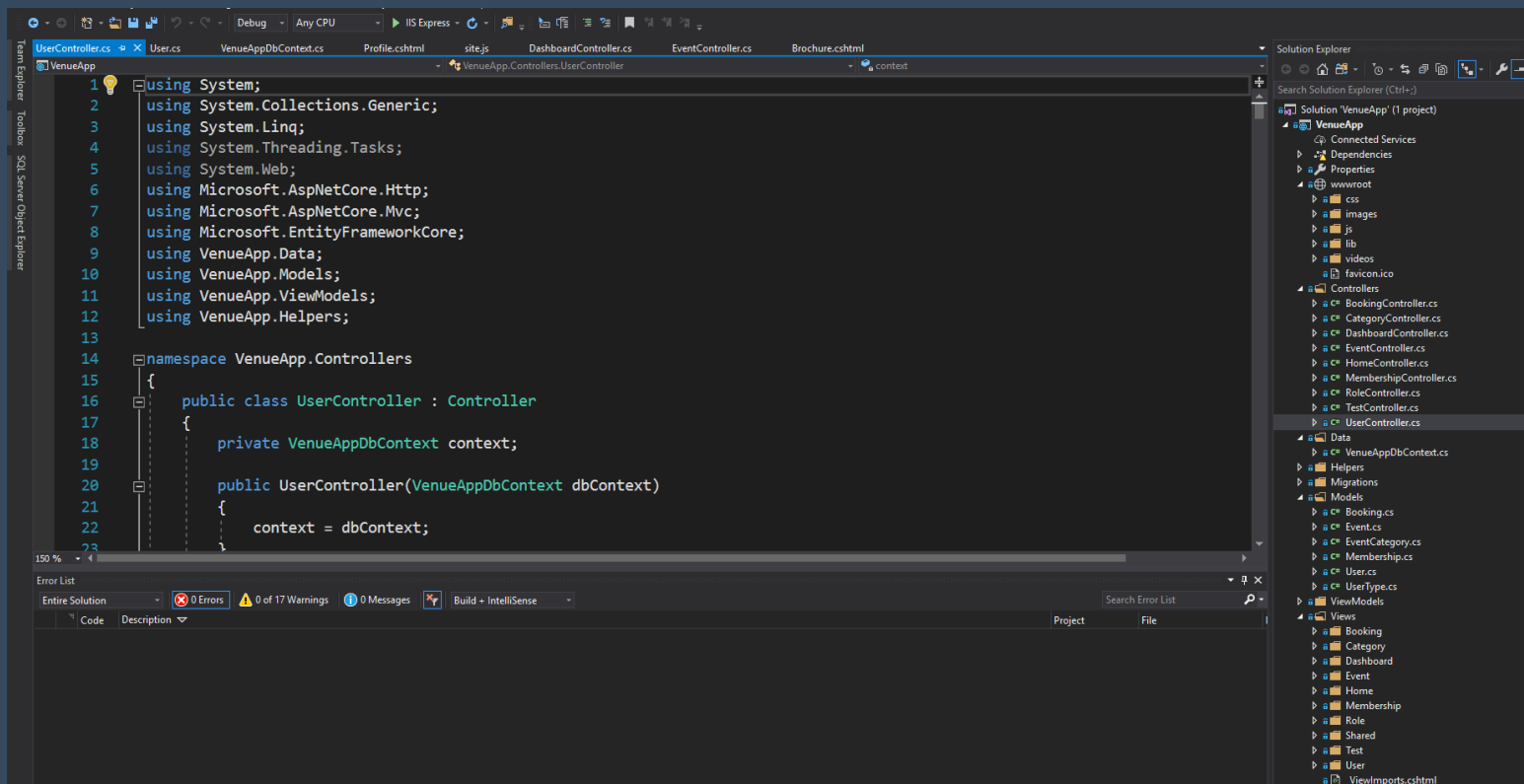
#	Event Name	Date	Time	Category
1	Music Event	Fri 1 Mar 2019	06:10 PM	Music
2	Party Event	Tue 12 Mar 2019	12:45 PM	Parties
3	Sport Event	Mon 15 Apr 2019	09:27 PM	Sports
4	Food & Drink Event	Thu 1 Aug 2019	06:35 PM	Food & Drinks

Below the table, there is a link: [Add another Event to your bookings](#). The footer contains social media icons, a list of links (About Company, Corporate Partnerships, Fundraisers & Donations, Help, Contact Us, Careers), and copyright information: Copyright © 2019 - VenueApp | Terms of Use | Privacy Policy. The Windows taskbar at the bottom shows the search bar and various application icons.





# Demo (Solution Explorer)



# What I Learned

- This is the largest project I have built on any platform to date.
- I finally understood CSS and got proficient with Bootstrap 3.3.7
- I became more proficient reading documentation and searching information on Google.
- I learn the hard way how to implement sessions and roles. It is harder and more difficult to build than what I thought.
- I learned how created separate Dashboards for an user and a admin.
- I learned how to integrate “tabs” in a single page. I used this for my profile view.



# What I Learned (continued)

- I learned some JavaScript via reverse engineering of running examples.
- I learned what is an API and how to interact or connect with an API via AJAX.
- 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).
- Add better *Password* security and implement the "Forgot password" feature.
- 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.

