

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. 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 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 3rd 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.

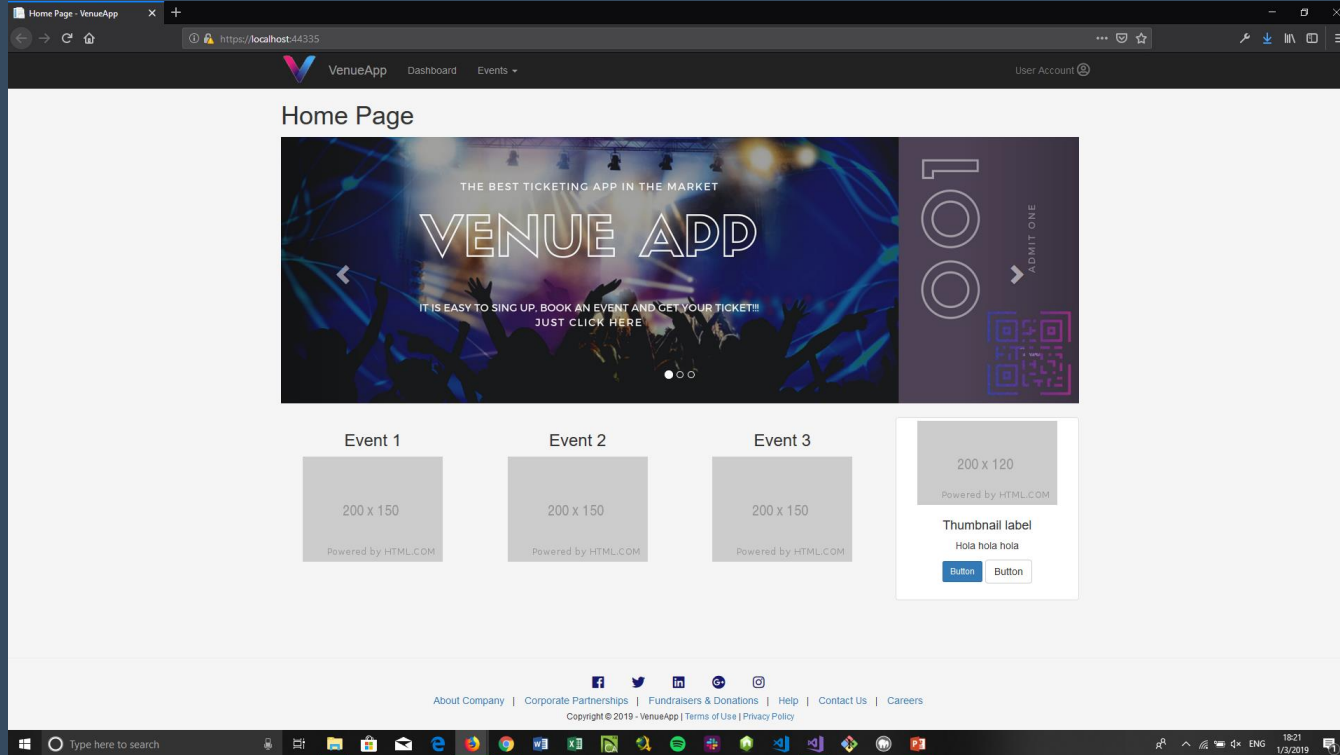


Technology Stack

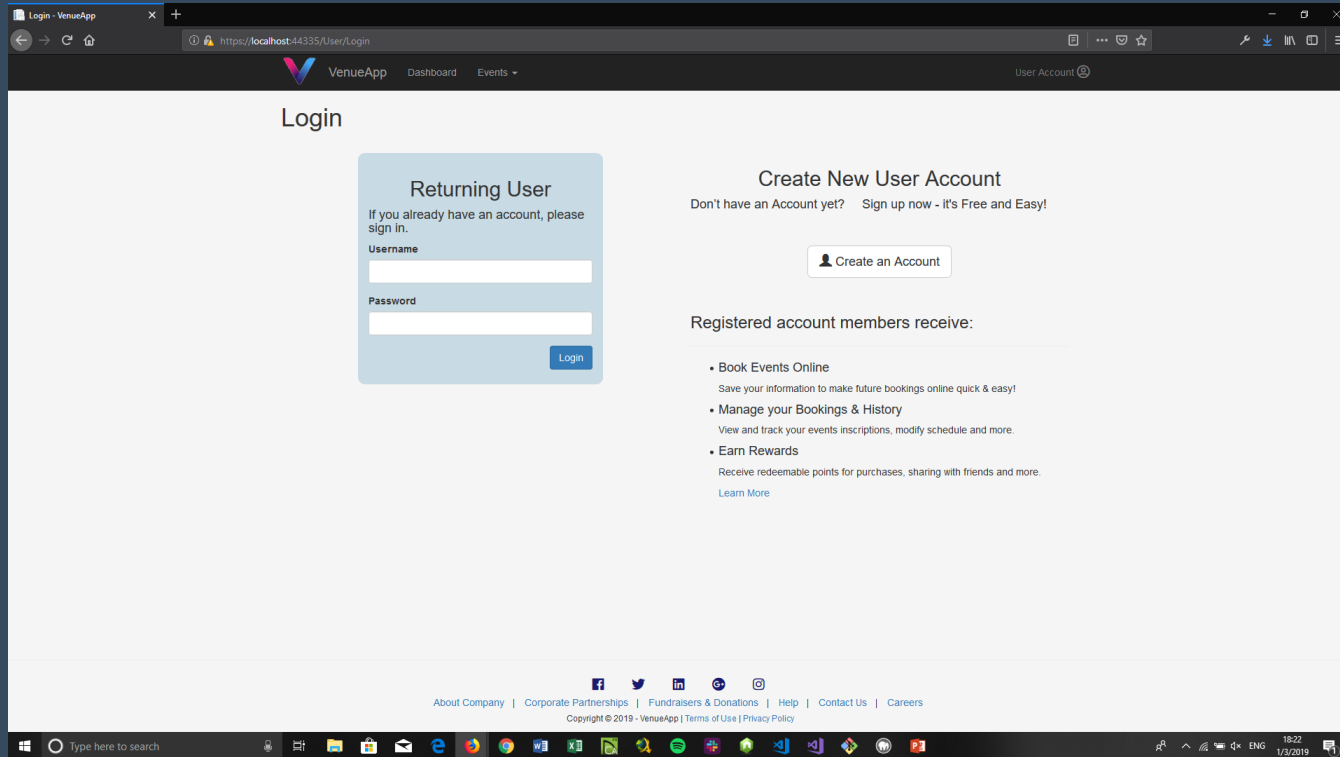
- Language: C#
- IDE: Visual Studio 2017
- Framework: ASP.NET Core MVC
- Template engine: Razor Pages
- Database engine: SQL Server Database (Managed by Microsoft Entity Framework)
- Front End and UI: Bootstrap, HTML and CSS
- API Interactions: JavaScript and Ajax



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](#)

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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 *

Sing Up

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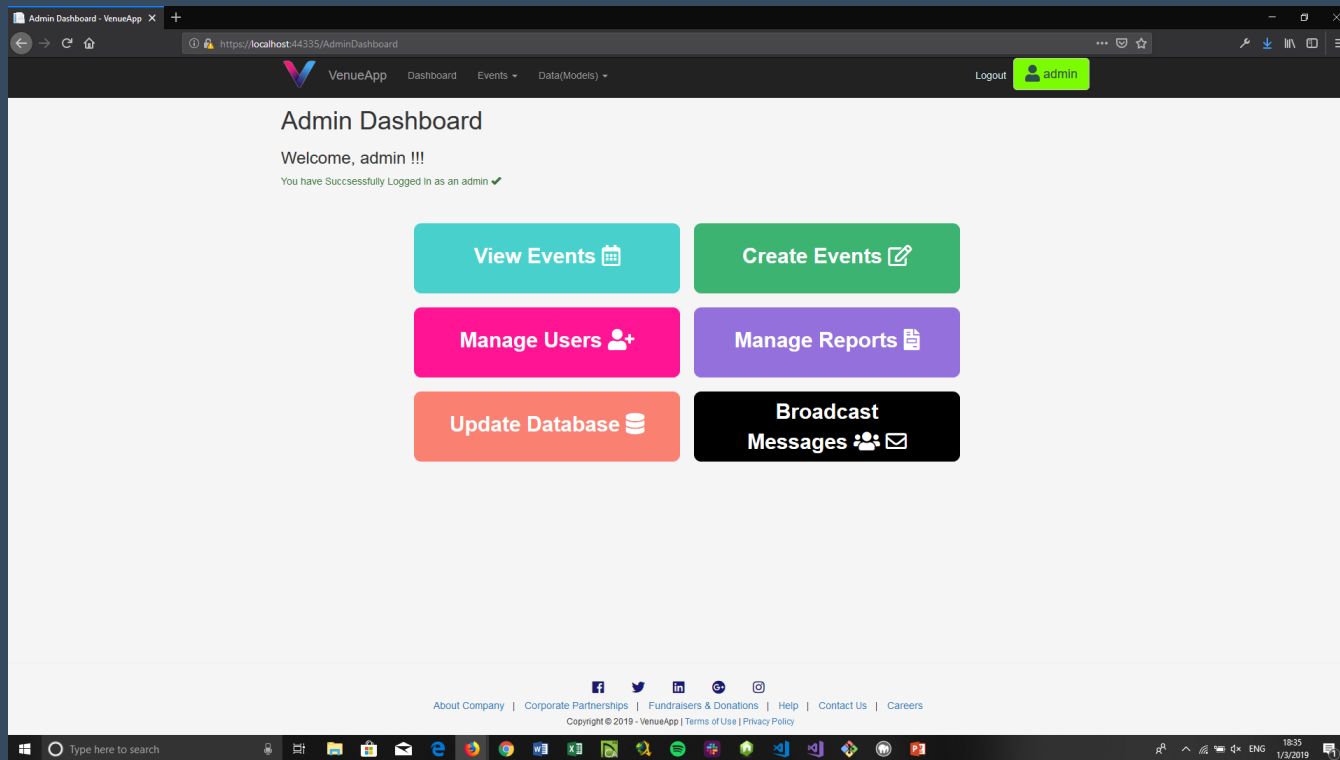
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Type here to search

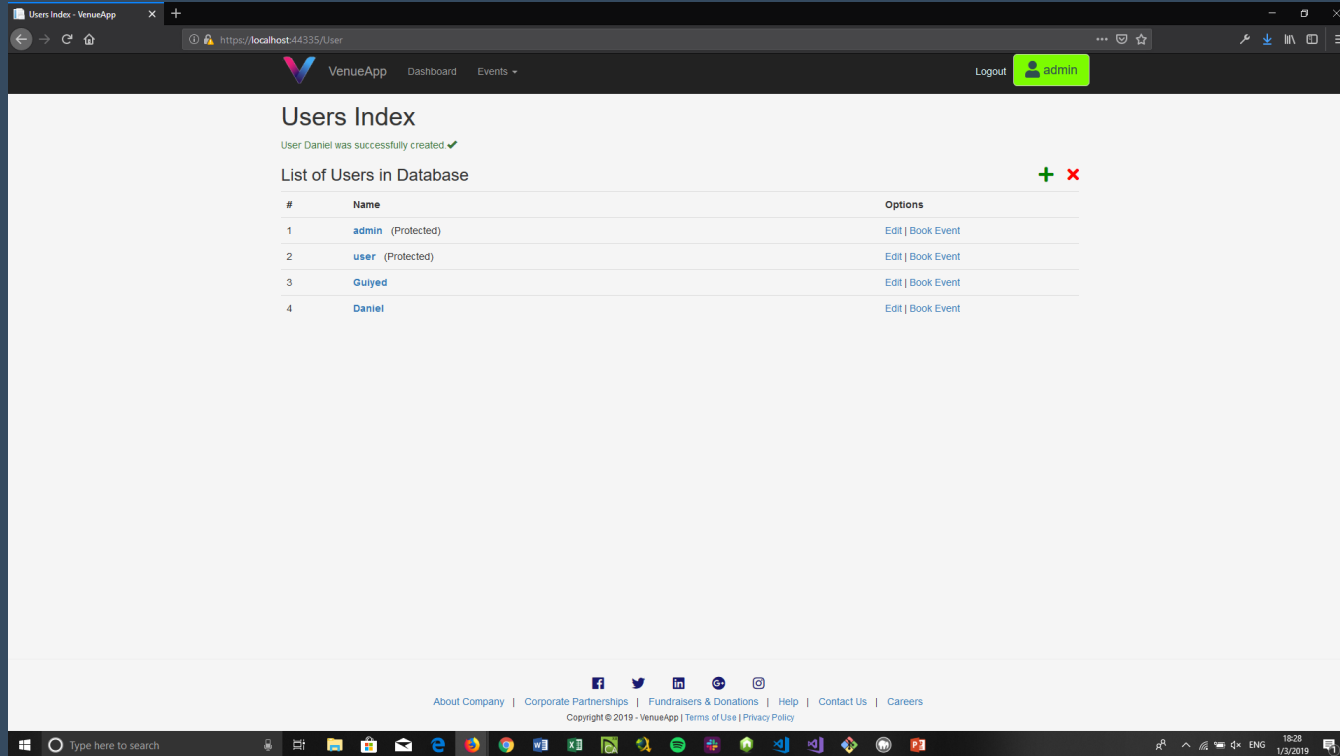
18:23 1/3/2019



Demo (Admin Dashboard)



Demo (Manage Users by Admin - Index)



Users Index

User Daniel was successfully created ✓

List of Users in Database

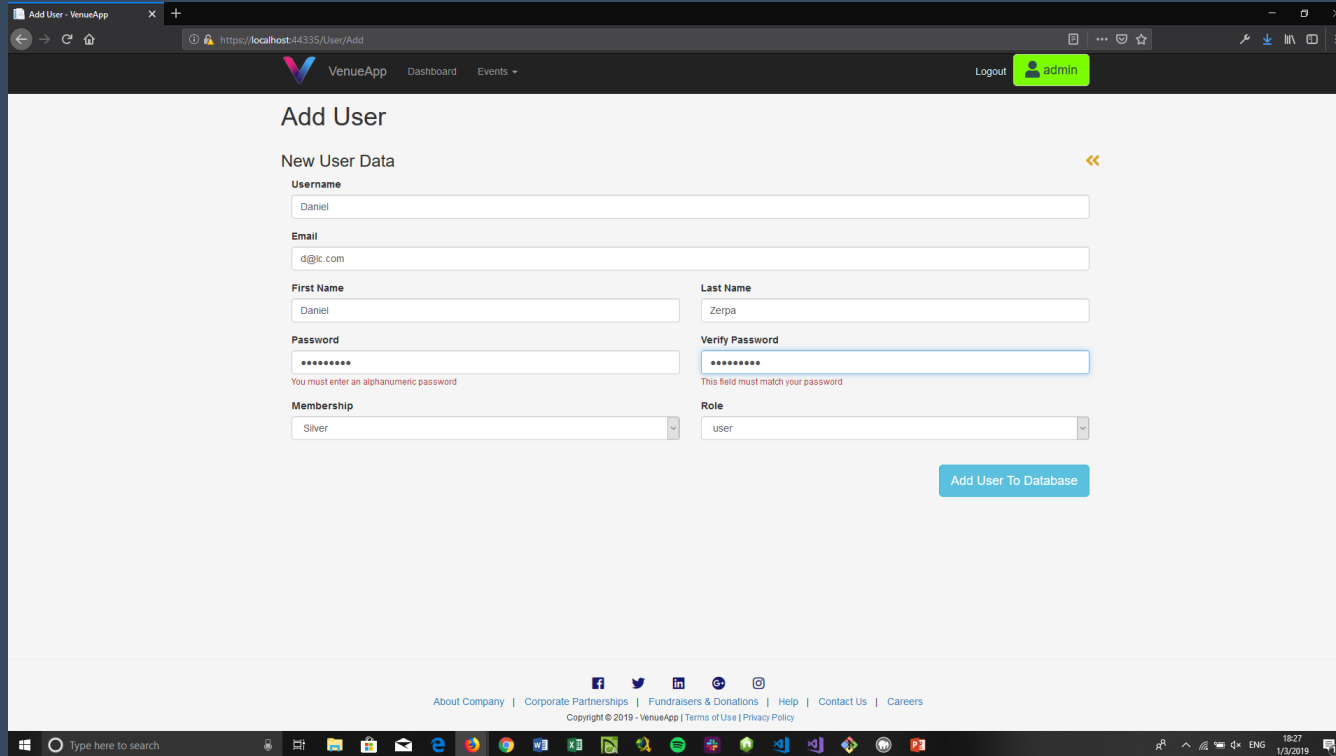
#	Name	Options
1	admin (Protected)	Edit Book Event
2	user (Protected)	Edit Book Event
3	Guiyed	Edit Book Event
4	Daniel	Edit Book Event

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Demo (Manage Users by Admin – Add)



The screenshot shows a web browser window with the address bar displaying `https://localhost:44335/User/Add`. The page title is "Add User - VenueApp". The VenueApp logo and navigation links "Dashboard" and "Events" are visible in the header. A "Logout" button and a user profile icon labeled "admin" are in the top right. The main content area is titled "Add User" and contains a "New User Data" form. The form fields are: Username (Daniel), Email (d@ic.com), First Name (Daniel), Last Name (Zerpa), Password (masked with dots), and Verify Password (masked with dots). A red error message "You must enter an alphanumeric password" is shown below the Password field. The Membership dropdown is set to "Silver" and the Role dropdown is set to "user". A blue "Add User To Database" button is at the bottom right. 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.

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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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

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Type here to search

18:29 1/3/2019



Demo (Manage Users by Admin - delete)

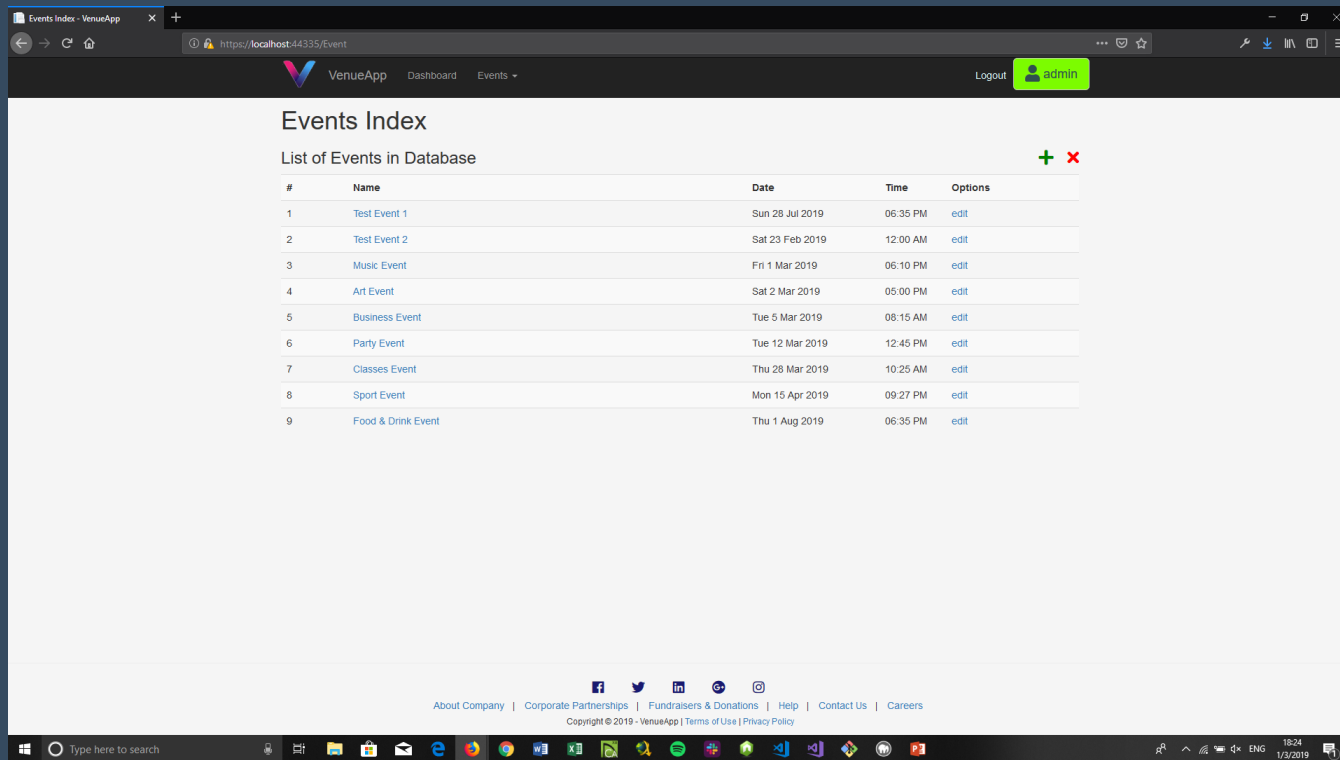
The screenshot displays the 'Remove Users' page in the VenueApp. The browser address bar shows the URL `https://localhost:44335/User/Remove`. The page header includes the VenueApp logo, navigation links for 'Dashboard' and 'Events', a 'Logout' button, and a user profile for 'admin'. The main content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

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

Below the table is a red button labeled 'Remove Selected Users'. The footer of the page contains social media links, 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 time as 18:30 on 1/3/2019.



Demo (Manage Events by Admin)



The screenshot shows a web browser window displaying the 'Events Index' page of the 'VenueApp'. The page title is 'Events Index' and the subtitle is 'List of Events in Database'. There are green '+' and red '-' icons to the right of the subtitle. Below the subtitle is a table with 9 rows of event data. The table has columns for '#', 'Name', 'Date', 'Time', and 'Options'. Each row contains an event name, its date, time, and an 'edit' link. The footer of the page includes 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 browser's address bar shows 'https://localhost:44335/Event' and the user is logged in as 'admin'.

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



Demo (Manage Categories by Admin)

List of Categories

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

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

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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	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, 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

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

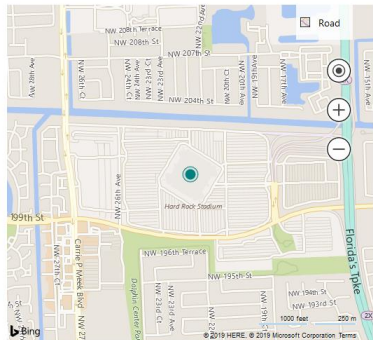
Attraction

Rolling Loud



Music - Undefined - Undefined

Hard Rock Stadium - Miami, FL



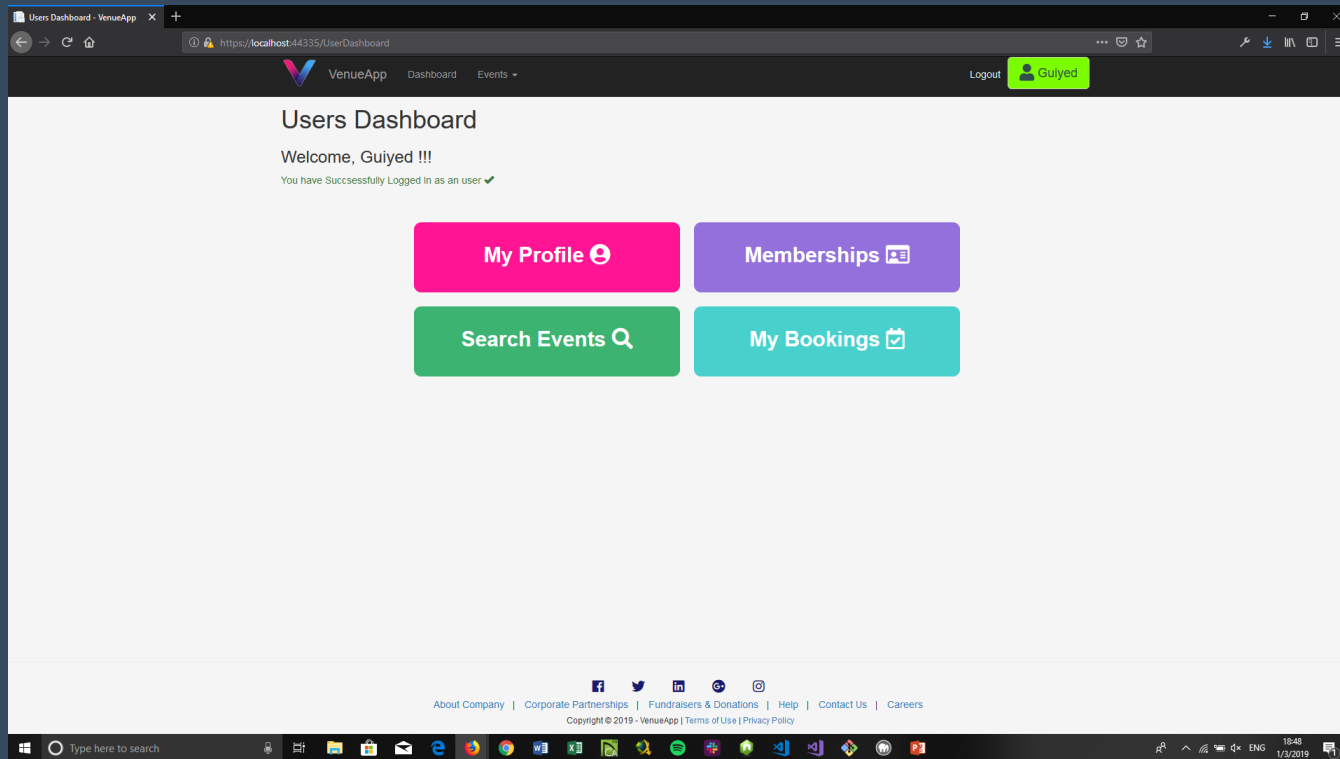
Location by BingMaps

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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

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Type here to search



18:48 1/3/2019 ENG



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	show
2	Party Event	12/03/19 @ 12:45PM	Parties	show
3	Sport Event	15/04/19 @ 09:27PM	Sports	show
4	Food & Drink Event	01/08/19 @ 06:35PM	Food & Drinks	show

< >


[Click Here to manage your Reservations](#)



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Type here to search



18:53 1/3/2019 ENG



Demo (User Profile - Settings)


User Profile - VenueApp x +

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

VenueApp Dashboard Events

Logout Guiyed

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

Username: "Guiyed"

ID: "3"

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

First name

Phone Number

Email

Password

Last name

Birthday

Location

Verify Password

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18:53 1/3/2019



Demo (Manage Bookings by User)

The screenshot shows a web browser window displaying the 'Scheduled events' page for a user named 'Guiyed'. The page title is '"Guiyed's" Scheduled events'. Below the title is a table with 5 columns: '#', 'Event Name', 'Date', 'Time', and 'Category'. There are 4 rows of event data. To the right of the table are two small icons, a green plus sign and a red minus sign. Below the table is a link that says 'Add another Event to your bookings'. The footer of the page 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 browser's address bar shows the URL 'https://localhost:44335/Booking/Scheduled?userId=3'. The Windows taskbar is visible at the bottom of the screen.

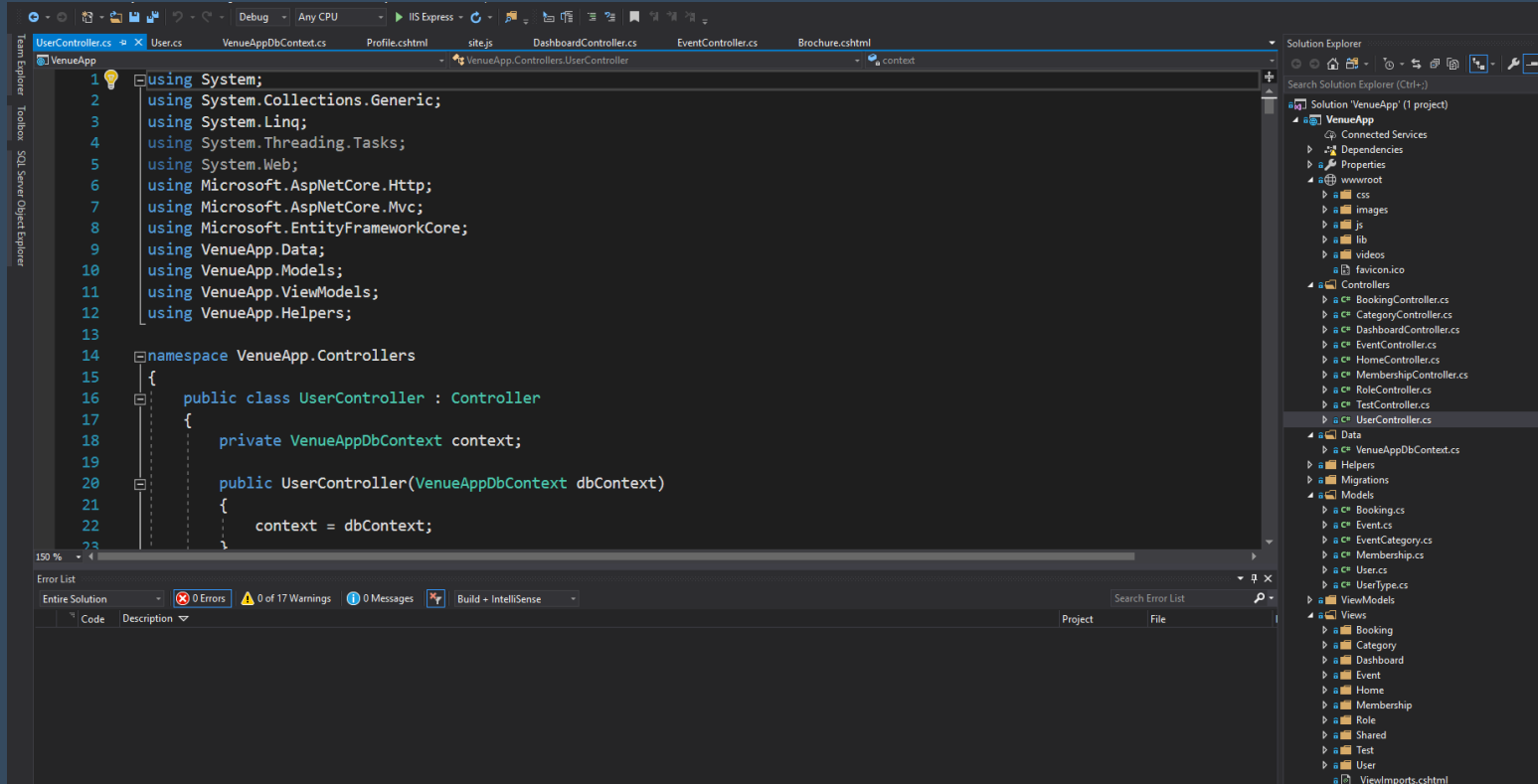
#	Event Name	Date	Time	Category
1	Music Event	Fri 1 Mar 2019	06:10 PM	Music
2	Party Event	Tue 12 Mar 2019	12:45 PM	Parties
3	Sport Event	Mon 15 Apr 2019	09:27 PM	Sports
4	Food & Drink Event	Thu 1 Aug 2019	06:35 PM	Food & Drinks

[Add another Event to your bookings](#)

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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 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.



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.

