# GIGAPP: An App Built Exclusively for Gig Lovers

Maitrayee Mahanta<sup>1</sup>, Dr Bhuvana J<sup>2</sup>

<sup>1</sup>MCA Scholar, Jain University, Bangalore, Karnataka <sup>2</sup> Faculty, Department of MCA, Bangalore, Karnataka

Abstract - For any artist it is so important to have the right people as their audience to express or showcase their talent. There are multiple Social apps already available on Internet like Facebook, Twitter etc but they don't guarantee the reach of correct audiences to their gigs. Hence, the proposed project aims at developing a mini social network app for all the gigs lovers who loves to track gigs of their favourite artists and follow them as well. Along with the users, an Artist will also be able to announce their upcoming gigs and will have a greater reach of audience as this app will be built on functionalities that will help them to segregate users as well as artists according to their preferred genre. This project is going to be developed using Microsoft's ASP.NET technology which is an open-source development platform and C#, which is a simple, modern, object-oriented programming language along with various front-end technologies like HTML, CSS, JavaScript, Bootstrap etc. Technologies like Entity Core Framework is used to connect the application with the database.

*Index Terms* - Web development, ASP.NET, C#, Application.

#### I.INTRODUCTION

There are many web development technologies available today which makes the process of building apps very much efficient. Microsoft's .NET technology is a software framework which includes a large collection of libraries also known as class library and provides support for multiple programming languages such as C#, VB.NET, F# etc. The execution environment in .NET framework is maintained by the CLR, known as Common Language Runtime. The CLR is responsible for managing memory, handling exceptions and taking care of security of the system. .NET Framework is collectively formed using class library and the CLR.

Currently there are two variants of .NET: 1. .NET FRAMEWORK

#### 2. .NET CORE

.NET framework is used exclusively for windows platform whereas to build cross platform applications, we can use .NET core which is supported by LINUX, MAC and WINDOWS.

The proposed project aims to use .NET Core to build the application primarily to make it portable. C#, which is a programming language supporting objects and classes, is used to write the functionalities of the applications.

Following are the functionalities which can be carried out by a use in GigApp:

- 1. Login and Signup using JWT authentication.
- 2. Gigs related activities (Search, Display, Add, Update)
- 3. Follow
- 4. Sign out

#### **II.OBJECTIVES**

To develop a mini social networking app exclusively for gig lovers. The applications will contain the following as end-users:

- 1. Artist
- 2. User

# III.PROBLEM WITH EXISTING APPLICATIONS

- 1. There is no app built specifically for gig artist and users who loves gigs.
- 2. Social media apps do not guarantee reach of correct gig audience.

#### IV.LITERATURE REVIEW

- 1. In this paper, the author talks about designing a bus tracking and fuel monitoring system using ASP.NET MVC.
- 2. This paper aims at discussing and developing system covering all the aspects of supply chain / logistics management using ASP.NET.

- 3. According to the author, the main objective is to develop a site where farmers can directly interact with government to seek help for their problems.
- 4. In this paper, the author conducts a research on the design and implementation of computer network virtual laboratory using ASP.NET technology.

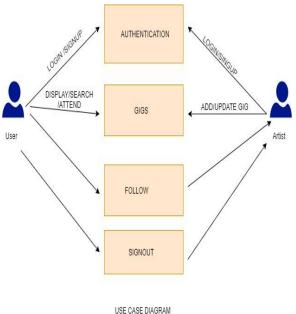
### V. PROBLEM STATEMENT

There are many social applications available on internet today, but not a single app is built exclusively for Gig Lovers.

### VI.SOLUTION

Using ASP.NET, an app can be built exclusively for gig lovers which will solve all the existing problems with other social applications.

Because of its cross-platform nature and open-source capabilities, ASP.NET Core is very much efficient to be used for developing any kind of applications.



## VII.SYSTEM ARCHITECTURE

Fig 1: Architecture of Gig App

- 7.1 Modules used in the system:
- 1. Authentication: User/Artist can sign up to the application and is differentiated based on their roles. JWT authentication techniques is used to generate web tokens and authorise users based on their roles.

- 2. Gigs: An artist have the privileges of adding a new gig to the feed or update and existing gig. A user on the other hand can view all the upcoming gigs, search a gig based on their interests such as genre, or venue.
- 3. Follow: Each user can follow any number of artists they like
- 4. Sign-out: An artist or a user can also sign-out of the application.

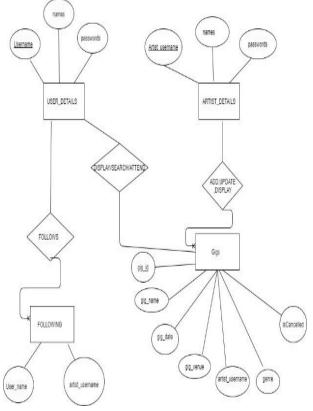


Fig 2: ER diagram

- 7.2 Entities used in this application:
- ArtistDetails: A table containing artist user id, name and password.
- User detail: A table containing user credentials.
- Gigs: This table consists all the details of a gig like its id, name, name of the artist who is organising it, location of the gig, date and also records the details if the gig has been cancelled. It refers primary key artist user id as foreign key in its table.
- Follow: Contains details of all users following the artist they like.

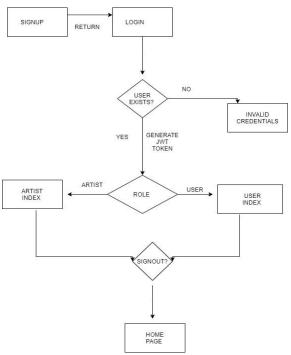


Fig 3: Flow chart of the system

Working of the system:

A user can sign up to the system. On successful sign up the page will be redirected to login page. On successful validation of user while trying to login, a JWT token will be generated which will authorise the user to have access to functionalities they are allowed to be based on their type of role – user or artist.

An artist has all the permission to add a gig, make changes to existing whereas a user can also view and search for gigs and follow their favourite artist.

While signing out from the system, the page will be redirected to the home page.

7.3 Technologies used:

- a. ASP.NET Core: framework used for developing the application.
- b. Entity core framework: Used for database connectivity.
- c. SQL Server 2019: Used as the primary database
- d. Visual Studio 2019: To write, compile and execute the code.
- e. ASP.NET MVC: to decouple User Interface from business and application logic.
- f. Front-end: HTML, JavaScript, CSS used for designing.

#### VIII. FUTURE ENHANCEMENTS

1. Can Implement ML techniques to implement Recommendation system

2. Can Deploy it in cloud to make it more scalable

# IX.RESULT

Some of the snapshots of the proposed system is as follows



# Fig 4: Home Page pf Gig App

The home page of the application contains signup and login options for both artists and users.



Fig 5: Sign-Up Page

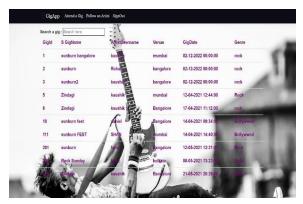
A user or an artist can register to the application using sign up option. On successful sign-up the page will be redirected to login page.

lighty tex:	
Enter your details to login	
Aristusename	
Pierwerds	
Login	
Back to Home	
	B: ANY PERSON OF COUNCY DOLLARS
	1
	Al management

Fig 6: Login Page

On successful login token will be generated and based on the user's role they will be redirected to their respective feeds.

# © May 2021 | IJIRT | Volume 7 Issue 12 | ISSN: 2349-6002



#### Fig 7 : User Feed

Once redirected to their respective feeds, users can perform operations such as adding gig, searching gig etc based on their roles.

rour C Jaconin							
learch a	i gig: Scarch here						
Giyld	GigName	ArtistUsemane	Venue	GigDala	Genre	IsCancelled	
1	suntum bangalore	szustis	munitar	02-12-2022 00:00:00	tock	10	UpcateGig   Distails
3	santum2	weathe	bangalore	02-12-2022 00:00:00	sock	10	UposteGig   Details
5	Zircəgi	kavatik	ietirum	12-04-2021 12:41:00	Rock	10	UpcateGig   Details
8	Zircagi	kaustik	Bangalore	17-04-2021 11:12:00	tock	yes	UprateGig   Details
722	Zecag	\$21.518	Bangaiors	21-05-2021 20:26:00	Hock	80	UpdateCig   Details

# Fig 8: Artist Feed

Artist can add, view and update a gig on their feed

Parameters		Try it out
Name	Description	
ArtistUsername • realed string (reff)	kaustik	
Passwords <del>* molori</del> nring <sub>(arm)</sub>	kausiiki123	

Fig 9 : Authentication testing in Swagger UI Before creating MVC, functionalities are tested in Swagger UI. Users need to login in order to have authorised access to specific actions

Code	Taelik
200	Reporte Jody
	{ "tributeren": "Instal", "Part (wheat the fact of t

Fig 10: Token Generation After successful login, bearer token is generated using JWT which is used to authorise users.

Please insert JWT token i	nto field		
Value:			

Fig 11: Authorization Enter the bearer token generated to authorise.

#### X.CONCLUSION

We can efficiently build any kind of web app using .NET technology.

#### REFERENCES

- Design of Bus Tracking and Fuel Monitoring System, IEEE 2017 Safa Abd elmonem, Murtada Mohamed, Mohamed Abd Elrahman ALagab
- [2] Design and Implementation of Supply Chain Management System Based on ASP.NET, IEEE 2020 Xiangjun Yu, Qiongjie Zhou
- [3] Software application to prevent suicides of farmers with asp.net mvc, IEEE 2017 A. Yaganteeswarudu, Vishnu Vardhan Y
- [4] Research on computer network virtual laboratory based on ASP.NET, IEEE 2017 JIA Xuebin
- [5] Discovering Security Vulnerabilities and Leaks in ASP.NET Websites, IEEE 2012 Huyam AL-Amro and Eyas El-Qawasmeh
- [6] asp.net and jsp frameworks in model view controller implementation, ieee 2006 Fawaz A. Masoud, Dana H. Halabi and Deema H. Halabi
- [7] Expert System Software for Domestic Animals, IEEE 2017 Mehmet bilan, Ali Hakan isik, tuncay yigit
- [8] Matlab Virtual Laboratory for Moodle based on .NET Technology. IEEE 2015 P. Bisták
- [9] Design and Development of Family- University Cooperative Education System, IEEE 2012 Zisheng LI1,2, Xiaoping XIAO3
- [10] Design and Implementation of Photographic Community System Based on ASP. NET MVC, IEEE 2019 Liu Yuanchun, Cheng Honghao
- [11] A Study on Information Security Emergency Plan Management System Based on ASP.NET, IEEE 2015 Xue Lv, Bensheng Yang

- [12] Teaching Students to Design and Implement Social Networks Using MVC as a Capstone Experience, IEEE 2013 Alan Shaw, Ph.D.
- [13] A Decision Support System for Diagnostics and Treatment Planning in Traumatic Brain Injury, IEEE 2017 Adil Umer, Jussi Mattila, Hilkka Liedes, Juha Koikkalainen, Jyrki Lötjönen, Ari Katila, Janek Frantzén, Virginia Newcombe, Olli Tenovuo, David Menon, Mark van Gils
- [14]Books Database Management System Design based on ASP, IEEE 2014 Bai XueBing
- [15] Comparison the processing speed between PHP and ASP.NET, IEEE 2016 Khampheth Bounnady and Khampaseuth Phanthavong, Somsanouk Pathoumvanh and Keokanlaya Sihalath