NETWORK BASED APPLICATION AND DESIGN - MILESTONE 5

Project Topic - Sports Meetup

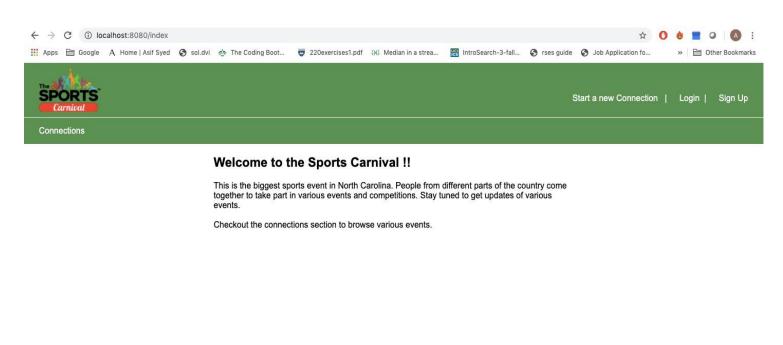
Name : Afreen Student ID : 801136632

Test User -- USERID : Test123 | PASSWORD : Test123

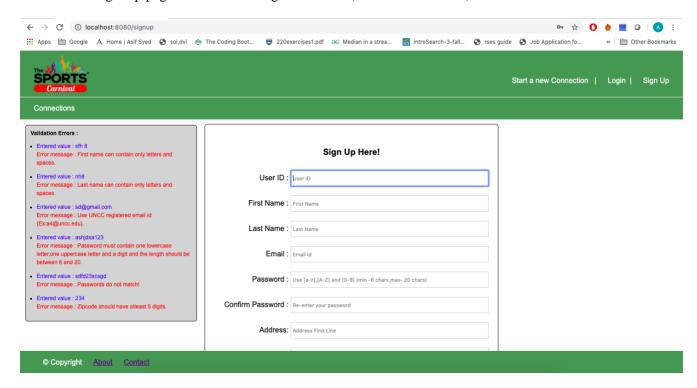
Afreen -- USERID: AF801136632 | PASSWORD: Afreen123

i. Homepage/Index page – Displays the welcome message.

Sports Meet Up



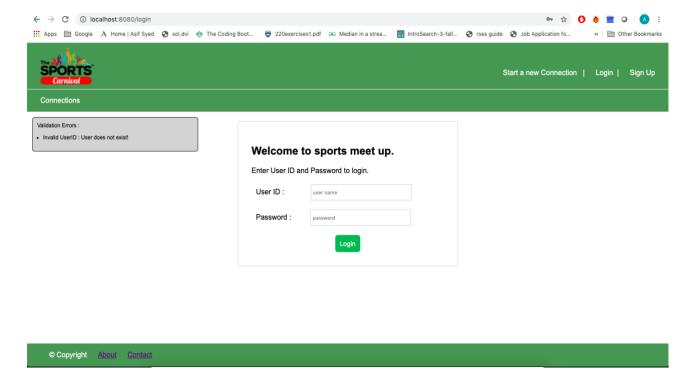
ii. Sign Up page – It is used to register a user. (Includes validation)



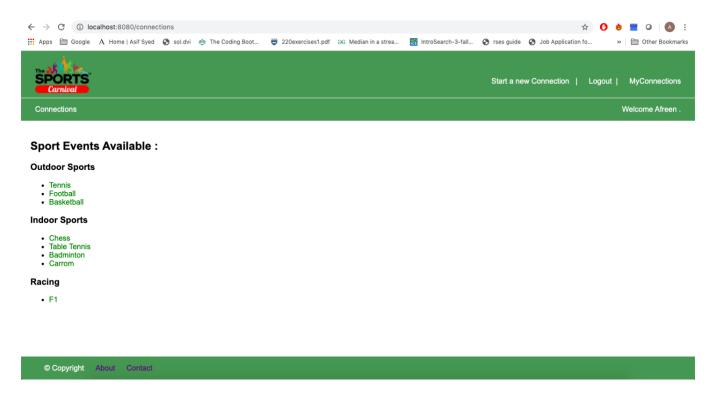
iii. Login Page – It is used for a user to login with a user ID and password. (Validated for both User ID and password).

Test User -- USERID: Test123 | PASSWORD: Test123

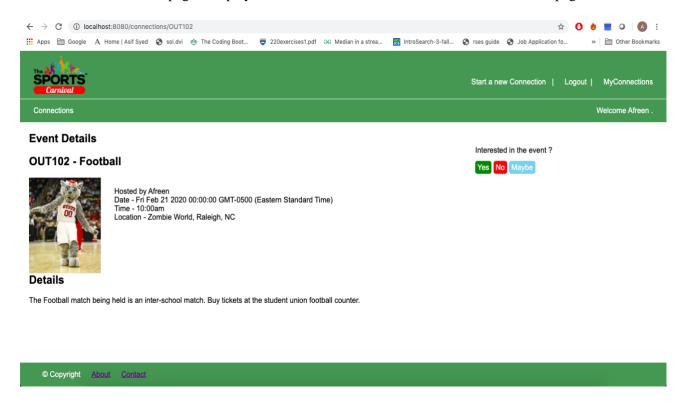
Afreen -- USERID: AF801136632 | PASSWORD: Afreen123



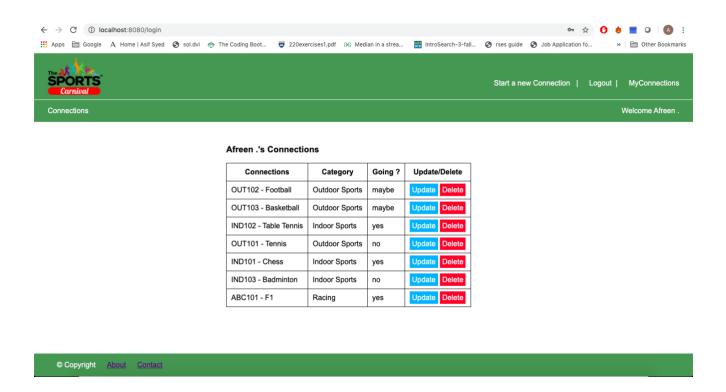
iv. Connections page – Lists all the events.



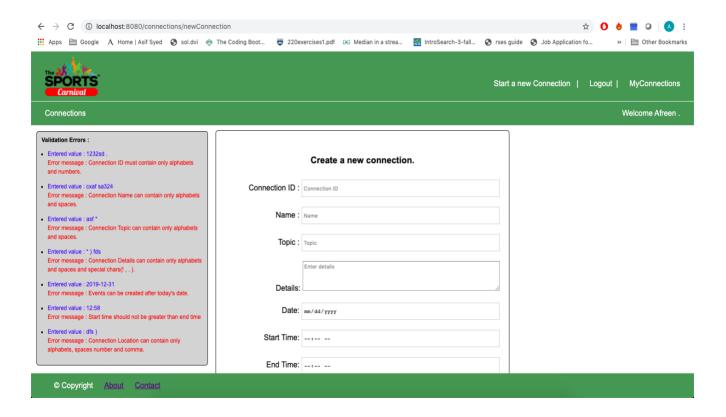
v. Connection page – Displays details of the connection selected from connections page.



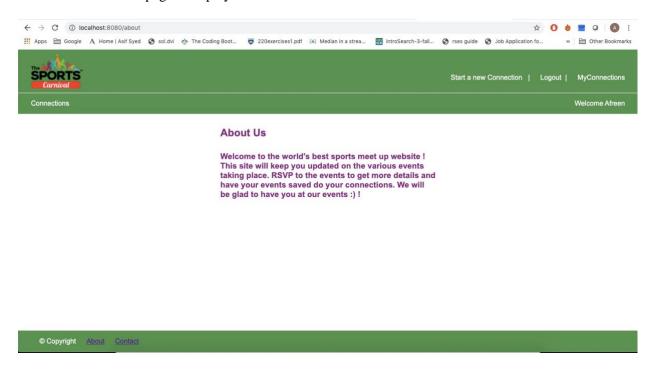
vi. Saved Connections page – On responding to an event in connection, the connection gets saved with the RSVP and is displayed on saved connections page, this page can also be accessed using view my connections link on the navigation bar.



vii. New Connection page – This page is used to create a new connection. (Validation included)



viii. About us page – Displays details about website.



Contact us page – Displays contact details. įχ.



Contact Us

For further details contact us at,

Email : a4@uncc.edu Phone : (980)123-4567 Address : University Terrace Dr, Charlotte, NC

Mongo DB screenshots:

1. Creating db and collections:

```
asif — mongo — 111×31
The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.
To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
[> show dbs
             0.000GB
Courses
admin
             0.000GB
config
             0.000GB
             0.000GB
local
             0.000GB
mycourses
mycustomers
             0.000GB
newcourse
             0.000GB
             0.000GB
> use sports-meetup
switched to db sports-meetup
sports-meetup
[> db.createCollection("users")
{ "ok" : 1 }
[> db.createCollection("connections")
{ "ok" : 1 }
[> db.createCollection("userconnections")
{ "ok" : 1 }
[> db.getCollectionNames()
[ "connections", "userconnections", "users" ]
```

Add a list of connections

```
    asif — mongo — 138×38

WriteResult({ "nRemoved" : 9 })
> db.connections.insertMany([{connectionID:'OUT101',connectionName:'Tennis',connectionTopic:'Outdoor Sports',details:'The Tennis match bei
ocation: Webb Road NC'}, {connectionID: 'OUT102', connectionName: 'Football', connectionTopic: 'Outdoor Sports', details: 'The Football match bein
g held is an inter-school match. Buy tickets at the student union football counter.',date:'02-21-20',starttime:'10:00am',endtime:'11:00am',location:'Zombie World, Raleigh, NC'},
 .... {connectionID:'OUT103',connectionName:'Basketball',connectionTopic:'Outdoor Sports',details:'The Basketball match being held is an
( inter-school match. Buy tickets at the student union basketball counter.',date:'02-22-20',starttime:'11:00am',endtime:'12:00pm',location:
'Lala Land, Greensboro, NC'},
[... ... {connectionID:'IND101',connectionName:'Chess',connectionTopic:'Indoor Sports',details:'The Chess match being held is an inter-scho
ol match. Buy tickets at the student union chess counter.',date:'02-23-20',starttime:'12:00pm',endtime:'2:00pm',location:'Page Ground, Hil
lsboro, NC'},
...... {connectionID:'IND102',connectionName:'Table Tennis',connectionTopic:'Indoor Sports',details:'The Table Tennis match being held is
 an inter-school match. Buy tickets at the student union table tennis counter.',date:'02-24-20',starttime:'1:00pm',endtime:'2:00pm',locati
on:'Webb Road NC'}.
 ter-school match. Buy tickets at the student union badminton counter.', date: '02-25-20', starttime: '2:00pm', endtime: '4:00pm', location: 'Geico
 Park, Charlotte, NC'),
... .{connectionID:'IND104',connectionName:'Carrom',connectionTopic:'Indoor Sports',details:'The carrot match being held is an inter-sc
hool match. Buy tickets at the student union carrot counter.',date:'02-26-20',starttime:'2:00pm',endtime:'3:00pm',location:'Garner Ground,
 Raleigh, NC'},
...... (connectionID: 'ABC101',connectionName: 'F1',connectionTopic: 'Racing',details: 'Racing event begins this Spring!',date: '02-27-20',starttime: '5:00pm',endtime: '6:00pm',location: 'Niner Nation, Charlotte, NC'}
... ... ])
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("5eac0c23d2aab8b0c90097d1"),
                ObjectId("5eac0c23d2aab8b0c90097d2"),
                ObjectId("5eac0c23d2aab8b0c90097d3").
                ObjectId("5eac0c23d2aab8b0c90097d4"),
                ObjectId("5eac0c23d2aab8b0c90097d5"),
                ObjectId("5eac0c23d2aab8b0c90097d6"),
                ObjectId("5eac0c23d2aab8b0c90097d7"),
                ObjectId("5eac0c23d2aab8b0c90097d8")
}
> ■
```

3. Add users.

```
asif — mongo — 153×39

> db.users.insertOne({ userID: 'AF801136632', firstName: 'Afreen', lastName:'.', email: 'ad@uncc.edu', password: 'Afreen123', address: '9551 university terrac dr', city: 'Charlotte', state: 'North Carolina', zipcode: 28262, country: 'USA' });

"acknowledged": true,
"insertOne({ userID: 'Fast123', firstName: 'Test', lastName: 'User', email: 'test123@uncc.edu', password: 'Afreen123', address: 'UNC Charlotte', state: 'North Carolina', zipcode: 28262, country: 'USA' });

(harlotte', state: 'North Carolina', zipcode: 28262, country: 'USA' });

**acknowledged": true,
"ascrtedId": 'ObjectId("Seac@c9bd2aab8b@c90097da")}

> db.users.find({}).pretty()

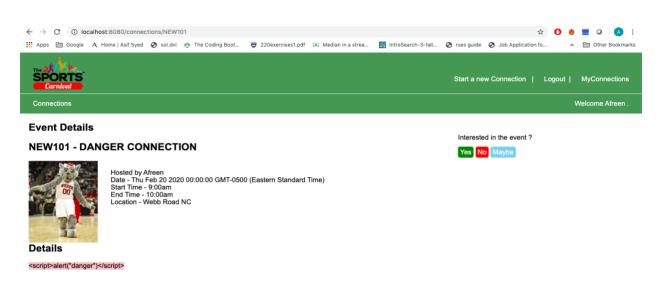
**acknowledged": 'AF801136632'',
"firstName': "AF801136632'',
"firstName': "Afreen123'',
"address": "9551 university terrace dr",
"state": "North Carolina",
"state": "Sosti university terrace dr",
"istName": "Iss'",
"email": "test123@uncc.edu",
"password": "fest123",
"address": "UNC Charlotte",
"city": "Charlotte",
"state": "North Carolina",
"s
```

Output Encoding:

Insert the following connection to database. The details property has a script. If the output is not encoded it would display the alert message. However, we see that the details is rendered as it is and not executed.

>db.connections.insertOne({connectionID:'NEW101',connectionName:'DANGER CONNECTION',connectionTopic:'DANGER TOPIC',details:'<script>alert("danger")</script>',date:'02-20-20',starttime:'9:00am',endtime:'10:00am',location:'Webb Road NC'})

Output:



Additional Features:

- 1. Sign Up page is created which is used to register a new user.
- 2. Validation is provided for signup page.

Challenges Faced:

S.no	Stopping Point	Status	Solution
1.	Checking output encoding.	Solved	Changed the <%= to <%- to see how the code is affected when a script is inserted. Verified that the application is immune to such code injections.
2.	Displaying validation errors on same page.	Solved	Passed errors and success status whenever the login, signup and new connection page is rendered and check for success=false condition.

Easy Parts:

- 1. Validating username and password.
- 2. Creating custom validations for form elements.

References:

- 1. Lecture videos.
- 2. Reviewing express-validation resources and exercise 9 practice.
- 3. Mongoose documentation.