Project Title: Game ON(Increment-3)

Team Lead: Golla Ranga Kousik

Team Members(Project Group-16):

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Story of the project and its Details:

This Application helps those Individuals who are interested in sports or fun activities like cycling but are unable to find playgrounds or players to engage. we developed a web application through which these group of people can book a playing venue or create an activity in their preferred location as per their interest so that the others like him can join him. Our primary agenda is to generate a playfield in which you can fit in with other fellow misfits.

Significance:

- This application is significant because it allows you to play when you want, where you want and how you want without any obstacles.
- Through our application one can rent their resources to others who have the group players to begin the game but not the things required to start their game
- It allows us to book any sports venue at a preferred location

Solution Approach:

Waterfall Model

- Requirements
- Design
- Implementation
- Verification
- Maintenance

Tech stack: HTML5, CSS3, JavaScript, express, mangoDB

Server: node JS, JSON-Server, Live-server

Others: Local Storage, Google Map Embedded link

Objectives:

 Develop a Web Application by embedding the below mentioned features and create a user-friendly interface with high scalability.



GENERATED A PLAYFIELD IN WHICH YOU CAN FIT IN WITH OTHER FELLOW MISFITS.



BOOK A SPORTS VENUE



JOIN OR CREATE AN ACTIVITY



FIND TRENDING ARTICLES OF YOUR CHOICE



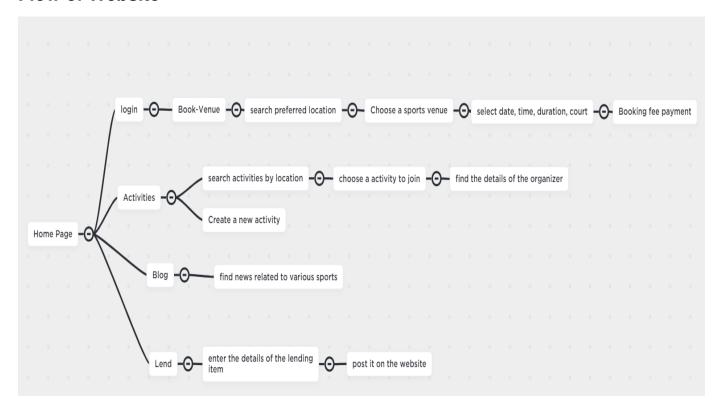
LEND ANY SPORT EQUIPMENT

Related Work:



- Meetup is a social networking site that permits you to find and join communities related to your own personal interests. However, rather than simply discussing these interests online, Meetup is utilized to arrange offline and in-person meetings in your area.
- This application allows us to create any outdoor or travel events at your preferred location but user cannot book a venue according to their preferred activity.
- Our application is mainly targeted towards the users who are interested in sports so we
 provided the booking, lending and activity features. users can also find the latest news
 about their favorite games through our blog page

Flow of Website



Previous Increment:

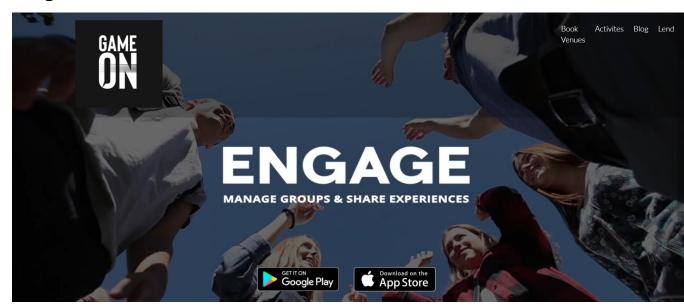
- Dependency Identification
- Performed risk analysis and developed a risk management strategy
- Assigned roles and responsibilities
- Prototype Development and creation of few wireframes
- Smoke testing of few major functionalities

Current Increment:

- Complete development of left-over screens
- End-to-end feature testing of various functionalities
- Implementation of Debouncing search feature
- Real-time news fetching with API and search news feature
- Real-time random quote generator with bodybuilding quotes API (source- Rapid API)
- Log in on any page and ability to update all the user details and ability to view orders made by the user in the profile section.
- Acquire user feedback through the contact us page by utilizing form spree.
- Email feature with nodemailer.
- Filter functionality in the product page.

- Implemented MongoDB backend for login feature
- Admin dashboard with the ability to add data and view user details
- Integrated payment gateway using razor pay api

Home Page:

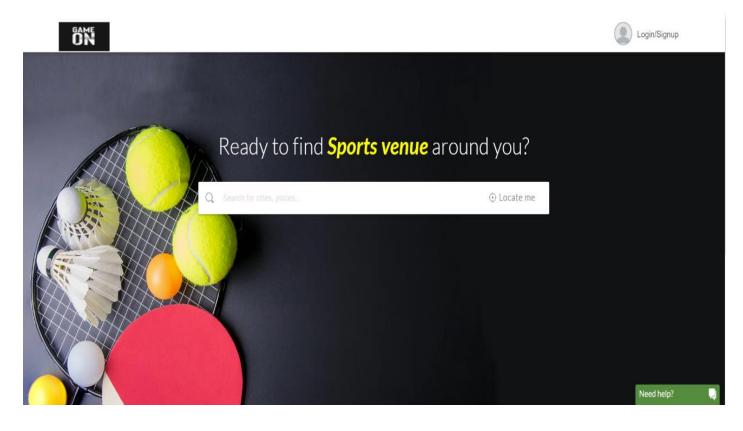


Contains website navigation menu and each element in the menu has link to its internal page

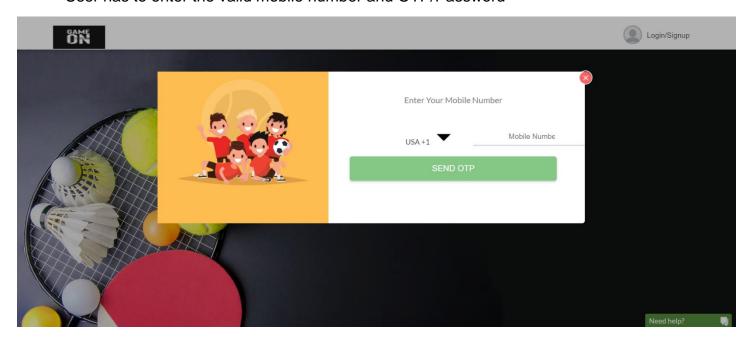
- Two optional responsive icons google play and app store are created to provide an opportunity for further development
- Every inner page contains the logo image that will redirect the user to the home page when clicked on it
- Footer: Essential support information, privacy and social media information.



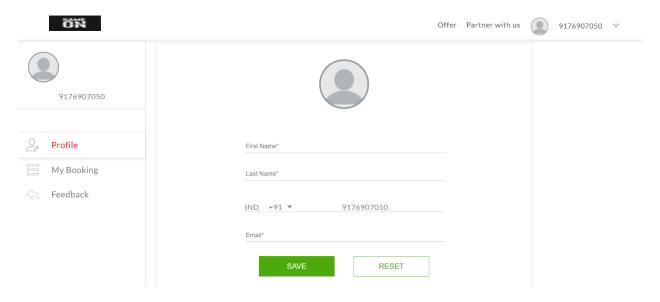
 Book-Venues: To find the nearby venues by passing the location information in search box.



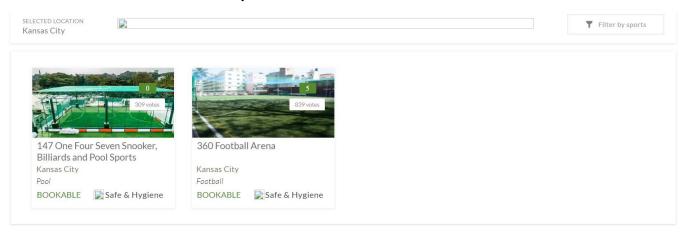
- Login popup window will be displayed when user clicks on the login/signup element
- User has to enter the valid mobile number and OTP/Password



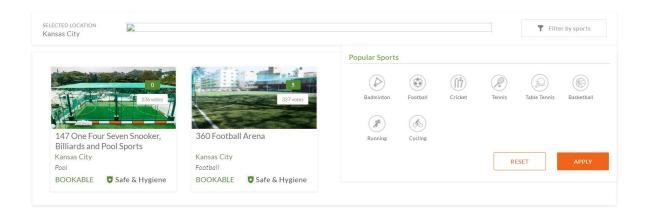
- User entered otp will be validated and user will be directed to the login profile where he can enter personal information.
- Reset option is provided to erase all the information entered.
- In my booking section user can find the information related to his bookings



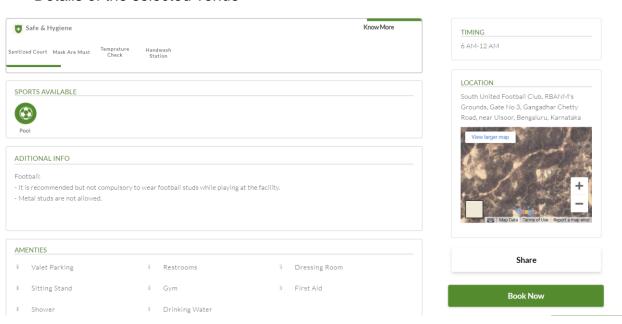
Search results for Kansas City



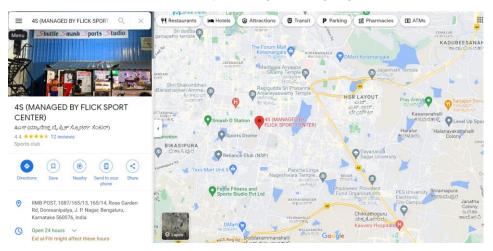
• Filter feature for search results



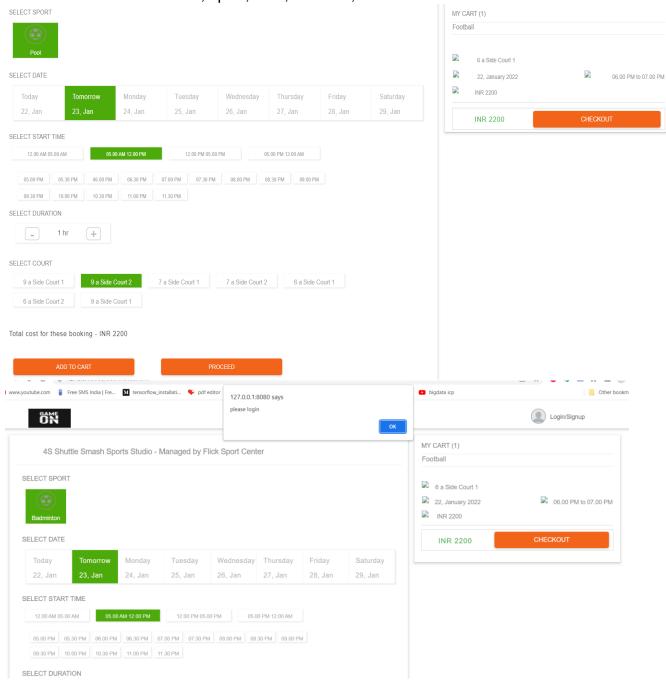
Details of the selected venue



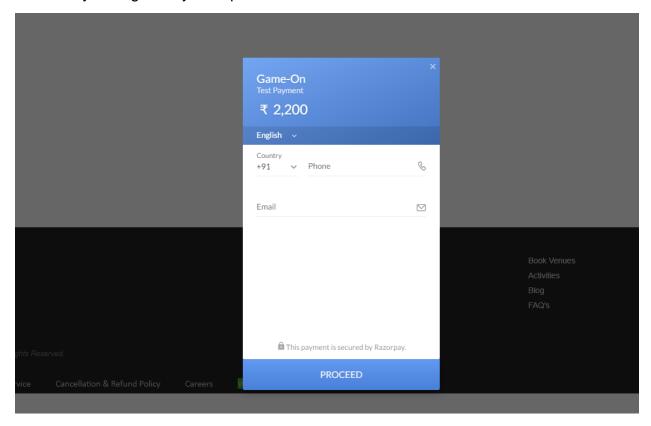
Find the location of the venue by clicking on the google maps icon



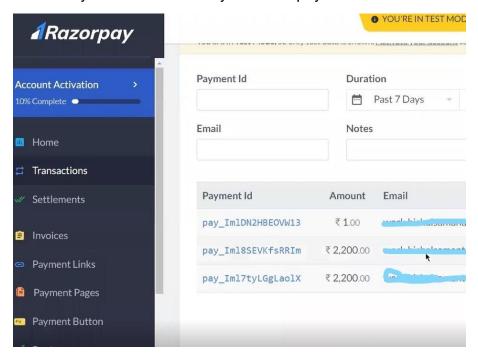
 When clicked on the book now button, User will be redirected to the below page where he has to select date, sport, time, duration, court and add it in to the cart



 An alert will be displayed when a user tries to complete the payment without logging in. Payment gateway will open when user clicks on the checkout



Payment will reflect in your razor pay account after a successful payment

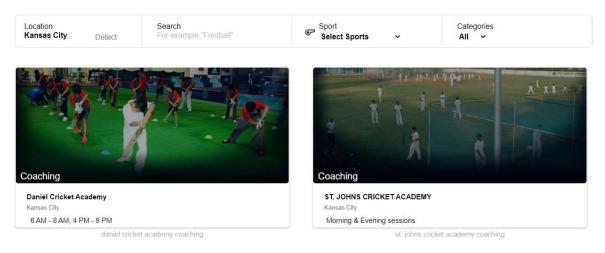


Activities page:

 Activities in the region will be displayed when user enter any city name and clicks on the detect button



Activity results for Kansas City



Click on any activity to find the contact details of the organizer



Daniel Cricket Academy

6 AM - 8 AM, 4 PM - 8 PM

Cansas City

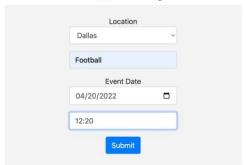
CALL

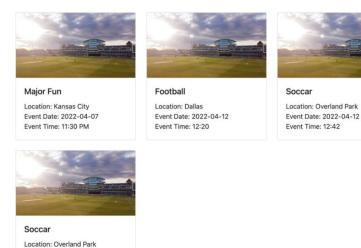
Overview

DANIEL KANAPARTHI, a Level II certified Coach from England and Wales Cricket Board (ECB, United Kingdom), is always passionate for his all time favourite dream game "CRICKET", has opted it as a career and opened his own Academy - DANIEL'S CRICKET ACADEMY in

Creating activity at a preferred location

Create Activity

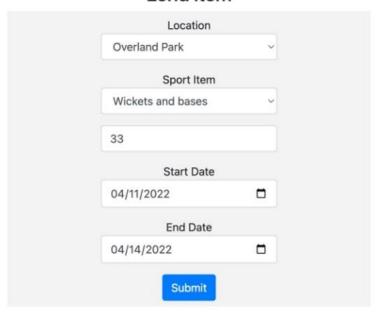


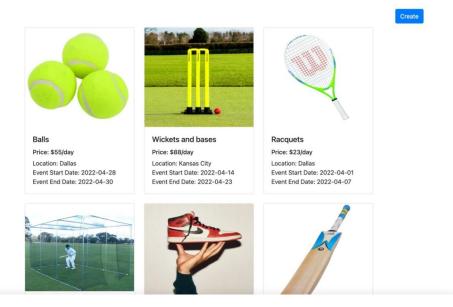


Event Date: 2022-04-12 Event Time: 12:22 Create

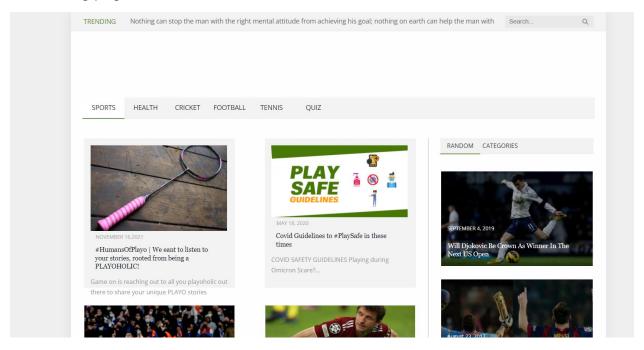
Lending feature to lend any equipment

Lend Item



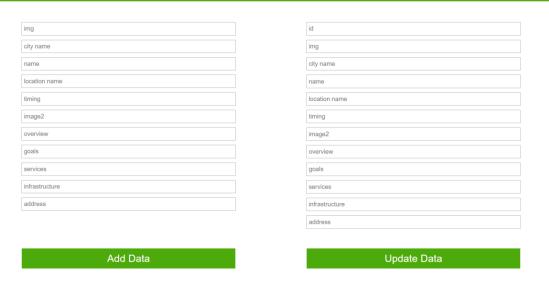


Blog page with a search feature



Admin page to add a new venue information into the venues database.

ADMIN PAGE

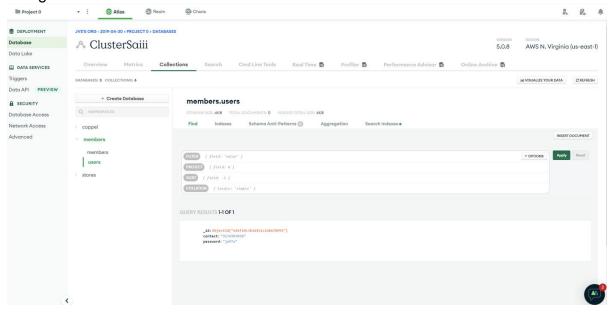


Data:

We used a local JSON files to store the data related to the venues and activities.
 We plan to replace this with TypeORM library

```
"city": "hyderabad",
"name": "Daniel Cricket Academy",
"location": "hyderabad",
"image": "images/DanielsCricketAcademycover1502371285385.png",
"timing": " 6 AM - 8 AM, 4 PM - 8 PM ",
"id": 1,
"image2": "images/DanielsCricketAcademycover1502371285385.png",
"overview": "DANIEL KANAPARTHI, a Level II certified Coach from England and Wales Cricket Board (ECB, United Kingdom)
goals": " To maintain quality coaching standards and contribute best cricket players to represent INDIA.Identifying
"services": "Coaching starts at 5:45 a.m. continues till 8:00 a.m. and in the evening starts at 4:00 p.m. continues t
"city": "hyderabad",
"name": "SVM Bowling Alley Gachibowli",
"location": "36/A, Sai Tirumala Platinum Building, Old Mumbai Hwy, Telecom Nagar Extension",
"image": "images/Bowling alley.jpg",
"timing": "All Days | 10 AM - 10 PM",
"image2": "images/Bowling alley.jpg",
"overview": "Come Play bowling at SVM Bowling Alley Gachibowli with these amazing offers for all 7 days a week !!",
"goals": "",
services": "Exclusive offers only on Game-On. From (Monday - Thursday) 10 AM - 1 PM - Rs 99/Game 1 PM - 5 PM - Rs 14"
"infrastructure": "",
"address": "",
"id": 2
```

MongoDB database:



Code Snippets:

 Javascript modules are used to display the common elements across all the inner pages

```
import type="module">
import footer from "/components/footer.js"

let container = document.querySelector("#footer");
container.innerHTML = footer();

</script>
```

 Utilized localStorage property to permit JavaScript applications to save key-value pairs in an internet browser with no expiry date.

```
import profile from "./scripts/login_profile.js";
var verticalbox2 = document.getElementById("verticalbox2");
verticalbox2.innerHTML = profile()

let n;
var mobnum = JSON.parse(localStorage.getItem("mobileNumber"))

n = document.querySelector("#mobnum").textContent = mobnum;
document.querySelector("#mob").textContent = mobnum;
document.querySelector("#pp3").textContent = mobnum;
```

 Data Related to the venues are stored in JSON format. filtered the user searched venue from the venues database using the Regex expression

```
let response = await fetch("bookvenue.json");
let data = await response.json();
//console.log(data);

//Writing Function for filter data based on search results

let filterData = data.filter((el) => {
    let regex = new RegExp(`^${search_value}`, "gi");
    return el.location.match(regex) || el.name.match(regex);
})
```

debounce function defers the handling of the keyup event until the user has stopped typing for a considerable amount of time. This prevents our UI code from expecting to deal with each event and furthermore drastically decreases the number of API calls sent off our server.

```
function debouncingFunction(fetchFunction, delay) {
    if (inputTag.value.length == 0) {
        document.querySelector("#show-results-div").style.visibility = 'hidden'
    }
    if (id) {
        clearTimeout(id);
    }
    id = setTimeout(() => {
            fetchFunction()
        }, delay)
}
```

API calls to fetch news

```
//Api work ==>
let apiKey_blog = "b140754e118c4b63a8e580772d4446a1";
let bloglink = `https://newsapi.org/v2/top-headlines?country=in&category=sports&pageSize=10&apiKey=${apiKey_blog}`;
let response = apiCall(bloglink);
response.then((res)=>{
    console.log(res.articles);
    let appendlocation = document.querySelector(".dynamic-news");
    appendNews(res.articles, appendlocation);
})
.catch((e)=>{
    console.log(e);
})
fetchNews()
```

Checkout functionality with razor pay

```
var options = {
    "key": "rzp_test_vUKRcpG1a37CW2", // Enter the Key ID generated from the Das
    "amount": price, // Amount is in currency subunits. Default currency is INR.
    "currency": "INR",
    "name": "Game-On",
    "description": "Test Payment",
    "image": "",
    // "order_id": "order_Ef80WJDPBmAeNt", //Pass the `id` obtained in the previ
    // "account_id": "acc_Ef7ArAsdU5t0XL",
    "handler": function (response) {
        alert(response.razorpay_payment_id);
        alert(response.razorpay_order_id);
        alert(response.razorpay_signature)
    }
};
var rzp1 = new Razorpay(options);
document.getElementById('rzp-button1').onclick = function (e) {
        rzp1.open();
        e.preventDefault();
}
cript>
```

server configuration

```
const PORT = 5000
const path = require('path')
const jsonServer = require('json-server')
const server = jsonServer.create()
const router = jsonServer.router(path.join(__dirname, 'data.json'))
const middlewares = jsonServer.defaults()
server.use(middlewares)
server.use(jsonServer.bodyParser)
server.use('/playo', router)
server.listen(PORT, () => console.log(`JSON Server is running on port ${PORT}`))
```

```
const express = require("express");
const mongoose = require("mongoose");
const users = require("./scripts/loginRoutes");
const bodyParser = require("body-parser");
const corsOptions = {
    credentials: true,
    optionSuccessStatus: 200,
app.use(bodyParser.urlencoded({ extended: false }));
app.use(bodyParser.json());
const db = "mongodb+srv://saiii:jvs<3gag@clustersaiii-iacxx.mongodb.net/members?retryWrites=true"</pre>
    .connect(db, { useNewUrlParser: true })
    .then(() => console.log("Mongodb connected successfully"))
app.use("/api/users", users);
const host = "0.0.0.0";
const port = 5002;
console.log("deployed on the port: " + port);
app.listen(port, () => console.log(`server is running on port ${port}`));
```

Filtering method to filter the search based on the selected type of sport

```
//Main Function for filter
function filterFunction(value, div, text){
    console.log(value);
    let filter_array = data.filter((el) => {
        let array_value = el.filter_by[0];
        //console.log(array_value)
        if(array_value == value) {
            return el;
        }
    })

    if(filter_array == undefined || filter_array == [] || filter_array.length == 0) {
        document.querySelector(".filterbox").style.visibility = "hidden";
        div.style.border = "2px solid transparent";
        text.style.color = "black";
        let myData = [];
        displayUi(myData)
        return
    }

    console.log(filter_array)
    document.querySelector(".filterbox").style.visibility = "hidden";
        div.style.border = "2px solid transparent";
        text.style.color = "black";
}
```

Function to fetch venue details based on location

Activity creation and storing it in the Json file

 User feedback is received with Formspree feature. It is a backend form, API and email administration for HTML structures. It is the simplest way to add custom contact us forms to your website

 Plus and Minus functions to calculate the amount to be paid based on the chosen hours

```
var count = 1;
var costvalue;
function plus() {
    count++;
    if (count > 5) {
        alert('Ne Dont Offer More than 5 hrs");
        return false;
    }

    let plus = document.getElementById("plus");
    plus.style.backgroundcolor = "m4daaob";
    plus.style.backgroundcolor = "m4daaob";
    plus.style.color = "white";
    let minus = document.getElementById("minus");
    minus.style.backgroundcolor = "white";
    minus.style.color = "grey"

    let updatedvalue = document.getElementById("timevalue");
    updatedvalue.innerHTML = count + " " + "hr";
    costvalue = count * 22;
    cost.innerHTML = "Total cost for these booking - INR" + " " + costvalue;
    return costvalue;
}
```

```
function minus(costvalue) {
    if (count == 1) {
        return false
    }
    cont--;
    costvalue = 22 * count;
    let minus = document.getElementById("minus");
    minus.style.backgroundColor = "#4daaob";
    minus.style.color = "white";
    let plus = document.getElementById("plus");
    plus.style.backgroundColor = "white";
    plus.style.color = "grey";
    let updatedvalue = document.getElementById("timevalue");
    updatedvalue.innerHTML = count + " " + "hr";
    cost.innerHTML = "Total cost for these booking - INR" + " " + costvalue;
    // Let presentValue = costvalue;
}

// below functions for changing the bg color and color of court names
var cost = document.getElementById("cost");
```

UserSchema:

```
const mongoose = require('mongoose');
const Schema = mongoose.Schema;

const UserSchema = new Schema({
    name: {
        type: String
    },
    contact: {
        type: String,
        required: true
    },
    password: {
        type: String,
        required: true
    },
    avatar: {
        type: String
    },
    date: {
        type: Date,
        default: Date.now
    }
});

module.exports = User = mongoose.model('users', UserSchema);
```

define routing using methods of the Express app object that correspond to HTTP method

```
const express = require("express");
const router = express.Router();
const User = require("./User");

router.post("/login", (req, res) => {
    const email = req.body.email;
    const password = req.body.password;
    User.findOne({ contact }).then(user => {
        //user check
        if (!user) {
            errors.contact = "User not found";
            return res.status(404).json(errors);
        }

        //user match
        const payload = { id: user.id, contact: user.contact }; // jwt payload
        console.log("payload", payload);
        return res;
    });

});

//register.user
```

```
router.post("/register", (req, res) => {
    const { errors, isValid } = validateRegisterInput(req.body);
//validation check
    if (!isValid) {
        return res.status(400).json(errors);
}
User.findOne({ email: req.body.email }).then(user => {
        if (user) {
            errors.email = "Email already exists...";
            return res, status(400).json(errors);
        } else {
            const newUser = new User({
                name: req.body.name,
                email: req.body.email,
                password: req.body.password
        });
        if (err) throw err;
        newUser
            .save()
            .then(user => res.json(user))
            .catch(err => console.log(err));
}
});
});
```

Work Sharing/Module Sharing:

Golla Ranga Kousik/ Nagula Ajay Kumar – End to end Implementation of Book venues, Activities, Blog modules

Srinivas/Manisha - Implementation and integration of Lend module and create Activity features

GitHub Link:

https://github.com/gollakousik123/WebMobile-2022

Presentation link:

https://github.com/gollakousik123/WebMobile-2022/tree/main/PPT

Video Link:

https://github.com/gollakousik123/WebMobile-2022/tree/main/Video

References:

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- 9. https://www.meetup.com/
- 10. https://expressjs.com/en/guide/routing.html