A PROJECT REPORT ON

Social Media / Chatroom Web Application

DESIGNED AND DEVELOPED BY

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UNDER THE GUIDANCE OF:

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UNIVERSITY OF MUMBAI

A.V.COLLEGE OF ARTS,

K.M.COLLEGE OF COMMERCE AND

E.S.A.COLLEGE OF SCIENCE,

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MAHARASHTRA-401202

ACKNOWLEDGEMENT

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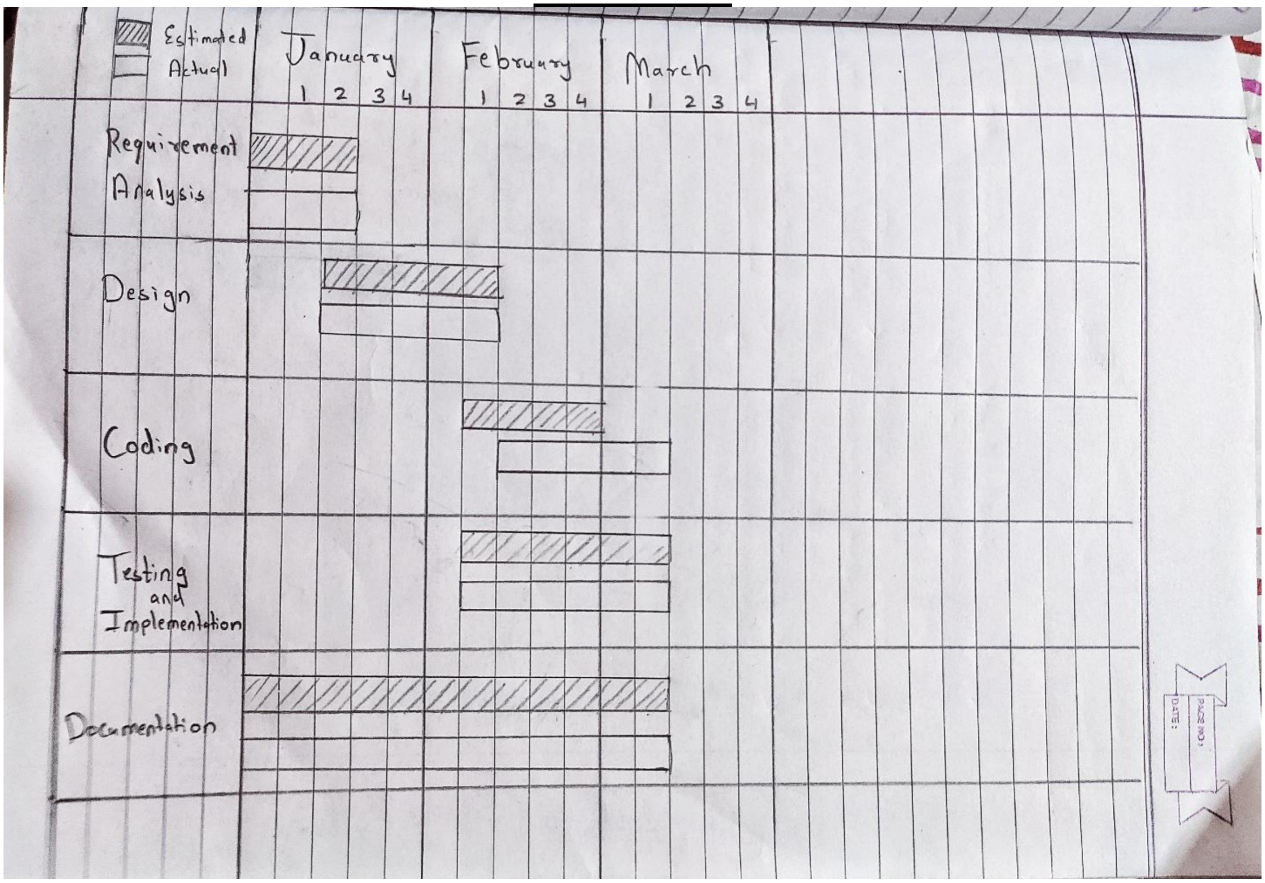
Gantt Chart


▨ Estimated
□ Actual
January
1 2 3 4
February
1 2 3 4
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Requirement Analysis
Design
Coding
Testing and Implementation
Documentation
PAGE NO.:
DATE :

Introduction (Synopsis)

- Social Media with chatroom web app is developed for people to connect to each other even after living in far away remote areas.
- This web app will provide facility to user to login signup and then login using his credentials and then he/she can make posts consisting of pictures and comment on other people's posts
- Clients will also be able to join Interest based chatrooms where he can chat and communicate with people having same interest as his.
- Clients can perform these functions
    1. Add a new Post
    2. View posts and comments
    3. Maintain his posts
    4. Add like to his and other's posts.
    5. Add comments to his and other's posts
    6. Maintain comments made by him on posts.
    7. Enter an interest based chatroom with a Nickname
    8. Chat with others having same interests while staying anonymous.

Limitations of proposed system

- Internet Connection is required
- Person to person chat feature is not available

Advantages of Proposed System.

- all data will be stored on secure encrypted cloud mongodb database.
- You can login into your account from Multiple devices as long as you remember your credentials.
- The website will be responsive for mobile phone displays.
- Your Data will be confidential(no one can access it except you),Integral(No modification of data by anyone else can ever occur),Available(data will always be available)

Feasibility Study

A feasibility study is an important phase in which we decide whether or not the proposed system is worthwhile. It tells whether the idea is useful or not. It may be possible the project is not feasible maybe because of high costs or high resources hence it may not prove to be profitable.

- **Technical feasibility:**

This analysis helps to determine whether the technical team is capable of converting the ideas into working systems. Technical feasibility also includes information on technical requirements of the proposed system.

Social Media / Chatroom (YouBook) is a Web Application. The technologies and tools used are as follows:

- Node JS
- Express
- Bootstrap
- MongoDB
- EJS
- Socket.IO
- Multer
- Particle Js
- Passport Js

Each of these technology are freely available. By using these technologies time limitations of development and ease of implementation are synchronized. The project is feasible within limits of current technology.It does not require extra Programmer,Tester, and developers only one person is enough to maintain this project for future modifification and updates.New features can be added,Ui can be improved as required by Users.Web App can be used at Localhost, but It can also be hosted on Heroku which a is free hosting website.Hence, we can Conclude that the web app is technically feasible.

- **Economical Feasibility:**

This analysis includes a Financial aspect analysis of the project. It helps to determine the cost before allocating the budget. It also helps to improve the project credibility as decision-makers determine the positive economic benefits that the proposed project will provide.

System is cost Effective,Web application can be hosted on free hosting site and it also uses Free mongodb cloud Database.The developer can earn good amount of money by sponsors

- **Organizational Feasibility:**

The main aim is to setup a globally accessible web application where users can chat on their Interests with lots of people and also to share life moments with public. The technological tools or software that are used are freely and easily available and can be easily used. To create this project, I have learned the Bootstrap for creating a better-looking Interfaces, and the Frameworks like Express Js to handle request and responses and multer for Image uploads as well as socket.io for socket connections all these helps the organizations to develop the better and successful software.

- **Cultural Feasibility**

Implementation of this Web Application will bring changes in all the activities. People will be able to connect with other people based on their interests.As now internet reaches each and every corner of the world which will allow almost every user of any age having access to this application

Requirement Specifications

Hardware requirements

- a computer with an internet connection.
- any processor.
- enough ram to run web browser 2gb and above.

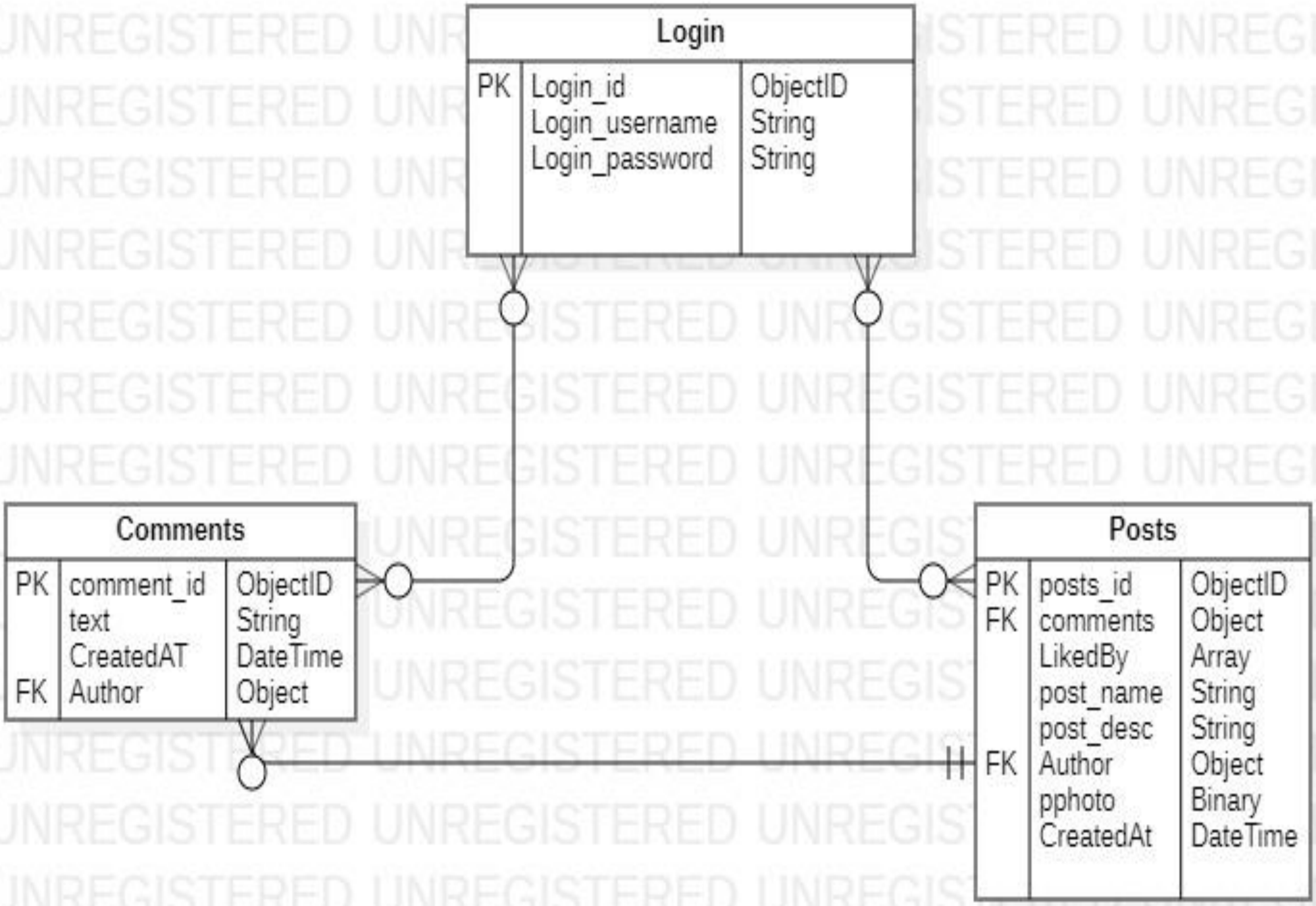
Software Requirements.

- **Technology:** Node Js, Express framework, Passport Js, MongoDB, Mongoose, Multer JS,Socket.IO,Particle JS, Bootstrap and EJS.
- **OS:** Windows xp,8 or 10, MacOS, Linux, Android, IOS.

A. Event Table

SR. No	Events	Trigger	Source	Activity	Response	Destination
1	Client Register	Client register request	User	Client gets registered in the system	Client gets logged in and newsfeed appears	System
2	Client Login	Client Login request	User	Client gets logged in the system	Client gets logged in and newsfeed appears	System
3	Add new Post	New post request	User	Client posts a new post	Client redirects to newsfeed where he can see his post	System
4	Maintain post	maintain post request	User	Client update,delete his post	Client redirects to newsfeed	System
5	View post	View post request	User	Client clicks on more info on posts	Client redirects to home/postid	System
6	Add new comment	New Comment request	User	Client comments on a post	Client redirects to home/postid	System
7	Maintain comments	Maintain comment request	User	Client update,delete his comment	Client redirects to home/postid	System
8	Add new Like	Like post request	User	Client adds a like to a specific post	Client redirects to home/postid	System
9	Join chatroom	Chatroom join request	User	Client clicks on join Chat	Client redirected to chatroom based on his interest	System
10	Send message	Message send request	User	Client sends text message in chatroom	chat message is received by other users in chatroom and is displayed on the page	System
11	Leave chatroom	Chatroom leave request	User	Client clicks on Leave Room	Client ends socket connection and is redirected to newsfeed	System
12	Logout	Client logout request	User	Client clicks on Logout	Client is logged out and is redirected to the landing page	System

B. E-R Diagram

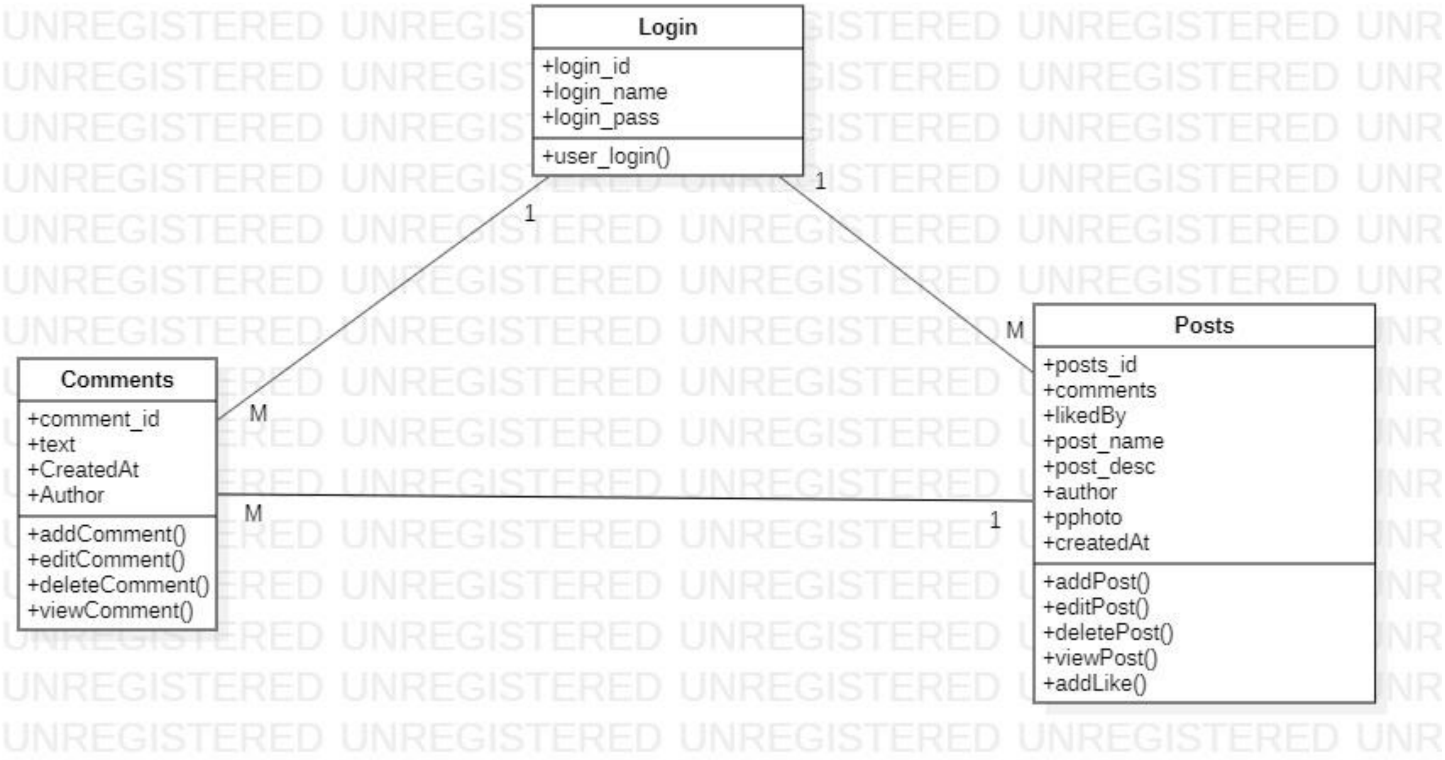


Login		
PK	Login_id	ObjectID
	Login_username	String
	Login_password	String

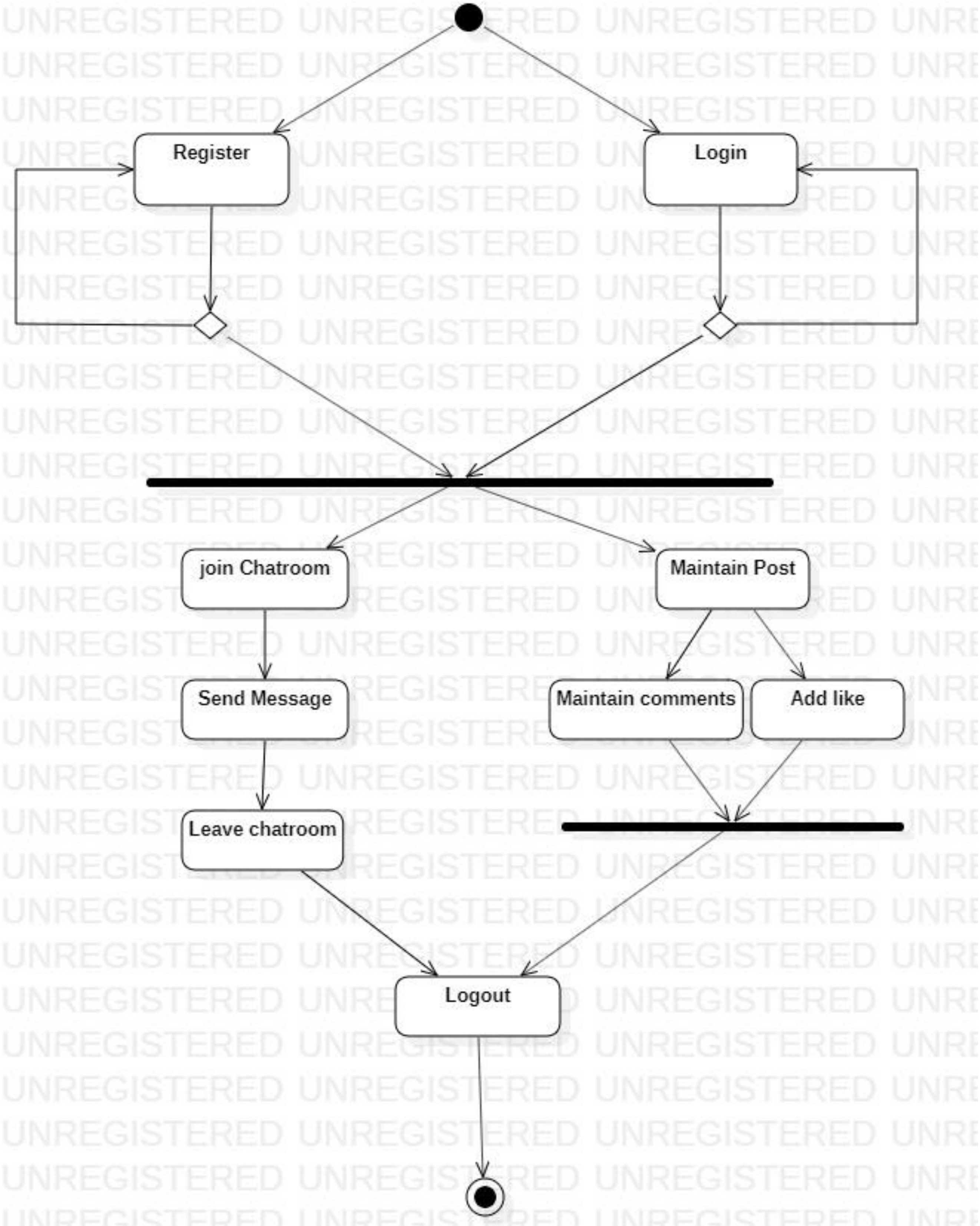
Comments		
PK	comment_id	ObjectID
	text	String
	CreatedAT	DateTime
FK	Author	Object

Posts		
PK	posts_id	ObjectID
FK	comments	Object
	LikedBy	Array
	post_name	String
	post_desc	String
FK	Author	Object
	pphoto	Binary
	CreatedAt	DateTime

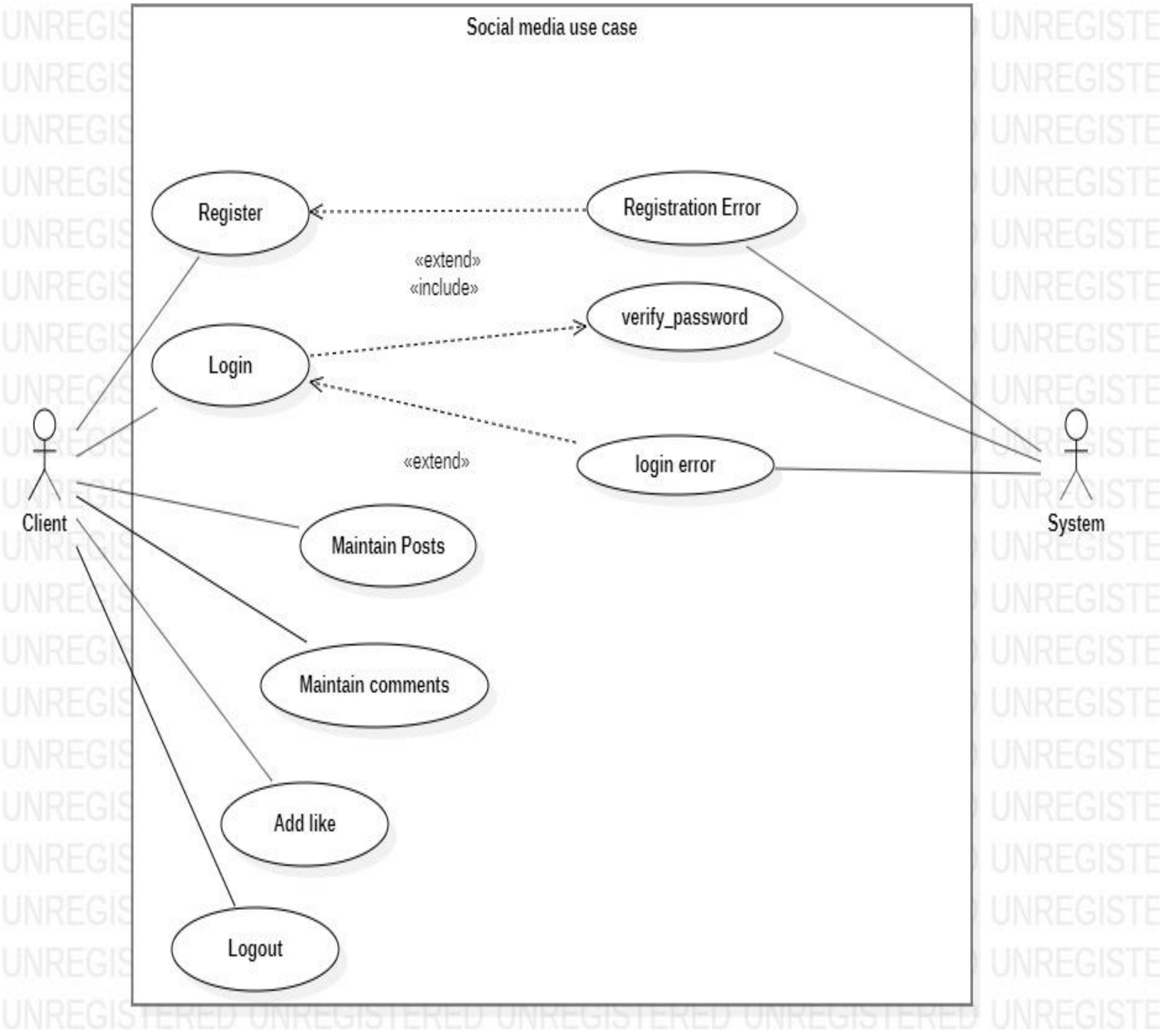
C. CLASS DIAGRAM

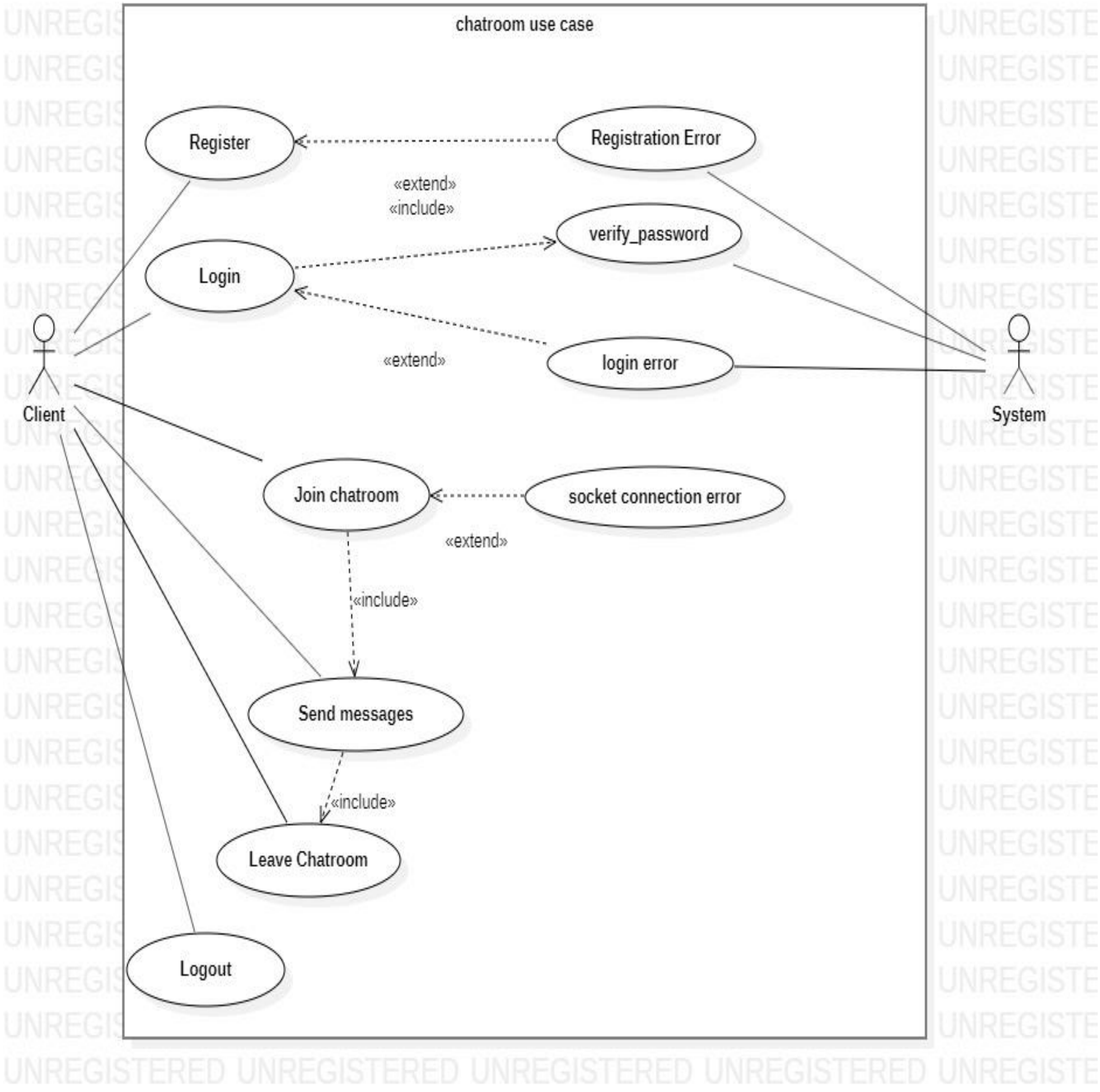


D. Activity Diagram

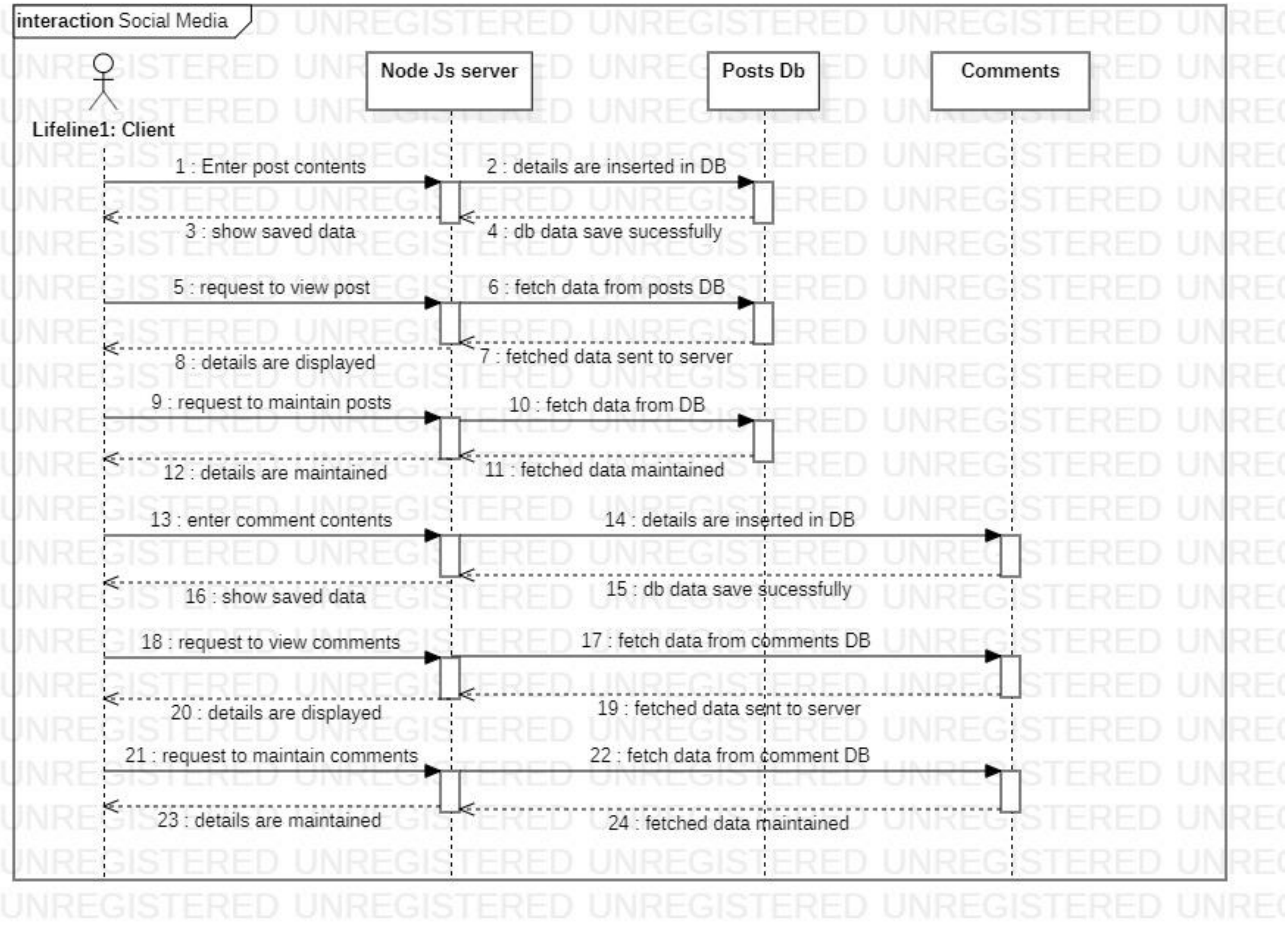


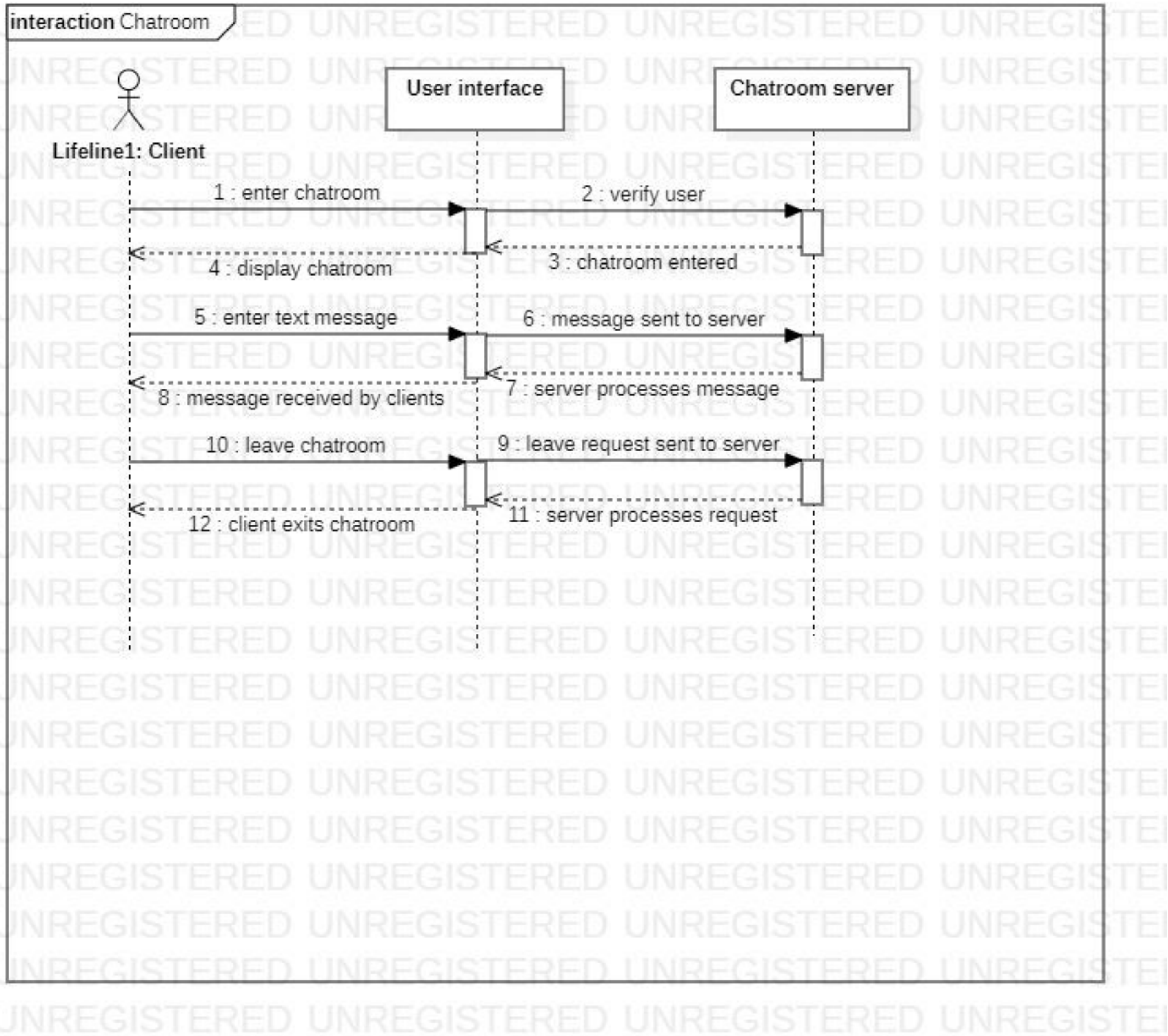
E. Use Case Diagrams



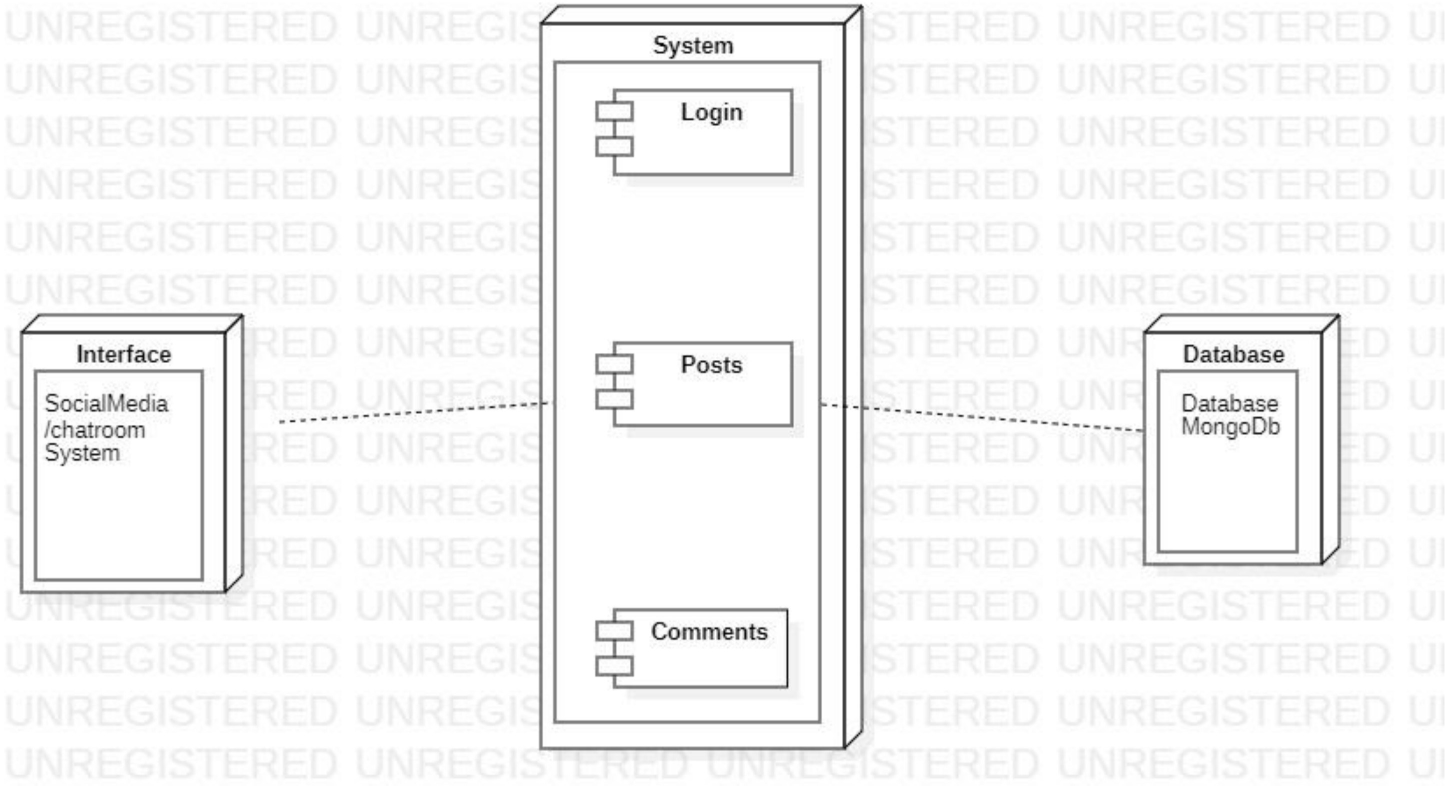

chatroom use case
Register
Registration Error
«extend»
«include»
verify_password
Login
login error
«extend»
Client
System
Join chatroom
socket connection error
«extend»
«include»
Send messages
«include»
Leave Chatroom
Logout

F. Sequence Diagrams


interaction Social Media
Lifeline1: Client
Node Js server
Posts Db
Comments
1 : Enter post contents
2 : details are inserted in DB
3 : show saved data
4 : db data save sucessfully
5 : request to view post
6 : fetch data from posts DB
7 : fetched data sent to server
8 : details are displayed
9 : request to maintain posts
10 : fetch data from DB
11 : fetched data maintained
12 : details are maintained
13 : enter comment contents
14 : details are inserted in DB
15 : db data save sucessfully
16 : show saved data
17 : fetch data from comments DB
18 : request to view comments
19 : fetched data sent to server
20 : details are displayed
21 : request to maintain comments
22 : fetch data from comment DB
23 : details are maintained
24 : fetched data maintained


interaction Chatroom
Lifeline1: Client
User interface
Chatroom server
1 : enter chatroom
2 : verify user
3 : chatroom entered
4 : display chatroom
5 : enter text message
6 : message sent to server
7 : server processes message
8 : message received by clients
9 : leave request sent to server
10 : leave chatroom
11 : server processes request
12 : client exits chatroom

G. Deployment Diagram



H. Database Designs

Login Table:

Attributes	**Datatypes**	**Constraints**	**Description**
Login_id	ObjectID	Primary key, Not Null	Id assigned by MongoDB
Login_Username	STRING	Not Null	Username
Login_Password	STRING	Not Null	Hashed user Password

Posts Table:

Attributes	**Datatypes**	**Constraints**	**Description**
Posts_id	ObjectID	Primary key, Not Null	Id assigned by MongoDB
comments	Object	Not Null,Foreign Key	Object which has ids of comments made
likedBy	Array	unique	Array of users who have liked the post
Post_name	String	Not Null	Name of the post
Post desc	String	Not Null	Description of post
Author	Object	Not Null,Foreign Key	Object which has data of Author of post
pphoto	Binary	Not Null	Image file is stored
createdAt	DateTime	NotNull	Date and time at which post was made

comments Table:

Attributes	**Datatypes**	**Constraints**	**Description**
Comments_id	ObjectID	Primary Key, Not Null	Id assigned by MongoDB
text	String	Not Null	Text of comment being made
createdAt	DateTime	Not Null	Date and time at which comment was made
Author	Object	Not Null,Foreign key	Object which has data of Author of comment

System Implementation (Code)

- **/app.js**

```
//Requiring packages

var express = require("express");

var multer  = require("multer")

var app= express();

var bodyParser=require("body-parser");

var mongoose=require("mongoose");

var flash=require("connect-flash");

var passport=require("passport");

var LocalStrategy=require("passport-local");

var methodOverride=require("method-override");

//requiring Middleware

var middleware=require("./middleware");

var User    =require("./models/user");

//Requiring routes

var commentRoutes =require("./routes/comments");

var postRoutes=require("./routes/home");

var indexRoutes=require("./routes/index");

//seting up env file

require('dotenv').config();

//Setting up static folder

app.use(express.static(__dirname + "/public"))

//setting up method override module and flash module

app.use(methodOverride("_method"));

app.use(flash());
```

```
//MongoDb configuration
mongoose.set('useNewUrlParser', true);
mongoose.set('useUnifiedTopology', true);
mongoose.connect(process.env.CloudDB,function(err) {
        if(err)
        {
                //if connection fails
                console.log(err);
        }
        else
        {
                console.log("we are connected to Database "+process.env.CloudDB);
        }
});
//setting up bodyparser
app.use(bodyParser.urlencoded({extended:true}));
//setting up view engine
app.set("view engine","ejs");
//passport configuration
app.use(require("express-session")({
        secret:process.env.SESSION_KEY,
        resave: false,
        saveUninitialized:false
}));
app.locals.moment = require('moment');
app.use(passport.initialize());
app.use(passport.session());
passport.use(new LocalStrategy(User.authenticate()));
passport.serializeUser(User.serializeUser());
passport.deserializeUser(User.deserializeUser());
app.use(function(req,res,next) {
        res.locals.currentUser=req.user;
        res.locals.error=req.flash("error");
        res.locals.success=req.flash("success");
        next();
});
//using routes
app.use(indexRoutes);
app.use(postRoutes);
app.use(commentRoutes);
//socket connections
const path = require('path');
const formatMessage = require('./utils/messages');
const {
  userJoin,
  getCurrentUser,
  userLeave,
  getRoomUsers
} = require('./utils/users');
const http = require('http').createServer(app);
const io =require('socket.io')(http);
//route when user clicks on Enter chatroom button on navbar
app.get('/joinChat',middleware.isLoggedIn,function (req, res) {
        res.sendFile(__dirname + '/public/room.html');
  });
```

```
//botname
  const botName = 'Youbook Bot';
// Run when client connects
io.on('connection', socket => {
  socket.on('joinRoom', ({ username, room }) => {
    const user = userJoin(socket.id, username, room);
    console.log(user);
    socket.join(user.room.toLowerCase());
    // Welcome current user
    socket.emit('message', formatMessage(botName, 'Welcome to YouBook Chatrooms!'));
    // Broadcast when a user connects
    socket.broadcast
      .to(user.room.toLowerCase())
      .emit(
        'message',
        formatMessage(botName, `${user.username} has joined the chat`)
      );
    // Send users and room info
    io.to(user.room.toLowerCase()).emit('roomUsers', {
      room: user.room.toLowerCase(),
      users: getRoomUsers(user.room.toLowerCase())
    });
  });
  // Listen for chatMessage
  socket.on('chatMessage', msg => {
    const user = getCurrentUser(socket.id);
    io.to(user.room.toLowerCase()).emit('message', formatMessage(user.username, msg));
  });
  // Runs when client disconnects
  socket.on('disconnect', () => {
    const user = userLeave(socket.id);
    if (user) {
      io.to(user.room.toLowerCase()).emit(
        'message',
        formatMessage(botName, `${user.username} has left the chat`)
      );
      // Send users and room info
      io.to(user.room.toLowerCase()).emit('roomUsers', {
        room: user.room.toLowerCase(),
        users: getRoomUsers(user.room)
      });
    }
  });
});
app.get('/api/user_data', function(req, res) {
  if (req.user === undefined) {
      // The user is not logged in
      res.json({});
  } else {
      res.json({
          userr: req.user
      });
  }
});
```

```
//server listener

http.listen(process.env.PORT || 3000, function() {

        var host = http.address().address

        var port = http.address().port

        console.log('YouBook WebApp listening at http://localhost:'+port)

  });
```

- **/middleware/index.js**

```
//all middleware
var Posts=require("../models/posts");
var Comment =require("../models/comment");
const e = require("express");
var middlewareObj={}
//check post ownership
middlewareObj.checkPostOwnership = function(req,res,next) {
    if(req.isAuthenticated()){
        Posts.findById(req.params.id,function(err,foundCampground) {
        if(err)
        {
            req.flash("error","campground not found");
            res.redirect("back");
        }
        else
        {
            //does user own it
            if(foundCampground.author.id.equals(req.user._id))
            {
                next();
            }
            else
            {
                req.flash("error","you dnt have permission to do that");
                res.redirect("back")
            }
        }
    });
    }
    else
    {
        req.flash("error","you need to be logged in to do that");
        res.redirect("back");
    }
};
middlewareObj.checkCommentOwnership = function(req,res,next) {
    // body...
    if(req.isAuthenticated()){
        Comment.findById(req.params.comments_id,function(err,foundComment) {
```

```
      if(err)
      {
          res.redirect("back");
      }
      else
      {
          //does user own it
          if(foundComment.author.id.equals(req.user._id))
          {
              next();
          }
          else
          {
              req.flash("error","no permission to do that");
              res.redirect("back")
          }
      }
  });
  }
  else
  {
      req.flash("error","you need to be logged in to do that");
      res.redirect("back");
  }
};
middlewareObj.isLoggedIn=function(req,res,next){
  if(req.isAuthenticated()){
      return next();
  }
  req.flash("error","you need to be logged in 1st");
  res.redirect("/login");
};
middlewareObj.isNotLoggedIn=function(req,res,next)
{
  if(req.isAuthenticated())
  {
      res.redirect('/home');
  }
  else
  {
      return next();
  }
}
module.exports=middlewareObj;
```

- **/models/users.js**

```
var mongoose = require("mongoose");
var passportLocalMongoose = require("passport-local-mongoose");
var UserSchema=mongoose.Schema({
        username:String,
        password:String
});
UserSchema.plugin(passportLocalMongoose);
module.exports=mongoose.model("User",UserSchema);
```

- **/models/posts.js**

```
var mongoose = require("mongoose");
var PostSchema = new mongoose.Schema({
  name: String,
  image: String,
  pphoto: {type: String},
  description: String,
  createdAt:{type:Date,default:Date.now},
  author:{
        id:{
                type: mongoose.Schema.Types.ObjectId,
      ref: "User"
        },
        username:String
  },
  comments: [
    {
      type: mongoose.Schema.Types.ObjectId,
      ref: "Comment"
    }
  ],
  likedby:[String]
});
module.exports = mongoose.model("Post", PostSchema);
```

- **/models/comment.js**

```
var mongoose= require("mongoose");
var commentSchema=mongoose.Schema({
        text:String,
        createdAt:{type:Date,default:Date.now},
        author:{
                id:{
                        type:mongoose.Schema.Types.ObjectId,
                        ref:"User"
                },
                username:String
        }
});
module.exports=mongoose.model("Comment",commentSchema);
```

- **/routes/index.js**

```
//requiring express and passportjs
var express=require("express");
var router= express.Router();
var passport=require("passport");
//requiring user model from mongodb
var User    =require("../models/user");
//requiring middleware file
var middleware=require("../middleware");
//landing page
router.get("/",function(req,res) {
        // body...
        res.render("landing.ejs");
});
//show register form
router.get("/register",middleware.isNotLoggedIn,function(req,res) {
        res.render("register");
        // body...
});
//handle signup logic
router.post("/register",function(req,res) {
        var newUser = new User({username:req.body.username});
         User.register(newUser,req.body.password,function(err,user) {
                // body...
                if(err)
                {
                        return res.render("register", {"error": err.message});
                }
                passport.authenticate("local")(req,res,function() {
                        // body...
                        req.flash("success","Welcome to Youbook "+user.username);
                   res.redirect("/home");
                });
        });
});
//show login form
router.get("/login",middleware.isNotLoggedIn,function(req,res) {
        // body...
        res.render("login");
});
//handling login logic
router.post("/login",passport.authenticate("local",
        {
                successRedirect:"/home",
                failureRedirect:"/login",
                failureFlash: true
         }),function(req,res) {
});
//logout route
router.get("/logout",function(req,res) {
        req.logout();
        req.flash("success","Logged you out");
        res.redirect("/");
});
module.exports=router;
```

- **/routes/home.js**

```
//requiring express and multer
var express=require("express");
var router= express.Router();
var multer=require("multer");
//requiring posts model from mongodb
var Posts=require("../models/posts");
//requiring middleware file
var middleware=require("../middleware");
//multer configuration
var multerStorage = multer.diskStorage({
        destination: (req,file,cb)=>{
                cb(null, 'public/img/users')
        },
        filename:(req,file,cb)=>{
                //user-id-currenttime.jpeg
                var ext=file.mimetype.split('/')[1];
                cb(null,'user-'+req.user._id+'-'+Date.now()+'.'+ext)
        }
});
var multerFilter =(req,file,cb)=>
{
        if(file.mimetype.startsWith('image'))
        {
                cb(null,true)
        }
        else
        {
                cb("its not image",false)
        }
}
var upload = multer({
        storage: multerStorage,
        fileFilter: multerFilter
});
var uploadUserPhoto=upload.single('photo');
//get all the posts
router.get("/home",middleware.isLoggedIn,function(req,res) {
        Posts.find({},function(err,allposts) {
                if(err)
                {
                        console.log(err);
                }
                else
                {
                        res.render("posts/index.ejs",{posts:allposts,currentUser:req.user});
                }
```

```
    })
})
//make a content post request
router.post("/home",uploadUserPhoto,middleware.isLoggedIn,function(req,res) {
    //retrieve data from the ejs form
    var name=req.body.name;
    var desc=req.body.description;
    var author={
        id:req.user._id,
        username:req.user.username
    };
    var pphoto='http://localhost:3000/img/users/'+req.file.filename;
    var newPost={name:name,description:desc,author:author,pphoto:pphoto};
    //create a new document
    Posts.create(newPost,function(err,newlyCreated) {
        if(err)
        {
            console.log(err);
        }
        else
        {
            res.redirect("/home");
        }
    })
})
//get new post form
router.get("/home/new",middleware.isLoggedIn,function (req,res) {
    res.render("posts/new.ejs");
})
//get the post by ID
router.get("/home/:id",function(req,res) {
    //find the post details from post models and populate it with comments
    Posts.findById(req.params.id).populate("comments").exec(function(err,foundPost) {
        if(err)
        {
            console.log(err);
        }
        else
        {
            res.render("posts/show",{post:foundPost});

        }
    })
});
//edit post by ID
router.get("/home/:id/edit",middleware.isLoggedIn,middleware.checkPostOwnership,function(req,res) {
        //find the post and fill the edit form with post details
        Posts.findById(req.params.id,function(err,foundPost) {
                res.render("posts/edit",{post:foundPost});
            });
});
```

```
//update  post route
router.put("/home/:id/edit",middleware.isLoggedIn,middleware.checkPostOwnership,function(req,res) {
        //find and update
        Posts.findByIdAndUpdate(req.params.id,req.body.postt,function(err,updatedPost) {
                if(err)
                {
                                res.redirect("/home")
                }
                else
                {
                        res.redirect("/home/"+req.params.id);
                }
        })
});
//delete the post
router.delete("/home/:id",middleware.checkPostOwnership,function(req,res) {
        //find and remove the post from mongodb
        Posts.findByIdAndRemove(req.params.id,function(err) {
                if(err)
                {
                        res.redirect("/home");
                // body...
                }
                else
                {
                        res.redirect("/home");
                }
        })
});
//like request for the post
router.get("/home/:id/likes",middleware.isLoggedIn,function(req,res)
{
        //find the post by id
                Posts.findById(req.params.id, function (err, doc){
                if(err)
                {
                        console.log(err);
                }
                else{
                // take username of the user who liked the post
                var us=req.user.username;
                // append the username to the error and save
                doc.likedby.addToSet(us);
                doc.save()
                console.log(doc.likedby);
                res.redirect("/home/"+req.params.id);
                }
        });
});

module.exports=router;
```

- **/routes/comment.js**

```
//requiring express
var express=require("express");
var router= express.Router();
//requiring posts and comment model from mongodb
var Posts=require("../models/posts");
var Comment =require("../models/comment");
//requiring middleware file
var middleware=require("../middleware");
//new comments form
router.get("/home/:id/comments/new",middleware.isLoggedIn,function(req,res) {
    //find the post by id
    Posts.findById(req.params.id,function(err,posts) {

        if(err)
        {
            console.log(err);
        }
        else
        {
            res.render("comments/new",{posts:posts});
        }
    })
});
//comments create
router.post("/home/:id/comments",middleware.isLoggedIn,function(req,res) {
    //lookup posts using id
    Posts.findById(req.params.id,function(err,posts) {
        if(err)
        {
            console.log(err);
            res.redirect("/home");
        }
        else
        {
            //create new comment
            Comment.create(req.body.comment,function(err,comment) {
                if(err)
                {
                    req.flash("error","something went wrong");
                    console.log(err);
                }
                else
                {
                    //add username and id to comment
                    comment.author.id=req.user._id;
                    comment.author.username=req.user.username;
                    comment.save();
                    //save comments
                    posts.comments.push(comment);
                    posts.save();
                    console.log(comment);
                    //show page
                    req.flash("success","Added comment");
                    res.redirect("/home/"+posts._id);
                }
            })
        }
    }
});
//edit route
router.get("/home/:id/comments/:comments_id/edit",middleware.isLoggedIn,middleware.checkCommentOwnership,function(req,res) {
    //find the comment using id
    Comment.findById(req.params.comments_id,function(err,foundComment) {
        if(err)
        {
            res.redirect("back");
        }
        else
        {
            res.render("comments/edit",{campground_id:req.params.id,comment:foundComment});
        }
    })
});
//comment update route
router.put("/home/:id/comments/:comments_id/edit",middleware.isLoggedIn,middleware.checkCommentOwnership,function(req,res) {
    //update the comment using comments/edit.js details
    Comment.findByIdAndUpdate(req.params.comments_id,req.body.comment,function(err,updatedComment) {
        if(err)
        {
            res.redirect("back");
        }
        else
        {
            res.redirect("/home/"+req.params.id);
        }
    })
})
//commment destroy route
router.delete("/home/:id/comments/:comments_id",middleware.isLoggedIn,middleware.checkCommentOwnership,function(req,res) {
    //find and delete the comment using ID
    Comment.findByIdAndRemove(req.params.comments_id,function(err) {
        if(err)
        {
            res.redirect("back");
        }
        else
        {
```

```
                        req.flash("success","Comment deleted");
                        res.redirect("/home/"+req.params.id);
                }
        })
})
module.exports=router;
```

- **/views/landing.ejs**

```
<html>
<head>
  <title>Youbook</title>
  <link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.0/css/bootstrap.min.css" rel="stylesheet"
    id="bootstrap-css">
  <script src="https://code.jquery.com/jquery-1.11.1.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.0/js/bootstrap.min.js"></script>
  <link rel="stylesheet" href="/stylesheets/hi.css">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
  <div class="aa_sec">
    <div class="aa_txt">
      <span class="aa_inner">
        <h1>Welcome to YouBook!</h1>
        <a href="/login" class="btn btn-lg btn-success">Enter!</a>
      </span>
    </div>
  </div>
  <div id="aa_particles"></div>
  <script src="https://cdn.jsdelivr.net/particles.js/2.0.0/particles.min.js"></script>
  <script type="text/javascript">
    particlesJS("aa_particles", { "particles": { "number": { "value": 60, "density": { "enable": true, "value_area":
800 } }, "color": { "value": "#ffffff" }, "shape": { "type": "circle", "stroke": { "width": 0, "color": "#000000" },
"polygon": { "nb_sides": 5 }, "image": { "src": "img/github.svg", "width": 100, "height": 100 } }, "opacity":
{ "value": 0.25, "random": false, "anim": { "enable": false, "speed": 1, "opacity_min": 0.1, "sync": false } },
"size": { "value": 3, "random": true, "anim": { "enable": false, "speed": 40, "size_min": 0.1, "sync": false } },
"line_linked": { "enable": true, "distance": 150, "color": "#ffffff", "opacity": 0.3, "width": 1 }, "move":
{ "enable": true, "speed": 3, "direction": "none", "random": false, "straight": false, "out_mode": "out", "bounce":
false, "attract": { "enable": false, "rotateX": 600, "rotateY": 1200 } } }, "interactivity": { "detect_on": "canvas",
"events": { "onhover": { "enable": true, "mode": "repulse" }, "onclick": { "enable": true, "mode": "push" },
"resize": true }, "modes": { "grab": { "distance": 400, "line_linked": { "opacity": 1 } }, "bubble": { "distance":
400, "size": 40, "duration": 2, "opacity": 8, "speed": 3 }, "repulse": { "distance": 200, "duration": 0.4 }, "push":
{ "particles_nb": 4 }, "remove": { "particles_nb": 2 } } }, "retina_detect": true }); var count_particles; var
update; var stats = new stats; stats.setMode(0); stats.domElement.style.position = 'absolute';
stats.domElement.style.left = '0px'; stats.domElement.style.top = '0px';
document.body.appendChild(stats.domElement); count_particles = document.querySelector('.js-count-
particles'); update = function () { stats.begin(); stats.end(); if (window.pJSDom[0].pJS.particles &&
window.pJSDom[0].pJS.particles.array) { count_particles.innerText =
window.pJSDom[0].pJS.particles.array.length; } requestAnimationFrame(update); };
requestAnimationFrame(update);;
  </script>
</body>
</html>
```

- **/views/register.ejs**

```
<html>
<head>
  <title>Youbook</title>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.0.8/css/solid.css">
  <link rel="stylesheet" type="text/css" href="/stylesheets/login.css">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
  <div class="container" id="flash">
    <%if(error && error.length>0){%>
      <div class="alert alert-danger" role="alert">
        <%=error%>
      </div>
      <%}%>
        <%if(success && success.length>0){%>
          <div class="alert alert-success" role="alert">
            <%=success%>
          </div>
          <%}%>
  </div>
  <div class="container">
    <div class="card card-container">
      <img id="profile-img" class="profile-img-card" src="/logo/YouBook.jpg" />
      <p id="profile-name" class="profile-name-card"></p>
      <form class="form-signin" action="/register" method="POST">
        <input class="form-control" type="text" placeholder="enter username" name="username"
          oninvalid="this.setCustomValidity('Enter Username')" oninput="this.setCustomValidity(")" required
autofocus>
        <input class="form-control" type="password" placeholder="enter password" name="password"
          oninvalid="this.setCustomValidity('Enter password')" oninput="this.setCustomValidity(")" required>
        <button class="btn btn-lg btn-primary btn-block btn-signin" type="submit">Register</button>
      </form><!-- /form -->
      <a class="btn btn-lg btn-primary btn-block btn-signin" href="/login">Already a user?</a>
    </div><!-- /card-container -->
  </div><!-- /container -->
  <ul class="slideshow">
    <li></li>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
  </ul>
</body>
<%- include('partials/footer'); -%>
```

- **/views/login.ejs**

```
<html>
<head>
  <title>Youbook</title>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.0.8/css/solid.css">
  <link rel="stylesheet" type="text/css" href="/stylesheets/login.css">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
  <div class="container" id="flash">
    <%if(error && error.length>0){%>
      <div class="alert alert-danger" role="alert">
        <%=error%>
      </div>
      <%}%>
        <%if(success && success.length>0){%>
          <div class="alert alert-success" role="alert">
            <%=success%>
          </div>
          <%}%>
  </div>
  <div class="container">
    <div class="card card-container">
      <img id="profile-img" class="profile-img-card" src="/logo/YouBook.jpg" />
      <p id="profile-name" class="profile-name-card"></p>
      <form class="form-signin" action="/login" method="POST">
        <input class="form-control" type="text" placeholder="enter username" name="username"
          oninvalid="this.setCustomValidity('Enter username')" oninput="this.setCustomValidity(")" required
autofocus>
        <input class="form-control" type="password" placeholder="enter password" name="password"
          oninvalid="this.setCustomValidity('Enter password')" oninput="this.setCustomValidity(")" required>
        <button class="btn btn-lg btn-primary btn-block btn-signin" type="submit">Sign in</button>
      </form><!-- /form -->
      <a class="btn btn-lg btn-primary btn-block btn-signin" href="/register">New User</a>
    </div><!-- /card-container -->
  </div><!-- /container -->
  <ul class="slideshow">
    <li></li>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
  </ul>
</body>
<%- include('partials/footer'); -%>
```

- **/views/partials/header.ejs**

```
<html>
<head>
  <title>Youbook</title>
  <link href="https://stackpath.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css" rel="stylesheet">
  <link rel="stylesheet" href="/stylesheets/main.css">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
  <nav class="navbar navbar-default">
    <div class="container-fluid">
      <!-- Brand and toggle get grouped for better mobile display -->
      <div class="navbar-header">
        <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
          data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
          <span class="sr-only">Toggle navigation</span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand" href="/">Youbook</a>
      </div>
      <!-- Collect the nav links, forms, and other content for toggling -->
      <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
        <ul class="nav navbar-nav navbar-right">
          <% if(!currentUser){%>
            <li><a href="/login">Login</a></li>
            <li><a href="/register">Signup</a></li>
            <%}else{%>
              <li><a href="#">Signed in as <%= currentUser.username %></a></li>
              <li><a href="/joinchat">Enter Chatroom</a></li>
              <li><a href="/logout">logout</a></li>
        </ul>
        <%}%>
      </div><!-- /.navbar-collapse -->
    </div><!-- /.container-fluid -->
  </nav>
  <div class="container">
    <%if(error && error.length>0){%>
      <div class="alert alert-danger" role="alert">
        <%=error%>
      </div>
      <%}%>
        <%if(success && success.length>0){%>
          <div class="alert alert-success" role="alert">
            <%=success%>
          </div>
          <%}%>
```

- **/views/partials/footer.ejs**

```
<script src="https://code.jquery.com/jquery-2.2.4.js" integrity="sha256-iT6Q9iMJYuQiMWNd9lDyBUStIq/8PuOW33aOqmvFpqI=" crossorigin="anonymous"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js" integrity="sha384-Tc5IQib027qvyjSMfHjOMaLkfuWVxZxUPnCJA7l2mCWNIpG9mGCD8wGNIcPD7Txa" crossorigin="anonymous"></script>
</body>
</html>
```

- **/views/partials/forms.ejs**

```
<!DOCTYPE html>
<html>
<head>
  <title>Youbook</title>
  <link href="https://stackpath.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css" rel="stylesheet">
<link rel="stylesheet" href="/stylesheets/forms.css">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<nav class="navbar navbar-default">
  <div class="container-fluid">
    <!-- Brand and toggle get grouped for better mobile display -->
    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="/">Youbook</a>
    </div>
    <!-- Collect the nav links, forms, and other content for toggling -->
    <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
      <ul class="nav navbar-nav navbar-right">
         <% if(!currentUser){%>
        <li><a href="/login">Login</a></li>
        <li><a href="/register">Signup</a></li>
        <%}else{%>
        <li><a href="#">Signed in as <%= currentUser.username %></a></li>
        <li><a href="/joinchat">Enter Chatroom</a></li>
        <li><a href="/logout">logout</a></li>
      </ul>
      <%}%>
    </div><!-- /.navbar-collapse -->
  </div><!-- /.container-fluid -->
</nav>
<div class="container">
    <%if(error && error.length>0){%>
      <div class="alert alert-danger" role="alert">
          <%=error%>
```

```
   </div>
  <%}%>
  <%if(success && success.length>0){%>
   <div class="alert alert-success" role="alert">
    <%=success%>
   </div>
  <%}%>
```

- **/views/posts/new.ejs**

```
<%- include('../partials/forms'); -%>
 <div class="modal-dialog text-center form-page">
  <div class="col-sm-9 main-section">
   <h1 class="ftitle">Add new post</h1>
   <div class="modal-content">
    <div class="col-12">
     <h1></h1>
    </div>
    <div class="col-12 form-input">
     <form action="/home" method="POST" enctype="multipart/form-data">
      <div class="form-group">
       <input class="form-control" type="text" placeholder="enter name" name="name"
        oninvalid="this.setCustomValidity('Please Enter Your Postname')"
oninput="this.setCustomValidity('')"
        required>
      </div>
      <div class="form-group">
       <input class="form-control" type="text" placeholder="description" name="description"
        oninvalid="this.setCustomValidity('Enter description')" oninput="this.setCustomValidity('')"
required>
      </div>
      <div class="form-group">
       <label class="btn btn-default btn-lg">
        Browse Image <input class="form-control" type="file" name="photo" hidden
         oninvalid="this.setCustomValidity('Include an image')" oninput="this.setCustomValidity('')"
         required />
       </label>
      </div>
      <button type="submit" class="btn btn-success">submit</button>
      <div class="goback">
       <a class="btn btn-warning btn-lg" href="/home/"> Go back!</a>
      </div>
     </form>
    </div>
   </div>
  </div>
 </div>
 <%- include('../partials/footer'); -%>
```

- **/views/posts/index.ejs**

```
<%- include('../partials/header'); -%>
    <header class="jumbotron">
        <div class="container">
            <h1>Keep YouBooking</h1>
            <p>Whats on your mind?</p>
            <p>
                <a id="postbtn" class="btn btn-primary btn-large" href="/home/new"
style="border-radius: 15%;">New
                    Post</a>
            </p>
        </div>
    </header>
    <div class="row text-center" style="display:flex; flex-wrap:wrap;">
        <%campgrounds.reverse().forEach(function(campground){%>
            <div class="col-md-3 col-sm-6">
                <div class="thumbnail" style="border-radius: 10%;">
                    <img id="thumbindex" src="<%=campground.pphoto%>"
                        style="border-radius: 15%;padding-top: 2px;padding-left:
2px;padding-right: 2px;">
                    <div class="caption">
                        <h4>
                            <%=campground.name%>
                        </h4>
                    </div>
                    <p>
                        <a href="/home/<%=campground._id%>" class="btn btn-lg btn-
primary" id="more">More Info</a>
                    </p>
                </div>
            </div>
            <%});%>
    </div>
    </div>
    <%- include('../partials/footer'); -%>
```

- **/views/posts/show.ejs**

```
                                        <%- include('../partials/header'); -%>
                                               <div class="container">
                                                  <div class="row">
                                                <div class="col-md-1">
                                                         </div>
                                               <div class="col-md-10">
                                   <div class="thumbnail" style="border-radius:2%;">
             <img class="img-fluid" id="postimage" id="thumbindex" src="<%=campground.pphoto%>"
                                             style="border-radius: 2%;">
                                                 <div class="caption-full">
             <h4 class="pull-right"><%=campground.likedby.length ;%> Likes <form action="/home/<%=
                                    campground._id%>/likes" method="GET">
                     <input type="submit" id="likeb" onclick="likee()" class="btn btn-success btn-lg"
                                               value="like"></button>
```

```
</form></h4>
<h4><a href="/home/"><%=campground.name%></a></h4>
<p><%=campground.description%></p>
<p>
<em>Submitted by <%=campground.author.username%> on
<%=moment(campground.createdAt).format("hh:mma Do-MMM-YYYY")%></em>
</p>
<% if(currentUser && campground.author.id.equals(currentUser._id)){%>
<a class="btn btn-warning" href="/home/<%=campground._id%>/edit">Edit</a>
<form class="delete-form" action="/home/<%= campground._id%>?_method=DELETE"
method="POST">
<button class="btn btn-danger">Delete</button>
</form>
<%}%>
</div>
</div>
<div class="well" style="border-radius: 10%;">
<div class="text-right">
<a  class="btn btn-success" href="/home/<%=campground._id%>/comments/new">
Add new Comment
</a>
</div>
<hr>
<%campground.comments.forEach(function(comment){%>
<div class="row">
<div class="col-md-12">
<strong><%=comment.author.username%></strong>
<span class="pull-right">
<%=moment(comment.createdAt).format("hh:mma Do-MMM-YYYY")%>
</span>
<p>
<%=comment.text%>
</p>
<% if(currentUser && comment.author.id.equals(currentUser._id)){%>
<a class="btn btn-xs btn-warning"
href="/home/<%=campground._id%>/comments/<%=comment._id%>/edit">Edit</a>
<form class="delete-form"
action="/home/<%=campground._id%>/comments/<%=comment._id%>?_method=DELETE"
method="POST">
<input type="submit" class="btn btn-xs btn-danger" value="delete">
</form>
<%}%>
</div>
</div>
<%})%>
</div>
</div>
</div>
</div>

<%- include('../partials/footer'); -%>
```

- **/views/posts/edit.ejs**

```
<%- include('../partials/forms'); -%>
  <div class="modal-dialog text-center form-page">
    <div class="col-sm-9 main-section">
      <h1 class="ftitle">Edit your post <%= campground.name %>
      </h1>
      <div class="modal-content">
        <div class="col-12">
          <h1></h1>
        </div>
        <div class="col-12 form-input">
          <form action="/home/<%= campground._id %>/edit?_method=PUT" method="POST">
            <div class="form-group">
              <input class="form-control" type="text" value="<%= campground.name %>"
name="campground[name]"
                oninvalid="this.setCustomValidity('Please Enter Your Postname')"
oninput="this.setCustomValidity(")"
                required>
            </div>
            <div class="form-group">
              <input class="form-control" type="text" value="<%= campground.description %>"
                name="campground[description]" oninvalid="this.setCustomValidity('Please Enter Your
Postdescription')"
                oninput="this.setCustomValidity(")" required>
            </div>
            <button type="submit" class="btn btn-success">submit</button>
            <div class="goback">
              <a class="btn btn-warning btn-lg" href="/home/<%=campground._id%>/"> Go back!</a>
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
  <%- include('../partials/footer'); -%>
```

- **/views/comment/new.ejs**

```
<%- include('../partials/forms'); -%>

<div class="modal-dialog text-center form-page">
    <div class="col-sm-9 main-section">
    <h1 class="ftitle">Add comment to <%=campground.name%></h1>
      <div class="modal-content">
          <div class="col-12">
          <h1></h1>
        </div>
        <div class="col-12 form-input">
                                   <form action="/home/<%=campground._id%>/comments" method="POST">
                                               <div class="form-group">
```

```
                        <input class="form-control" type="text" placeholder="enter comment" name="comment[text]" oninvalid="this.setCustomValidity('Please enter your comment')" oninput="this.setCustomValidity(")" required>
                                    </div>
            <button type="submit" class="btn btn-success">submit</button>
            <div class="goback">
            <a class="btn btn-warning btn-lg" href="/home/<%=campground._id%>/" > Go back!</a>
            </div>
          </form>
        </div>
      </div>
    </div>
</div>
<%- include('../partials/footer'); -%>
```

- **/views/comment/edit.ejs**

```
<%- include('../partials/forms'); -%>
<div class="modal-dialog text-center form-page">
    <div class="col-sm-9 main-section">
    <h1 class="ftitle">Edit Comment</h1>
      <div class="modal-content">
          <div class="col-12">
          <h1></h1>
        </div>
        <div class="col-12 form-input">
                                    <form action="/home/<%=campground_id%>/comments/<%=comment._id%>/edit?_method=PUT" method="POST">
                                                <div class="form-group">
                        <input class="form-control" type="text" value="<%=comment.text%>" placeholder="enter comment" name="comment[text]" oninvalid="this.setCustomValidity('Please enter your comment')" oninput="this.setCustomValidity(")" required>
                                    </div>
            <button type="submit" class="btn btn-success">submit</button>
            <div class="goback">
            <a class="btn btn-warning btn-lg" href="/home/<%=campground_id%>/" > Go back!</a>
            </div>
          </form>
        </div>
      </div>
    </div>
</div>
<%- include('../partials/footer'); -%>
```

- **/utils/user.js**

```
const users = [];
// Join user to chat
function userJoin(id, username, room) {
  const user = { id, username, room };
  users.push(user);
  return user;
}
```

```
// Get current user
function getCurrentUser(id) {
  return users.find(user => user.id === id);
}
// User leaves chat
function userLeave(id) {
  const index = users.findIndex(user => user.id === id);
  if (index !== -1) {
    return users.splice(index, 1)[0];
  }
}
// Get room users
function getRoomUsers(room) {
  return users.filter(user => user.room.toLowerCase() === room);
}
module.exports = {
  userJoin,
  getCurrentUser,
  userLeave,
  getRoomUsers
};
```

- **/utils/messages.js**

```
const moment = require('moment')
function formatMessage(username,text){
        return{
                username,
                text,
                time: moment().format('h:mm:a')
        }
}
module.exports= formatMessage;
```

- **/public/chat.html**

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
    integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.12.1/css/all.min.css"
    integrity="sha256-mmgLkCYLUQbXn0B1SRqzHar6dCnv9oZFPEC1g1cwlkk=" crossorigin="anonymous"
/>
  <link rel="stylesheet" href="stylesheets/style.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js">
  </script>
  <title>YouBook chat</title>
</head>
<body>
  <div class="chat-container">
    <header class="chat-header">
```

```
      <h1><i class="fas fa-smile"></i> YouBook</h1>
      <a href="/home" class="btn">Leave Room</a>
    </header>
    <main class="chat-main">
      <div class="chat-sidebar">
        <h3><i class="fas fa-comments"></i> Room Name:</h3>
        <h2 id="room-name"></h2>
        <h3><i class="fas fa-users"></i> Users</h3>
        <ul id="users">
        </ul>
      </div>
      <div class="chat-messages">
      </div>
    </main>
    <div class="chat-form-container">
      <form id="chat-form">
        <input id="msg" type="text" placeholder="Enter Message"
          oninvalid="this.setCustomValidity('Please Enter Message')" oninput="this.setCustomValidity('')"
required
          autocomplete="off" />
        <button class="btn"><i class="fas fa-paper-plane"></i> Send</button>
      </form>
    </div>
  </div>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/qs/6.9.2/qs.min.js"
    integrity="sha256-TDxXjkAUay70ae/QJBEpGKkpVslXaHHayklIVglFRT4="
crossorigin="anonymous"></script>
  <script src="/socket.io/socket.io.js"></script>
  <script src="js/main.js"></script>
</body>
</html>
```

- **/public/room.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta http-equiv="X-UA-Compatible" content="ie=edge" />
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css"
        integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.12.1/css/all.min.css"
        integrity="sha256-mmgLkCYLUQbXn0B1SRqzHar6dCnv9oZFPEC1g1cwlkk="
crossorigin="anonymous" />
    <link rel="stylesheet" href="stylesheets/style.css" />
    <title>Youbook chat</title>
</head>
<body>
    <div class="join-container">
        <header class="join-header">
```

```
			<h1><i class="fas fa-smile"></i> YouBook</h1>
		</header>
		<div class="form-group">
			<form action="chat.html">
				<div class="form-control">
					<input type="text" name="username" id="username" placeholder="Enter
username..."
						oninvalid="this.setCustomValidity('Please Enter Username')"
oninput="this.setCustomValidity('')"
						required />
				</div>
				<div class="form-control">
					<input type="text" name="room" id="room" placeholder="Enter room..."
						oninvalid="this.setCustomValidity('Please Enter Your interests')"
						oninput="this.setCustomValidity('')" required />
				</div>
				<button type="submit" class="btn">Join Chat</button>
			</form>
			<a href="/home"><button class="btn">Go Back Home</button> </a>
		</div>
	</div>
</body>
</html>
```

- **/public/js/main.js**

```
const chatForm = document.getElementById('chat-form');
const chatMessages = document.querySelector('.chat-messages');
const roomName = document.getElementById('room-name');
const userList = document.getElementById('users');
$.getJSON('/api/user_data', function(data) {
   // JSON result in `data` variable
   var data=JSON.stringify(data.userr);
   console.log(data)
});
// Get username and room from URL
const { username, room } = Qs.parse(location.search, {
  ignoreQueryPrefix: true,
});
const socket = io();
// Join chatroom
socket.emit('joinRoom', { username, room });
// Get room and users
socket.on('roomUsers', ({ room, users }) => {
  outputRoomName(room);
  outputUsers(users);
});
// Message from server
socket.on('message', (message) => {
  console.log(message);
  outputMessage(message);
  // Scroll down
  chatMessages.scrollTop = chatMessages.scrollHeight;
});
// Message submit
chatForm.addEventListener('submit', (e) => {
  e.preventDefault();
  // Get message text
  let msg = e.target.elements.msg.value;
  msg = msg.trim();
  if (!msg) {
    return false;
  }
  // Emit message to server
  socket.emit('chatMessage', msg);
  // Clear input
  e.target.elements.msg.value = '';
  e.target.elements.msg.focus();
});
// Output message to DOM
function outputMessage(message) {
  const div = document.createElement('div');
  div.classList.add('message');
  const p = document.createElement('p');
  p.classList.add('meta');
  p.innerText = message.username;
  p.innerHTML += `<span>${message.time}</span>`;
  div.appendChild(p);
  const para = document.createElement('p');
  para.classList.add('text');
  para.innerText = message.text;
  div.appendChild(para);
  document.querySelector('.chat-messages').appendChild(div);
}
// Add room name to DOM
function outputRoomName(room) {
  roomName.innerText = room;
}
// Add users to DOM
function outputUsers(users) {
  userList.innerHTML = '';
  users.forEach((user) => {
    const li = document.createElement('li');
    li.innerText = user.username;
    userList.appendChild(li);
  });
}
```

- **/public/stylesheets/forms.css**

```
body{
            background-repeat: no-repeat;
    background-image: linear-gradient(rgb(104, 145, 162), rgb(12, 97, 33));
}
html
{
    height: 100%;
}
.delete-form
{
        display: inline;
}

#postimage {
        display: block;
        max-width: 100%;
        height: 600px;
        width: 1000px;
  }
#thumbindex
{
        display: block;
        max-width: 100%;
        height: 200px;
        width: 300px;
}
.jumbotron
{

        border-radius: 40%;
}
#postbtn:hover,
#postbtn:active,
#postbtn:focus {
    background-color: rgb(12, 97, 33);
}
@import url('https://fonts.googleapis.com/css?family=Roboto');
.main-section {
        margin: 0 auto;
        margin-top: 2%;
        padding: 0;
        align-self: center;
}
.modal-content {
        background-color: #434e5a;
        opacity: .8;
        padding: 0 18px;
        border-radius: 10px;
}
.user-img img {
        height: 120px;
        width: 120px;
}
.user-img {
        margin-top: -60px;
        margin-bottom: 45px;
        border-radius: 2px;
```

```
}
.form-group {
	margin-bottom: 25px;
}
.form-group input {
	height: 42px;
	border-radius: 5px;
	border: 0;
	font-size: 18px;
	letter-spacing: 2px;
	padding-left: 54px;
}
.form-group::before {
	font-family: 'Font Awesome\ 5 Free';
	position: absolute;
	font-size: 22px;
	left: 28px;
	padding-top: 4px;
	color: #555e60;
}
.form-group:last-of-type::before {
}
.form-input button {
	width: 40%;
	margin: 5px 0 25px;
}
.btn-success {
	background-color: #1c6288;
	font-size: 19px;
	border-radius: 5px;
	padding: 7px 14px;
	border: 1px solid #daf1ff;
}
.btn-success:hover {
	background-color: #13445e;
	border: 1px solid #daf1ff;
}
.form-page
{
  z-index: 1;
  position: relative;
  text-align: center;
}

#flash
{
  z-index: 1;
  position: relative;
  text-align: center;
}
```

```
.goback
{
 padding-bottom: 5%;
}
.labels{
            color: white;
            font-weight: bold;
            padding-left: 3%;
            display: block;
            float: left;
}
.ftitle
{
            text-align:center;
            color: white;
            font-weight: bold;
            padding-left: 3%;
            display: block;
}
[hidden] {
            display: none !important;
  }
```

- **/public/stylesheets/landing.css**

```
*{
    -webkit-box-sizing: border-box;
    -moz-box-sizing: border-box;
    box-sizing: border-box;
  }
  html,
  body
  {
      margin: 0;
    background: #200029;
  }
  canvas
  {
      display: block;
  }
  #aa_particles
  {
      z-index: 4;
      height: 100%;
      height: 100vh;
      background:  #200029;
  }
  @import url(http://fonts.googleapis.com/css?family=Roboto:100);
  .aa_sec
  {
      position: absolute;
      z-index: 5;
      top: 50%;
      right: 0;
      left: 0;
      margin: 0  auto;
  }
  .aa_txt
  {
      font: 100 10vh/1 Roboto;
      text-align: center;
      color: #674172;
  }
  .aa_inner
  {
      padding: 0 2rem;
      color: white;
      text-transform: uppercase;
      background: c2;
  }
  .aa_of
  {
      padding: 1rem;
      color: c2;
      background: darken(#674172,5%);
  }
  @import url(http://fonts.googleapis.com/css?family=Roboto:100);
  /* Space out content a bit */
  body {
    padding-top: 20px;
    padding-bottom: 20px;
  }
  /* Everything but the jumbotron gets side spacing for mobile first views */
  .header,
  .marketing,
  .footer {
    padding-right: 15px;
    padding-left: 15px;
  }
  /* Custom page header */
  .header {
    padding-bottom: 20px;
    border-bottom: 1px solid #e5e5e5;
  }
  /* Make the masthead heading the same height as the navigation */
  .header h3 {
    margin-top: 0;
    margin-bottom: 0;
    line-height: 40px;
  }
  /* Custom page footer */
  .footer {
    padding-top: 19px;
```

```
    color: #777;
    border-top: 1px solid #e5e5e5;
  }
  /* Customize container */
  @media (min-width: 768px) {
    .container {
      max-width: 730px;
    }
  }
  .container-narrow > hr {
    margin: 30px 0;
  }
  /* Main marketing message and sign up button */
  .jumbotron {
    text-align: center;
    border-bottom: 1px solid #e5e5e5;
  }
  .jumbotron .btn {
    padding: 14px 24px;
    font-size: 21px;
  }
  /* Supporting marketing content */
  .marketing {
    margin: 40px 0;
  }
  .marketing p + h4 {
    margin-top: 28px;
  }
  /* Responsive: Portrait tablets and up */
  @media screen and (min-width: 768px) {
    /* Remove the padding we set earlier */
    .header,
    .marketing,
    .footer {
      padding-right: 0;
      padding-left: 0;
    }
    /* Space out the masthead */
    .header {
      margin-bottom: 30px;
    }
    /* Remove the bottom border on the jumbotron for visual effect */
    .jumbotron {
      border-bottom: 0;
    }
  }
```

- **/public/stylesheets/login.css**

```
body, html {
    height: 100%;
    /*background-repeat: no-repeat;
    background-image: linear-gradient(rgb(104, 145, 162), rgb(12, 97, 33));*/
```

```
}
.card-container.card {
    max-width: 350px;
    padding: 40px 40px;
    z-index: 1;
    background-color: #3e90e7;
    opacity: .8;
    border-radius: 10px;
}
.btn {
    font-weight: 700;
    height: 36px;
    -moz-user-select: none;
    -webkit-user-select: none;
    user-select: none;
    cursor: default;
}
.card {
    background-color: #F7F7F7;
    /* just in case there no content*/
    padding: 20px 25px 30px;
    margin: 0 auto 25px;
    margin-top: 50px;
    /* shadows and rounded borders */
    -moz-border-radius: 2px;
    -webkit-border-radius: 2px;
    border-radius: 2px;
    -moz-box-shadow: 0px 2px 2px rgba(0, 0, 0, 0.3);
    -webkit-box-shadow: 0px 2px 2px rgba(0, 0, 0, 0.3);
    box-shadow: 0px 2px 2px rgba(0, 0, 0, 0.3);
}
.profile-img-card {
    width: 134px;
    height: 134px;
    margin: 0 auto 10px;
    display: block;
    -moz-border-radius: 50%;
    -webkit-border-radius: 50%;
    border-radius: 50%;
}
.profile-name-card {
    font-size: 16px;
    font-weight: bold;
    text-align: center;
    margin: 10px 0 0;
    min-height: 1em;
}
.form-signin #inputEmail,
.form-signin #inputPassword {
    direction: ltr;
    height: 44px;
    font-size: 16px;
}
.form-signin input[type=email],
.form-signin input[type=password],
.form-signin input[type=text],
.form-signin button {
    width: 100%;
    display: block;
    margin-bottom: 10px;
    z-index: 1;
    position: relative;
    -moz-box-sizing: border-box;
    -webkit-box-sizing: border-box;
    box-sizing: border-box;
    border-radius: 10px;
}
.form-signin .form-control:focus {
    border-color: rgb(104, 145, 162);
    outline: 0;
    -webkit-box-shadow: inset 0 1px 1px rgba(0,0,0,.075),0 0 8px rgb(104, 145, 162);
    box-shadow: inset 0 1px 1px rgba(0,0,0,.075),0 0 8px rgb(104, 145, 162);
}
.btn.btn-signin {
    /*background-color: #4d90fe; */
    background-color: rgb(196, 236, 15);
    /* background-color: linear-gradient(rgb(104, 145, 162), rgb(12, 97, 33));*/
    padding: 0px;
    font-weight: 700;
    font-size: 14px;
    height: 36px;
    -moz-border-radius: 3px;
    -webkit-border-radius: 3px;
    border-radius: 3px;
    border: none;
    -o-transition: all 0.218s;
    -moz-transition: all 0.218s;
    -webkit-transition: all 0.218s;
    transition: all 0.218s;
    border-radius: 10px;
}
.btn.btn-signin:hover,
.btn.btn-signin:active,
.btn.btn-signin:focus {
    background-color: rgb(12, 97, 33);
}
.slideshow {
  position: fixed;
  width: 100%;
  height: 100%;
  top: 0;
  left: 0;
  z-index: 0;
  list-style: none;
  margin: 0;
  padding: 0;
}
.slideshow li {
  width: 100%;
  height: 100%;
  position: absolute;
  top: 0;
  left: 0;
  background-size: cover;
  background-position: 50% 50%;
  background-repeat: no-repeat;
  opacity: 0;
  z-index: 0;
  animation: imageAnimation 50s linear infinite;
}
.slideshow li:nth-child(1) {
  background-image: url(https://images.unsplash.com/photo-1483982258113-b72862e6cff6?ixlib=rb-1.2.1&ixid=MXwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&auto=format&fit=crop&w=1500&q=80);
  animation-delay: 0s;
}
.slideshow li:nth-child(2) {
  background-image: url(https://images.unsplash.com/photo-1530103043960-ef38714abb15?ixlib=rb-1.2.1&ixid=MXwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&auto=format&fit=crop&w=750&q=80);
  animation-delay: 5s;
}
.slideshow li:nth-child(3) {
  background-image: url(https://images.unsplash.com/photo-1563089145-599997674d42?ixid=MXwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&ixlib=rb-1.2.1&auto=format&fit=crop&w=750&q=80);
  animation-delay: 10s;
}
.slideshow li:nth-child(4) {
  background-image: url(https://images.unsplash.com/photo-1597814680173-79cc17fddbfe?ixlib=rb-1.2.1&ixid=MXwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&auto=format&fit=crop&w=750&q=80);
  animation-delay: 15s;
}
.slideshow li:nth-child(5) {
  background-image: url(https://images.unsplash.com/photo-1530103043960-ef38714abb15?ixlib=rb-1.2.1&ixid=MXwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&auto=format&fit=crop&w=750&q=80);
  animation-delay: 20s;
}
@keyframes imageAnimation {
  0% {
    opacity: 0;
    animation-timing-function: ease-in;
  }
  10% {
    opacity: 1;
    animation-timing-function: ease-out;
  }
  20% {
    opacity: 1
  }
  30% {
    opacity: 0
  }
}
/* Older browser support - .no-cssanimations class added by modernizr */
.no-cssanimations .slideshow li {
	opacity: 1;
}
#flash
{
  z-index: 1;
  position: relative;
  text-align: center;
}
```

- **/public/stylesheets/main.css**

```
body{
	background-repeat: no-repeat;
    background-image: linear-gradient(rgb(104, 145, 162), rgb(12, 97, 33));
}
.thumbnail img
{
	width: 100%;
}
.thumbnail
{
	padding: 0;

}
.thumbnail .caption-full
{
	padding: 9px;
}
.delete-form
{
	display: inline;
}
.jumbotron
{

	border-radius: 40%;
}
```

```
#more:hover,
#more:active,
#more:focus {
   background-color: rgb(12, 97, 33);
}
#postbtn:hover,
#postbtn:active,
#postbtn:focus {
   background-color: rgb(12, 97, 33);
}
```

- **/public/stylesheets/style.css**

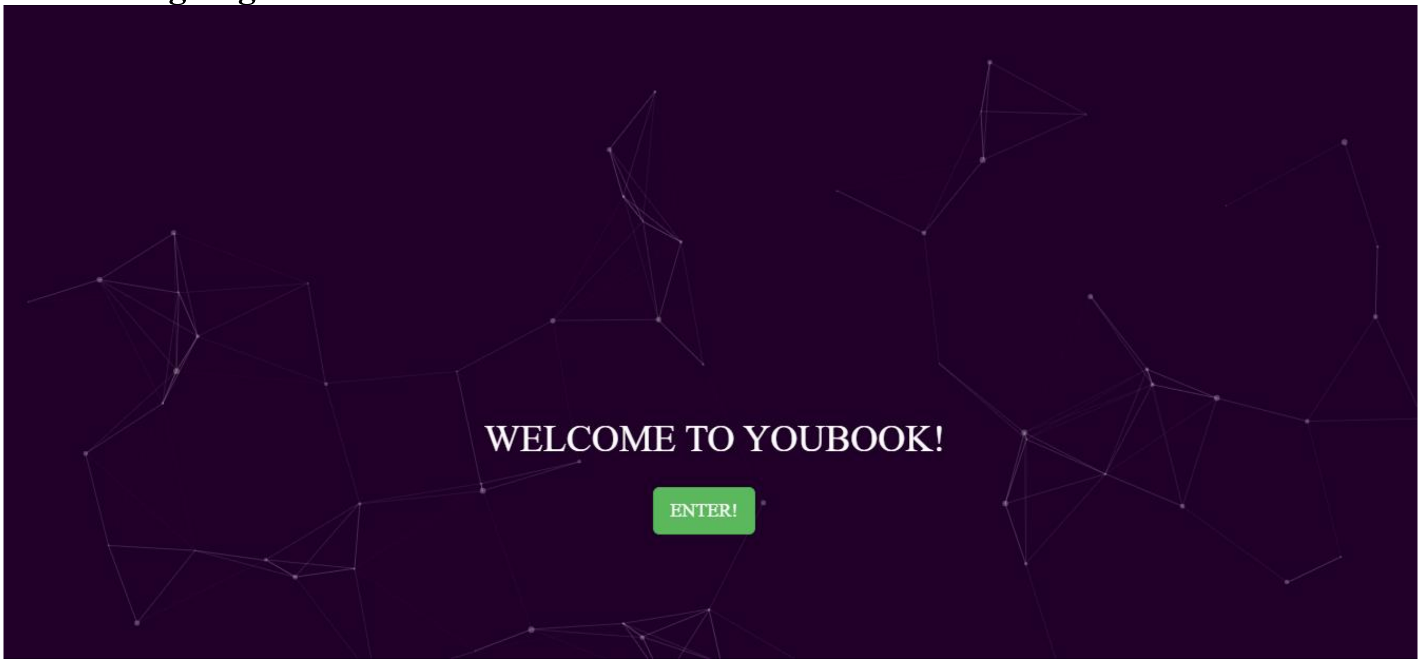
```
body{
	background-repeat: no-repeat;
   background-image: linear-gradient(rgb(104, 145, 162), rgb(12, 97, 33));
}
.thumbnail img
{
	width: 100%;
}
.thumbnail
{
	padding: 0;

}
.thumbnail .caption-full
{
	padding: 9px;
}
.delete-form
{
	display: inline;
}
/* #postimage {
	display: block;
	max-width: 100%;
	height: 600px;
	width: 1000px;
  }
#thumbindex
{
	display: block;
	max-width: 100%;
	height: 200px;
	width: 300px;
} */
.jumbotron
{

	border-radius: 40%;
}
#more:hover,
#more:active,
#more:focus {
    background-color: rgb(12, 97, 33);
}
#postbtn:hover,
#postbtn:active,
#postbtn:focus {
    background-color: rgb(12, 97, 33);
}
```

- **/package.json**

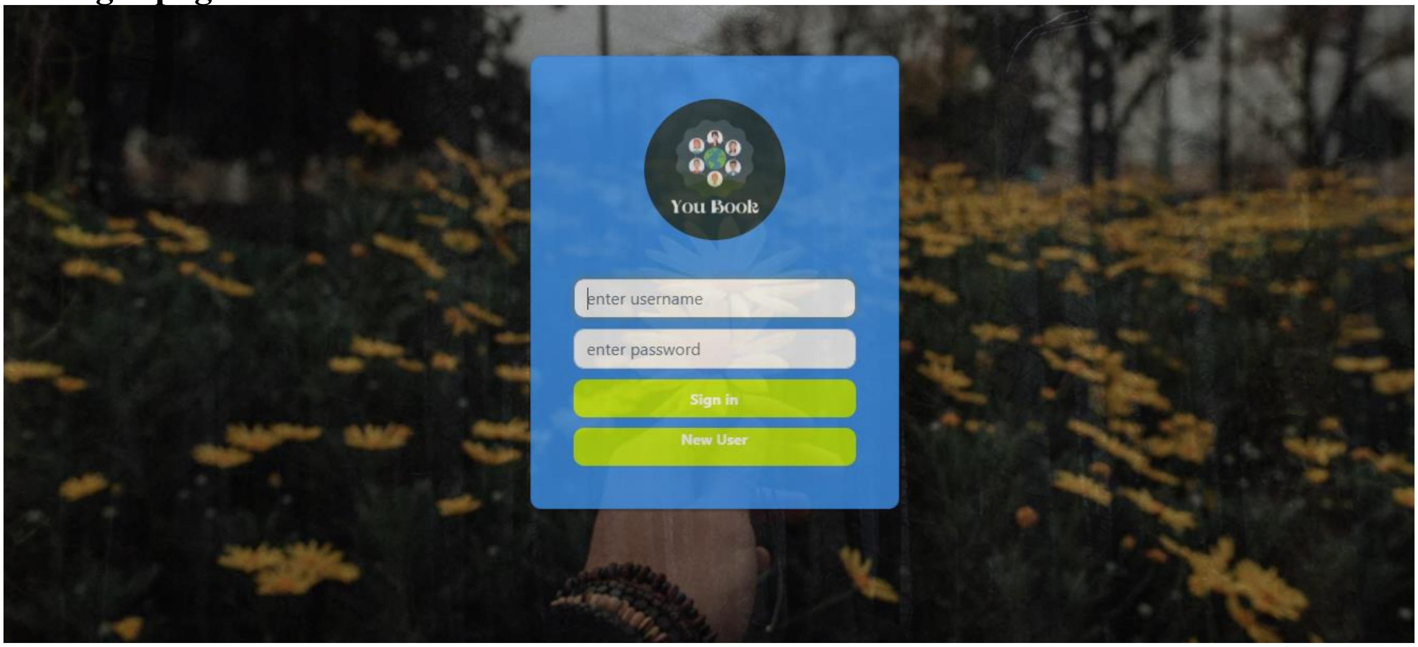
```
{
  "name": "YouBook",
  "version": "1.0.0",
  "description": "Social media/chatroom web application",
  "main": "app.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "node app.js"
  },
  "author": "Shaheryar shaikh",
  "license": "ISC",
  "dependencies": {
    "body-parser": "^1.19.0",
    "connect-flash": "^0.1.1",
    "dotenv": "^8.2.0",
    "ejs": "^3.1.5",
    "express": "^4.17.1",
    "express-session": "^1.17.1",
    "method-override": "^3.0.0",
    "moment": "^2.28.0",
    "mongodb": "^3.6.2",
    "mongoose": "^5.10.4",
    "multer": "^1.4.1",
    "passport": "^0.4.1",
    "passport-local": "^1.0.0",
    "passport-local-mongoose": "^6.0.1",
    "sanitize": "^2.1.0",
    "socket.io": "^3.1.1"
  }
}
```

Result

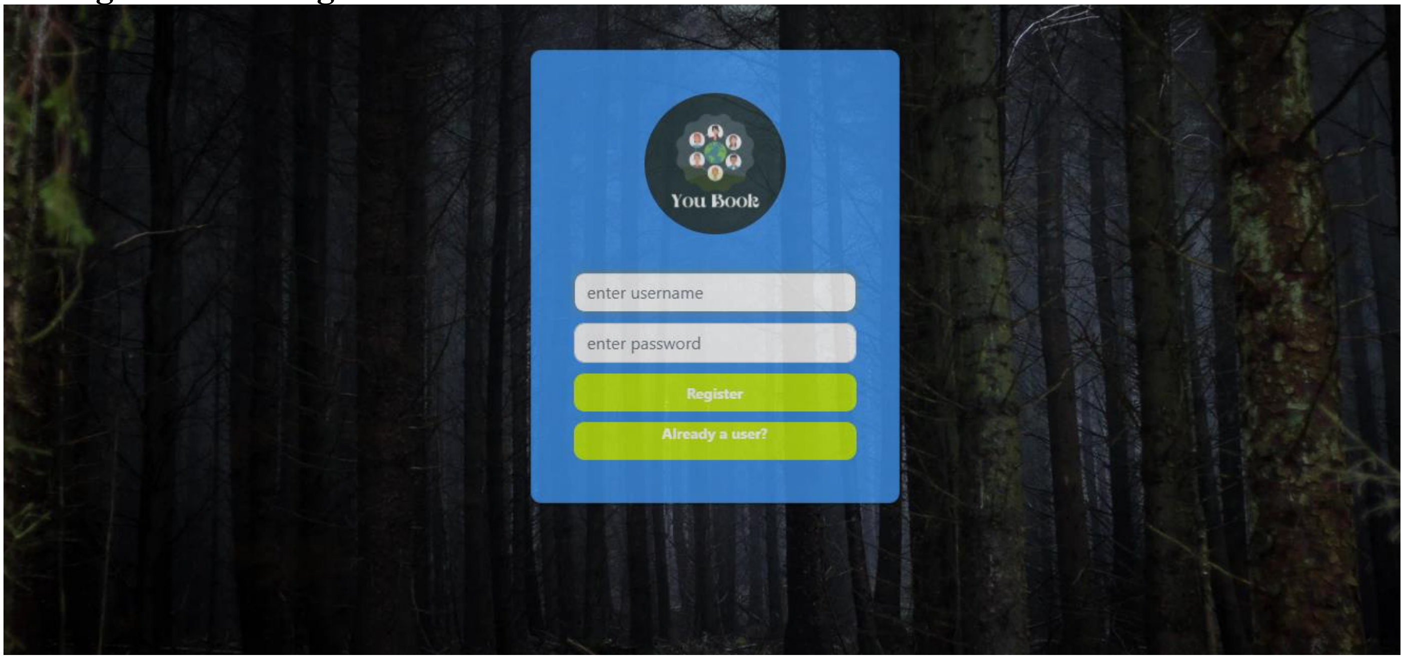
- **Landing Page**



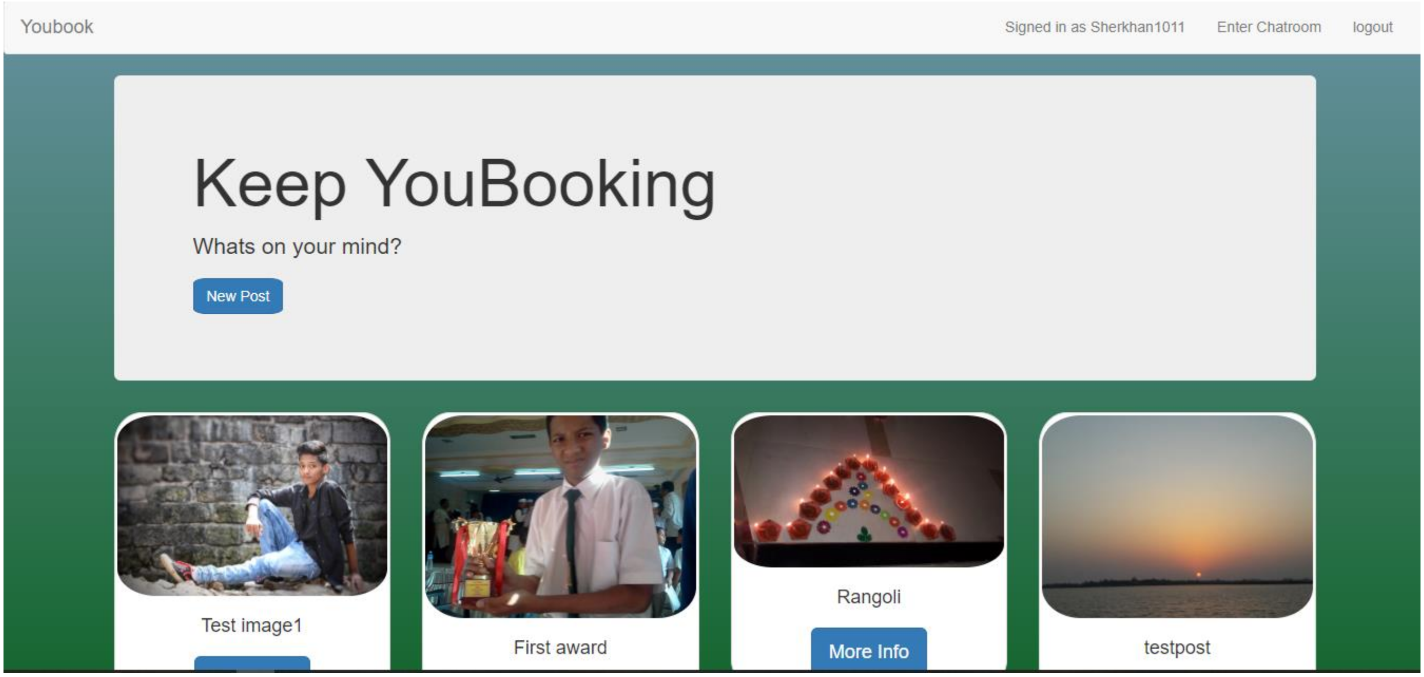
- **Login page**



- **Registeration Page**



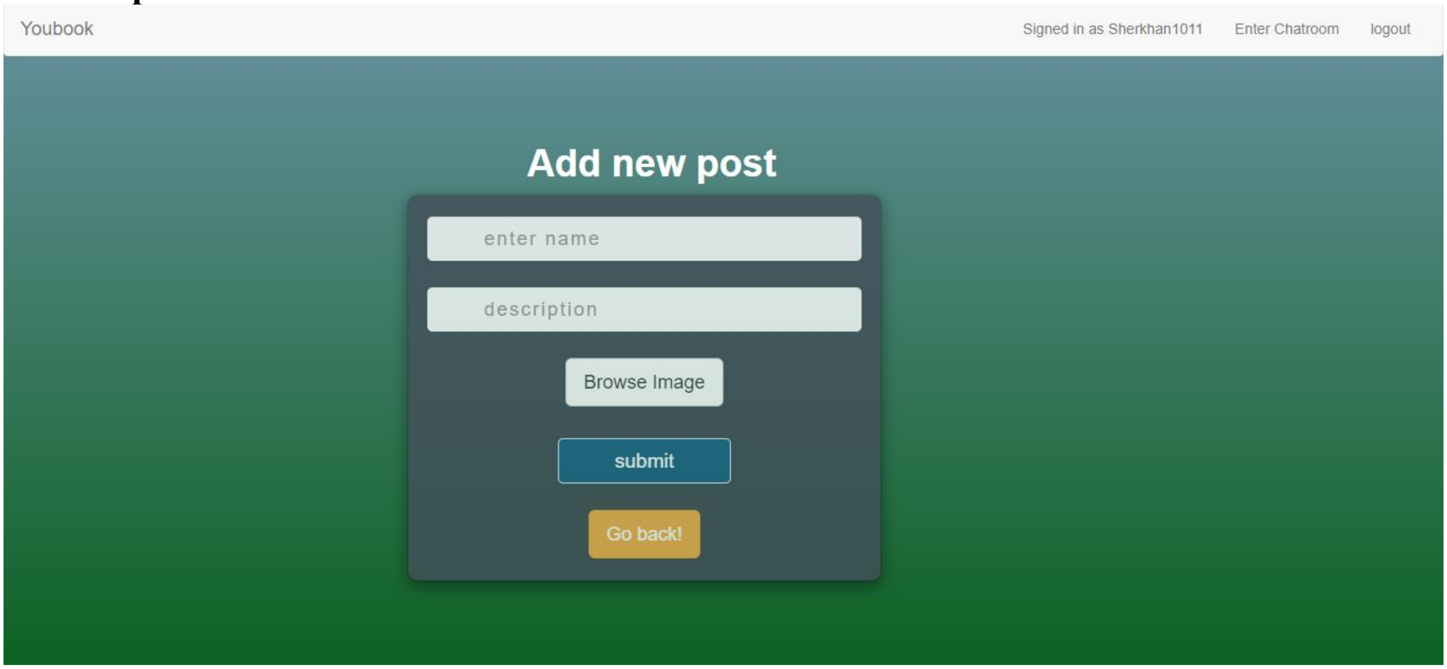
- **NewsFeed**



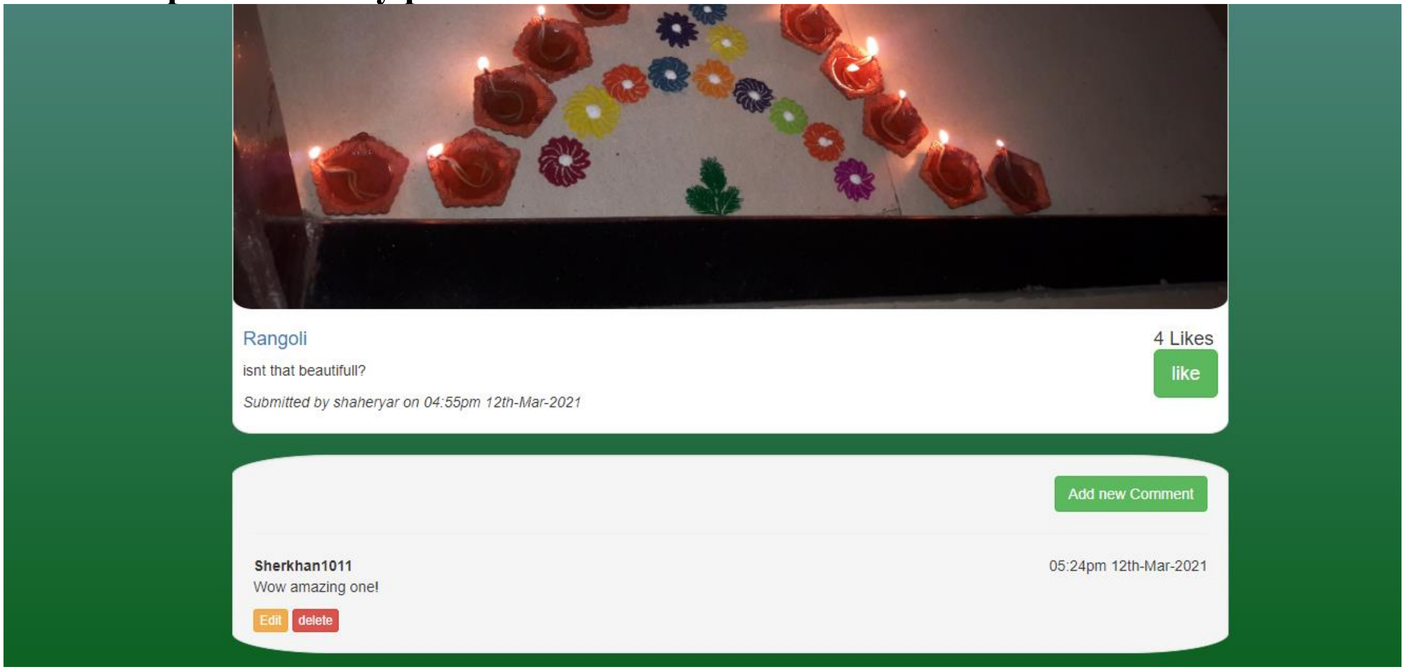
Keep YouBooking

Whats on your mind?

- **New post form**



- **Access post details by post id**



Rangoli

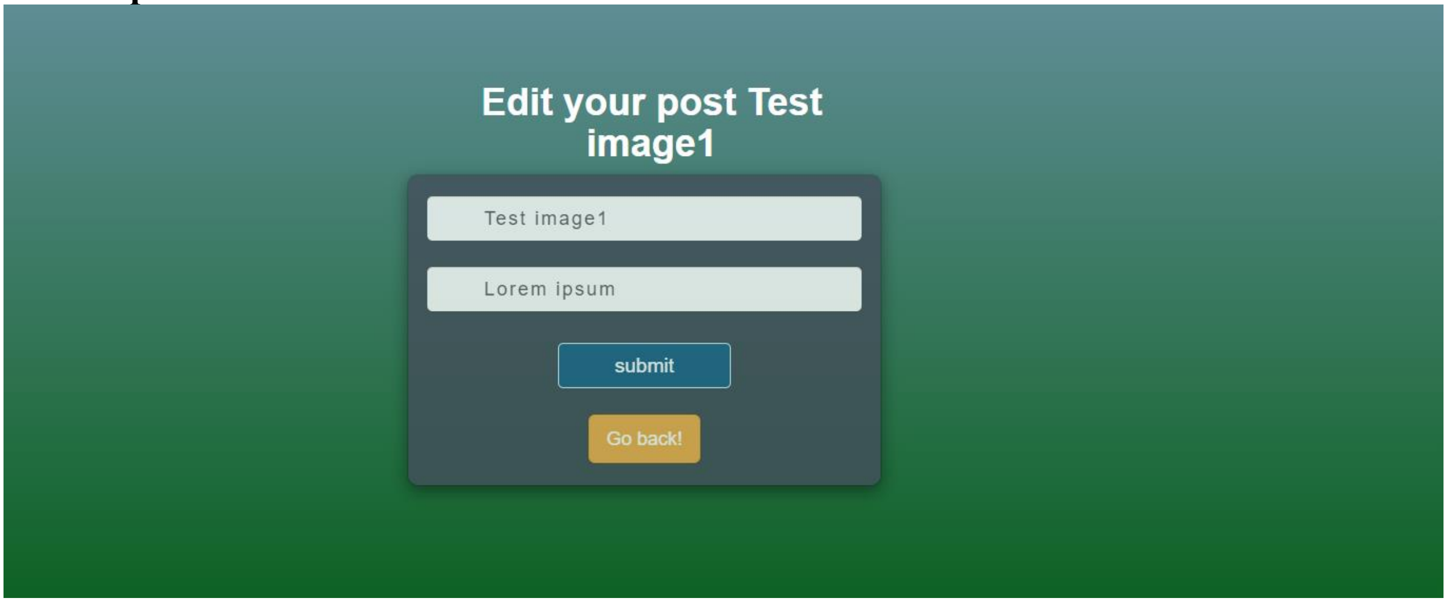
isnt that beautifull?

Submitted by shaheryar on 04:55pm 12th-Mar-2021

Sherkhan1011 05:24pm 12th-Mar-2021

Wow amazing one!

- **Edit post form**

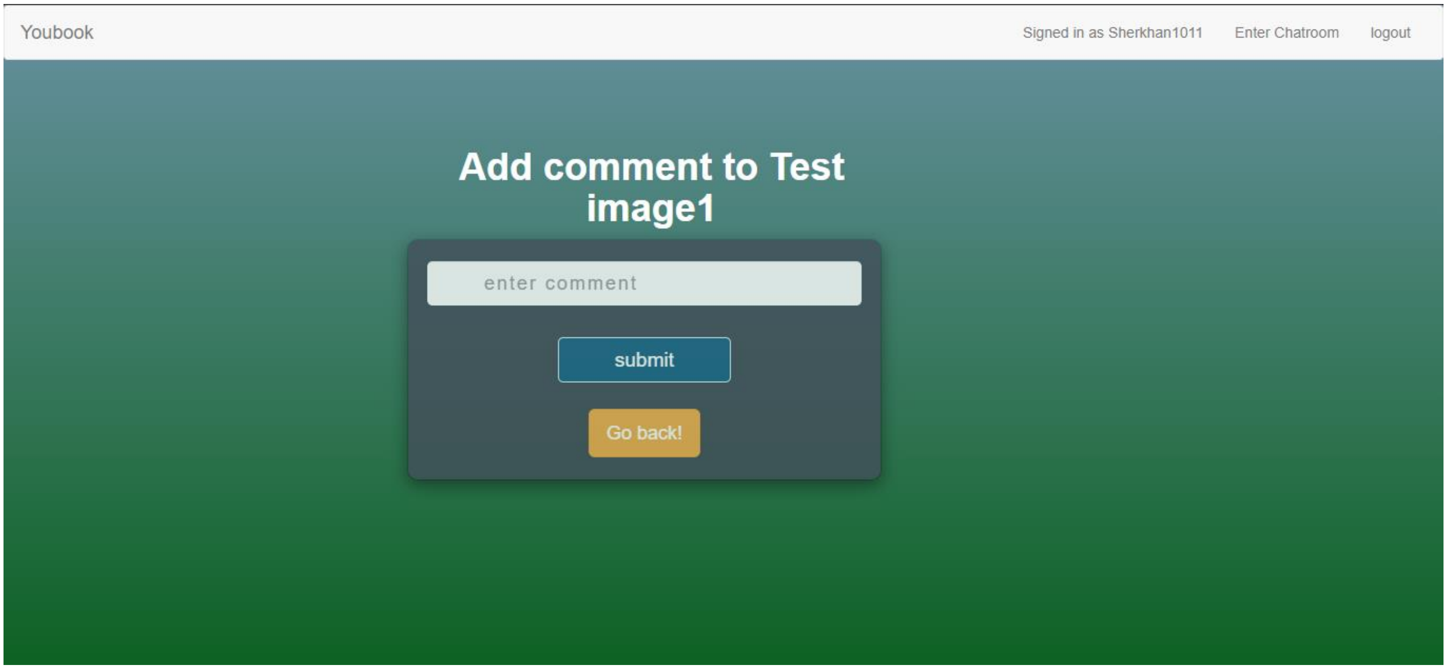


Edit your post Test image1

Test image1

Lorem ipsum

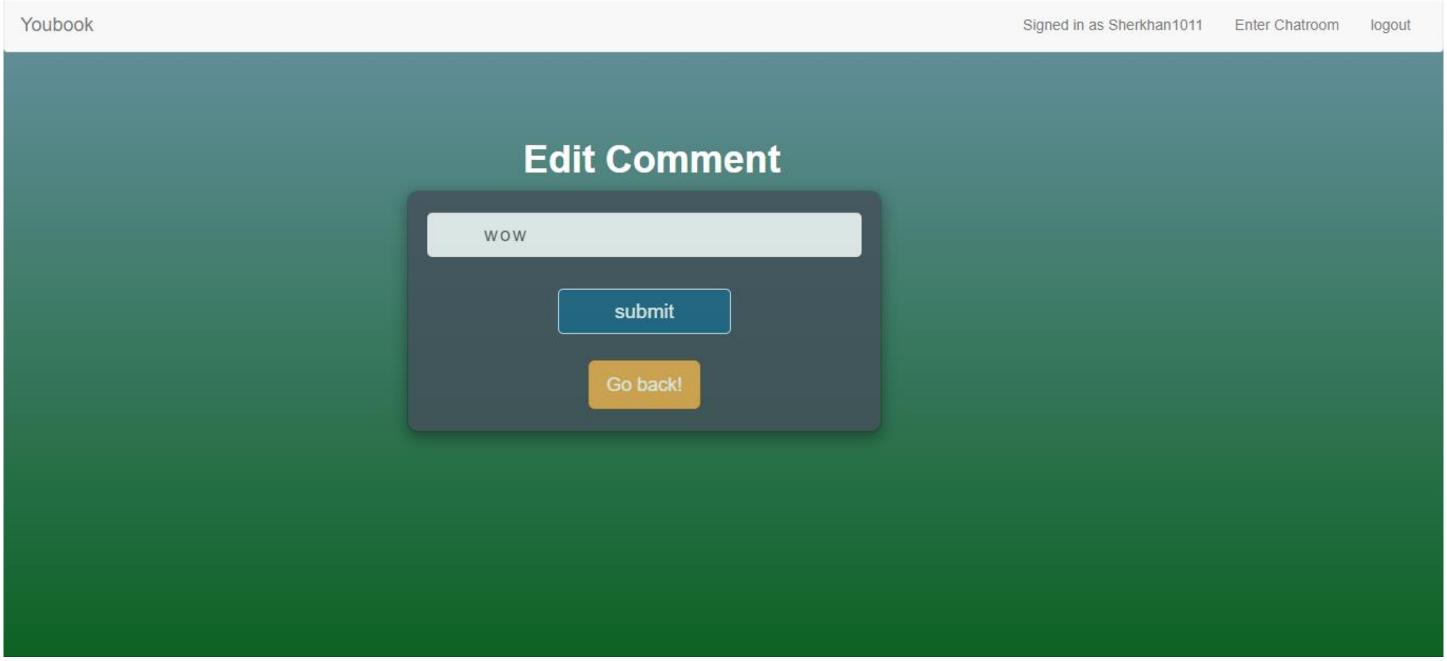
- **Add a new comment form**



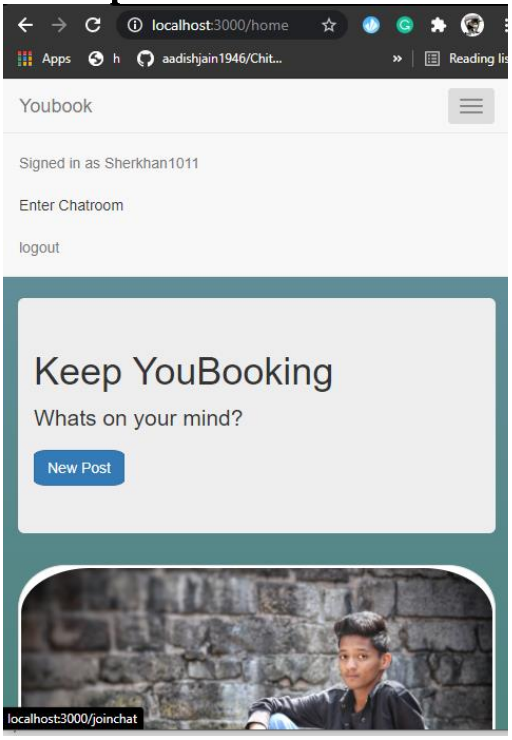
Add comment to Test image1

enter comment

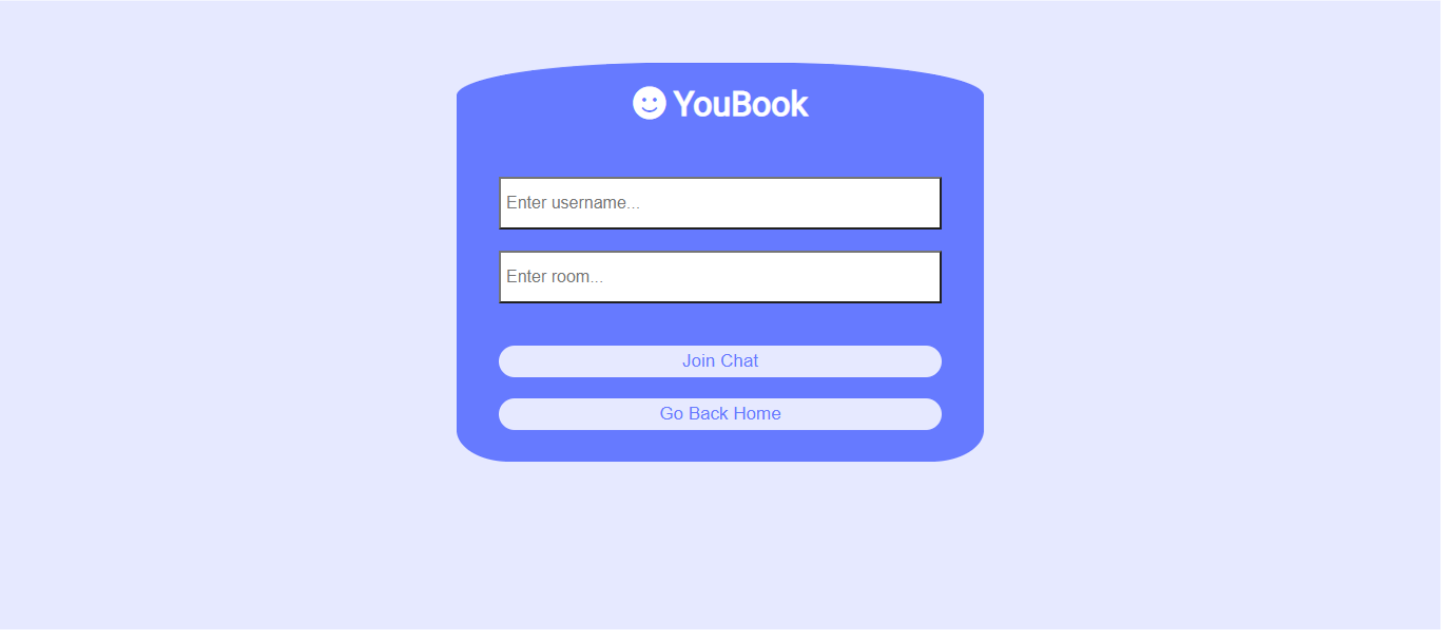
- **Edit comment form**



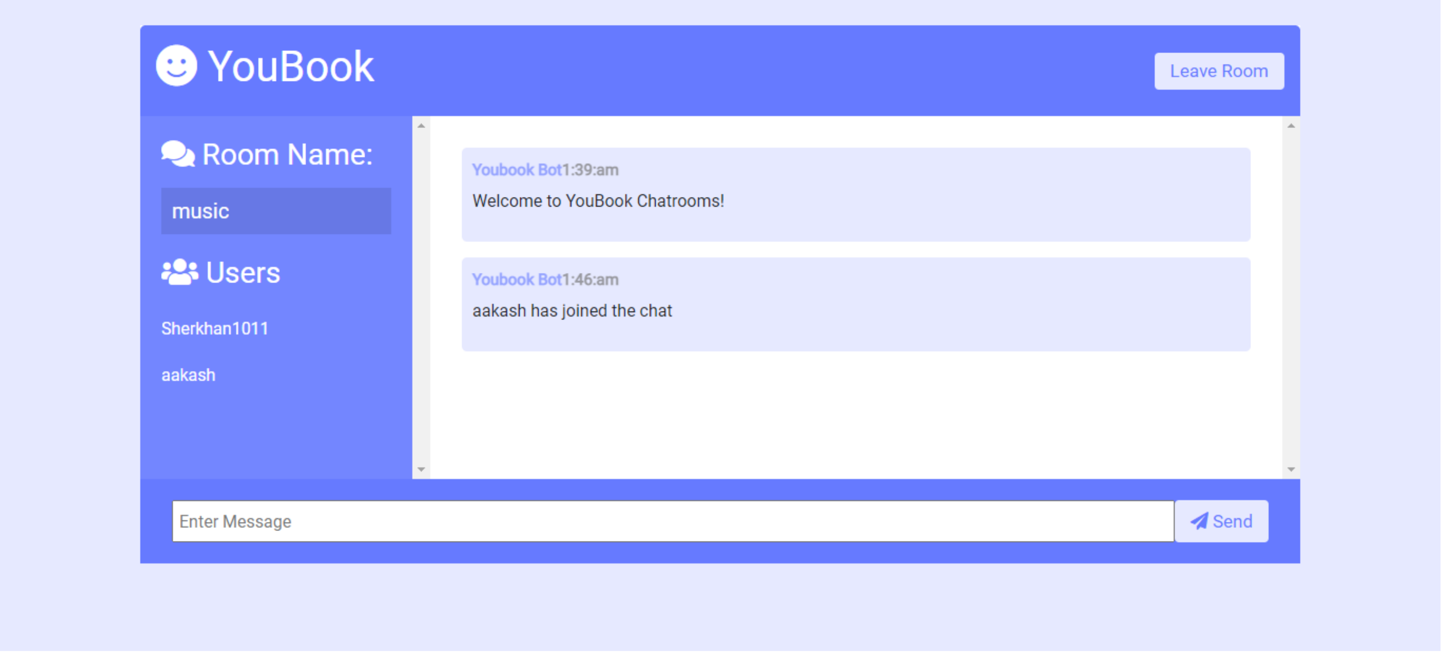
- **Responsive view for Mobile displays**



- **Enter Chatroom form**



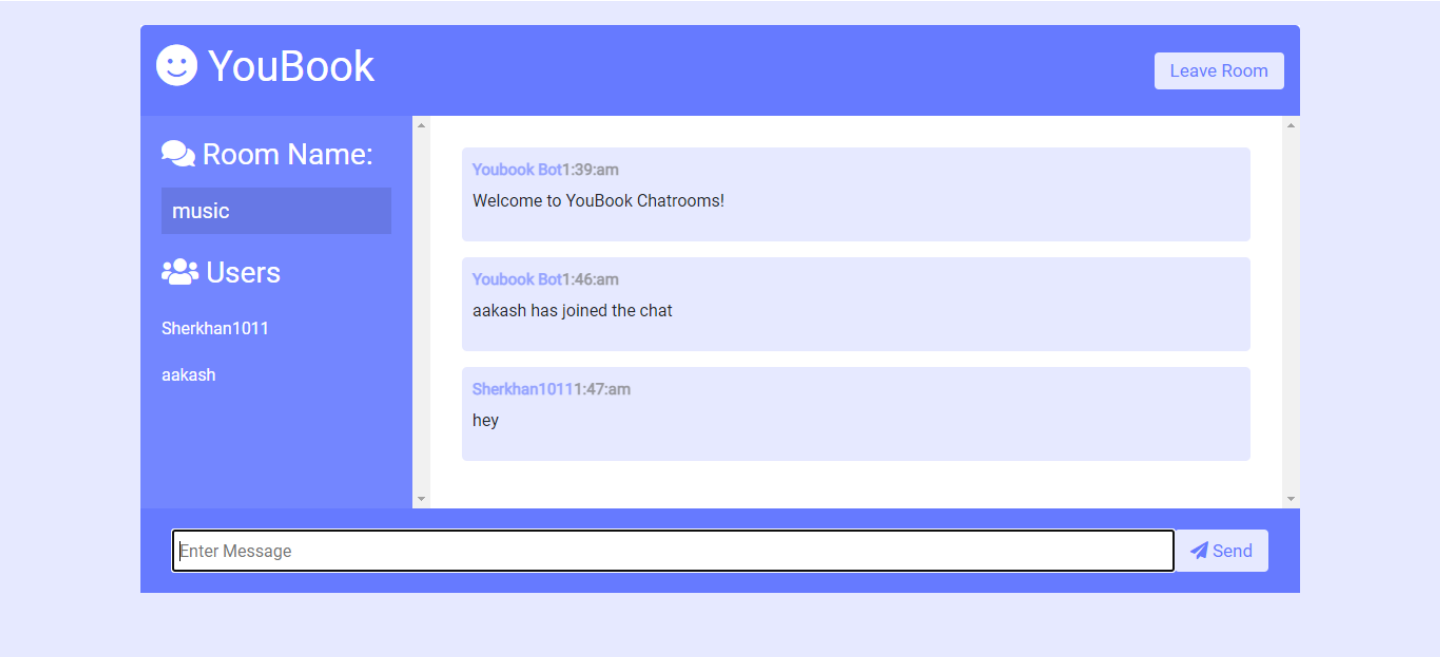
- **Chat window page**



Youbook Bot1:39:am
Welcome to YouBook Chatrooms!

Youbook Bot1:46:am
aakash has joined the chat

- **Message sent by client in chatroom**



Youbook Bot1:39:am
Welcome to YouBook Chatrooms!

Youbook Bot1:46:am
aakash has joined the chat

Sherkhan10111:47:am
hey

Conclusion and Future Scope

- Will be adding features like user profile and also function to follow each other
- Will be adding features like one to one chat
- Will migrate completely from Bootstrap 3.3.5 to Bootstrap 4.
- Will add 24 hr story feature

References

- ***https://stackoverflow.com/***
- ***https://nodejs.org/en/docs/***
- ***https://bootstrapdocs.com/v3.3.5/docs/css/***
- ***https://github.com/***
- ***https://youtube.com/***