

# **IWP J-Component**

**NAMAN AGARWAL - 19BCE1702**

**ABHISHEK SONI – 19BCE1705**

**RISHI MUNGIA – 19BCE1647**

## **Aim of the Assignment:**

- Video chat web application.
- Better attendance system for students.

## **Software Requirements:**

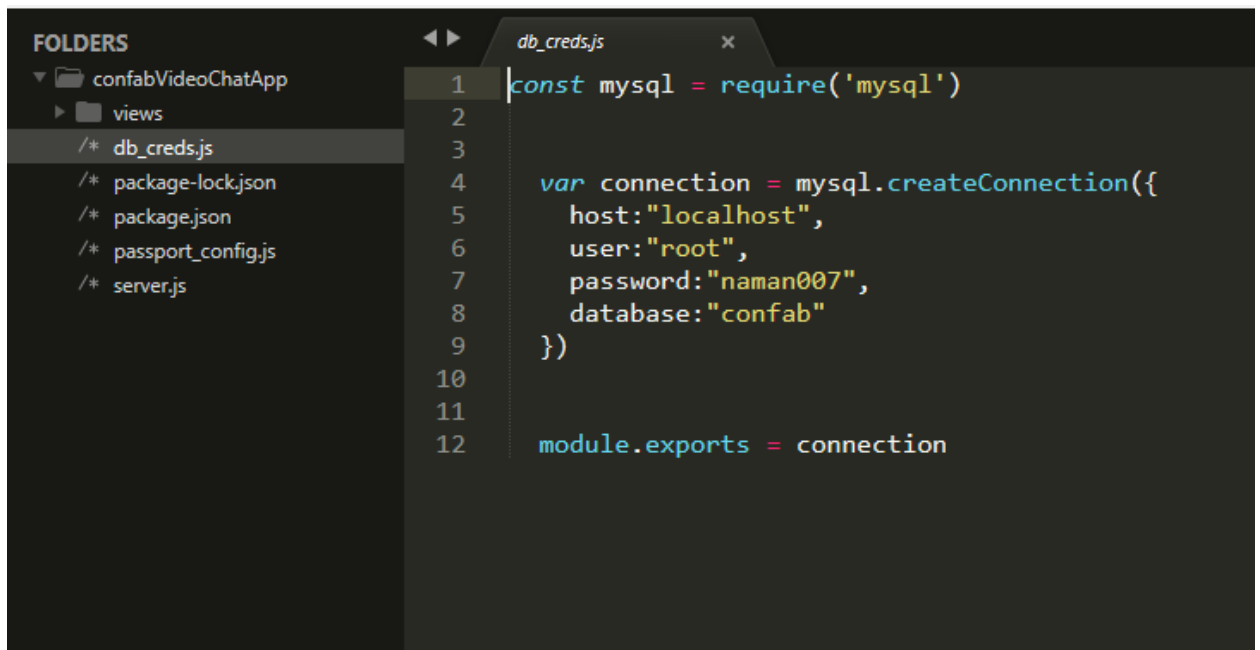
HTML, CSS, JAVASCRIPT, JSON, MONGODB, NODE JS, REACT JS, WEBRTC, EXPRESS JS.

## **Abstract:**

- This Project is a web base application and only a registered user can access this application. Video chat system is developed as it will help the teachers to take online classes or can be used by students for project collaboration.

### Steps to run:

1. **Mailing part setup:** Copy the folder “VideoCallMail” as it is to the public directory of Apache/Ninjnx server (listening on port:80).
2. **Database setup:** import the DB file “localhost.sql” into mysql using phpmyadmin. Since phpmyadmin credentials differ from user to user, set your DB configuration by editing “db\_creds.js” file present inside “confabVideoChatApp” folder. Below is a screenshot of the file



```
FOLDERS
  ▼ confabVideoChatApp
    ► views
    /* db_creds.js
    /* package-lock.json
    /* package.json
    /* passport_config.js
    /* server.js

db_creds.js
1  const mysql = require('mysql')
2
3
4  var connection = mysql.createConnection({
5    host:"localhost",
6    user:"root",
7    password:"naman007",
8    database:"confab"
9  })
10
11
12  module.exports = connection
```

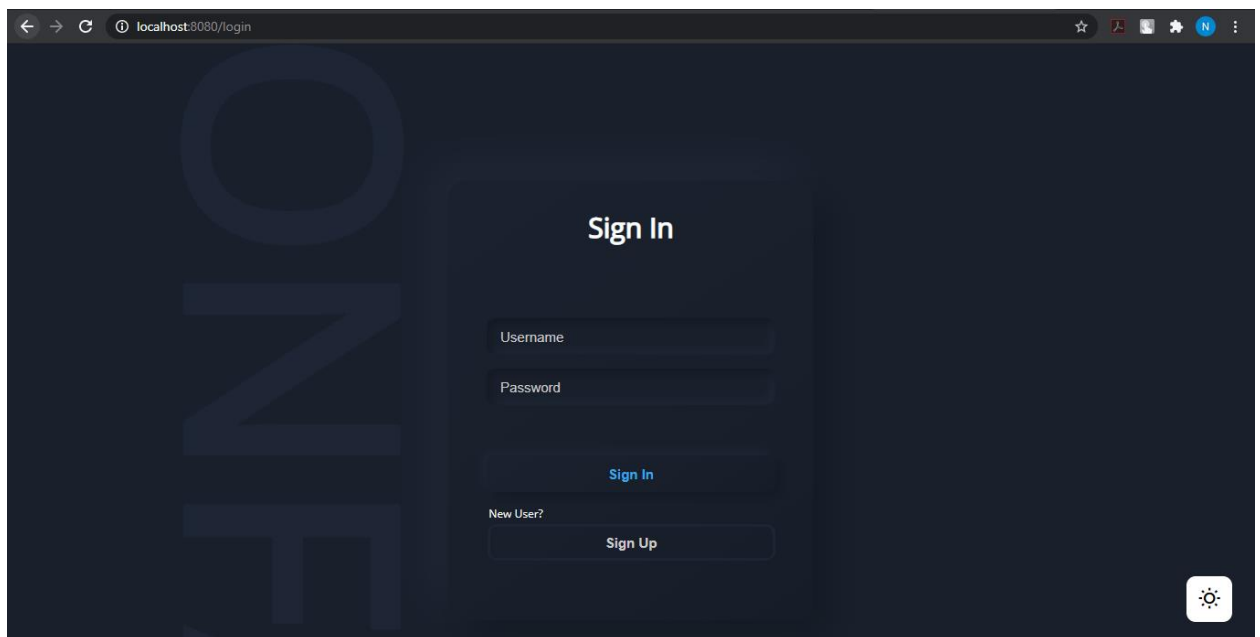
### 3. Node.js setup:

- Copy the “confabVideoChatApp” to any directory of your choice. Ensure Node runtime is installed and added to system path. Open the CMD and change the directory to “confabVideoChatApp” folder.

- Once inside “confabVideoChatApp” run `npm install` in CMD. This command will download all dependencies.
- Next run `npm start` in CMD. This command will start a local server on Port: 8080
- If database is setup properly it will display “connected” in CMD.

### Use the App:

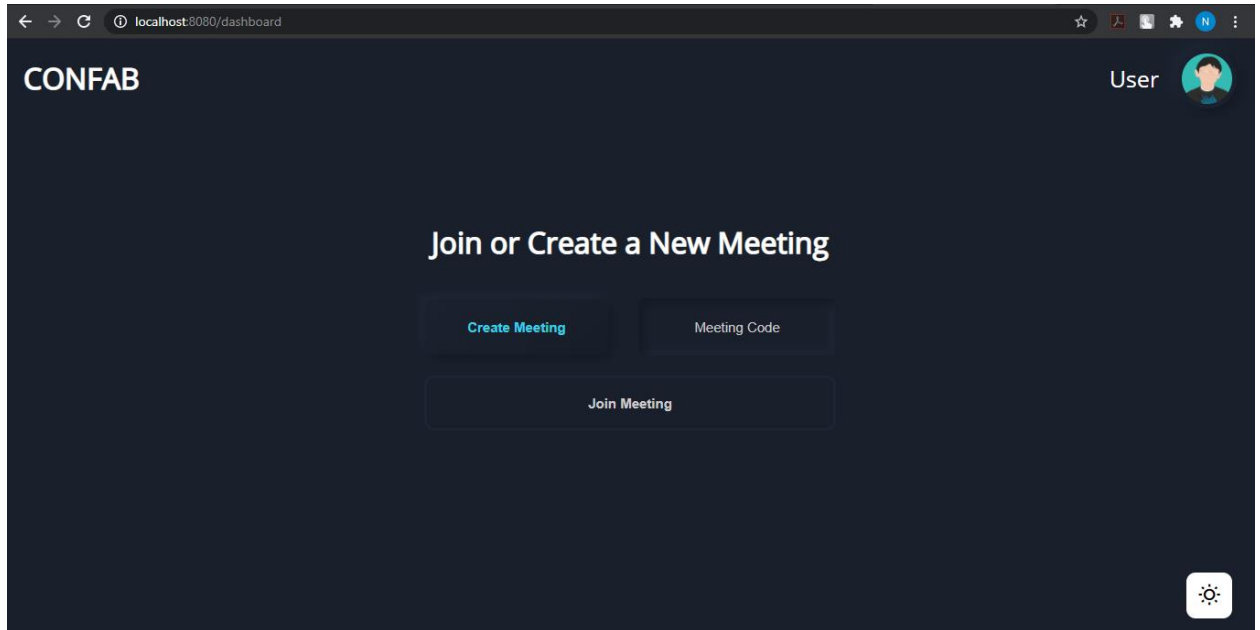
- If every thing is setup properly, go to “localhost:8080” and it will redirect to Login Page as shown below –



### Steps to Login:

- Press Signup and make account to login or use the credentials provided below
- Login credentials :  
Username : divine@naman  
Password: naman007

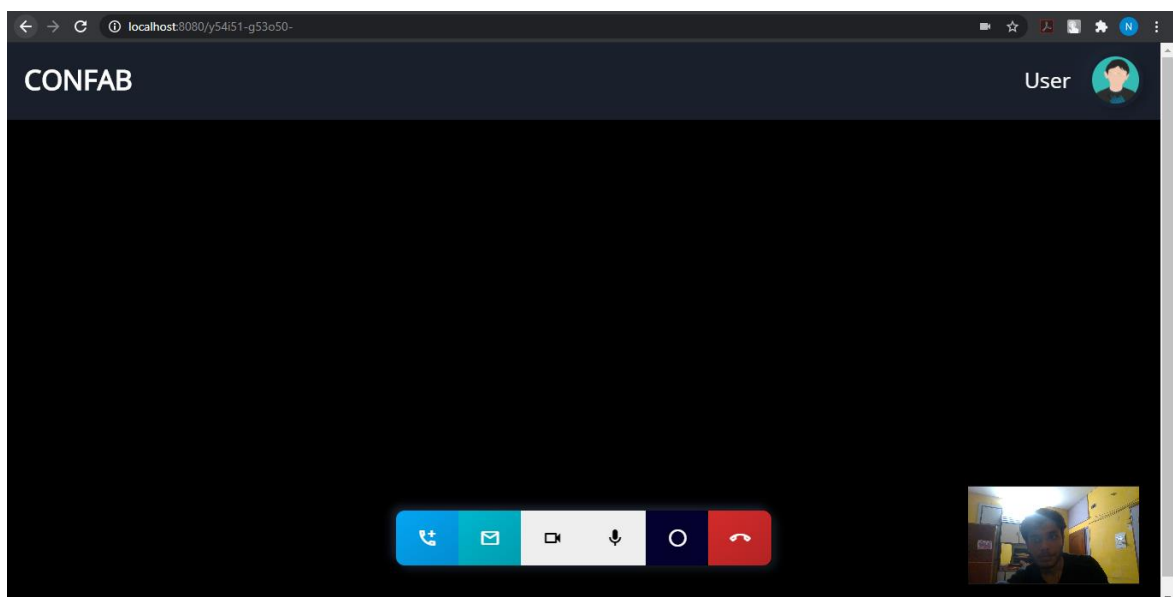
- After successful login the window is redirected to dashboard:



In dashboard:

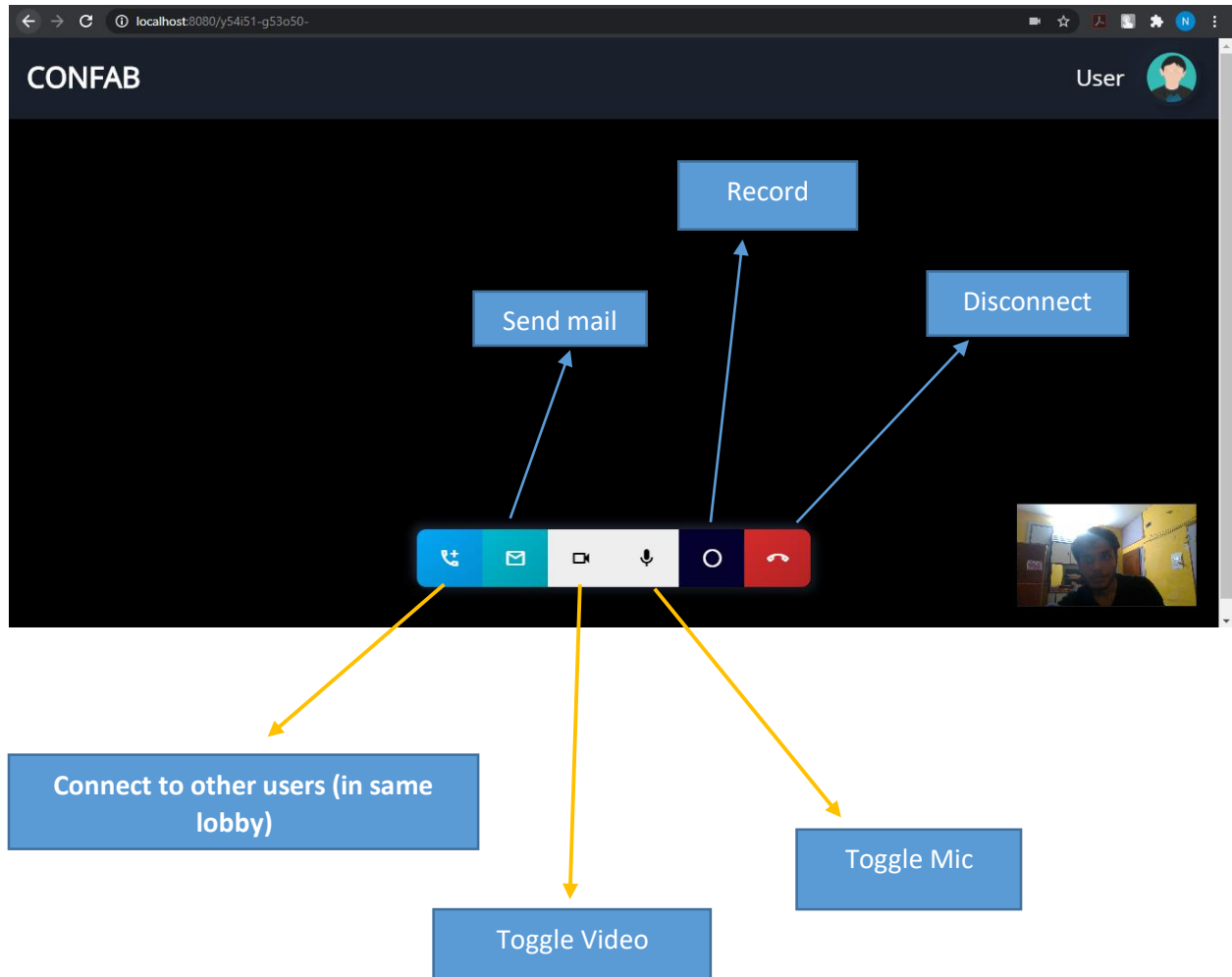
- Create a meeting or,
- Enter code of existing meeting

After success the window is redirected to meeting lobby:



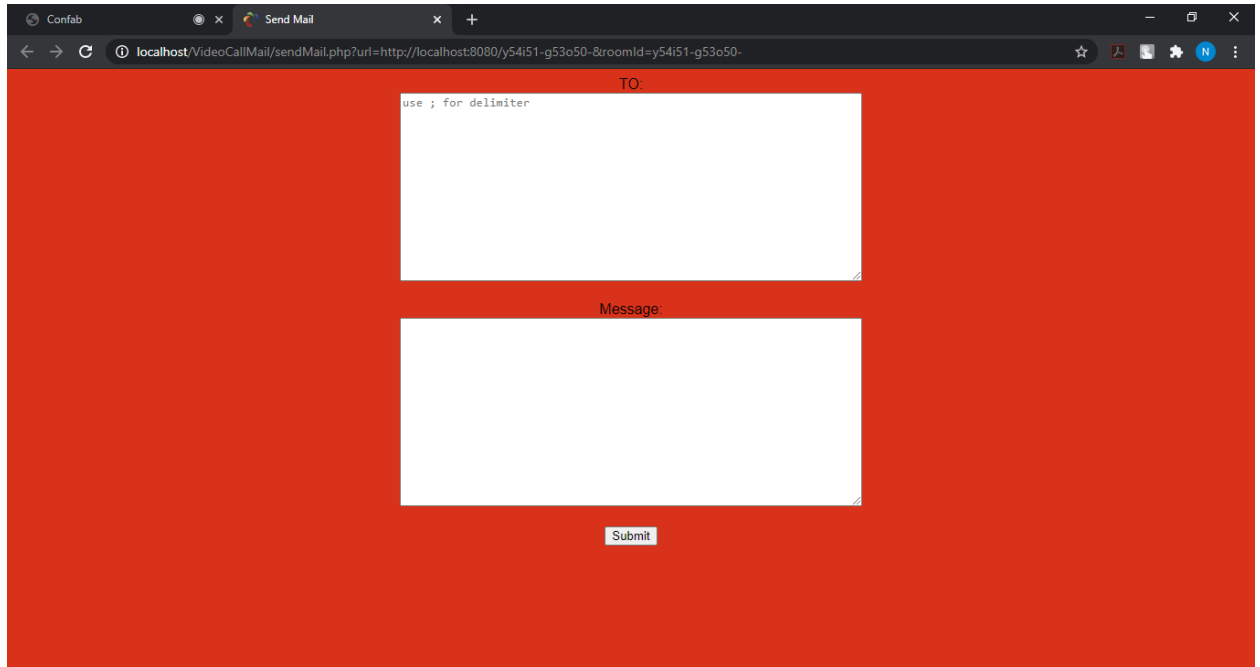
To start Video chat:

- Repeat the above steps in another browser window
- When redirected to dashboard enter the existing meeting code present in URL or use the mail facility shown below:



## Mail Part:

- When mail button is clicked, a new window is opened as shown below:



The screenshot shows a web browser window with the title 'Send Mail'. The address bar displays the URL: `localhost/VideoCallMail/sendMail.php?url=http://localhost:8080/y54i51-g53o50-8zroomId=y54i51-g53o50-`. The page has a solid red background. In the center, there are two white text input fields. The top field is labeled 'TO:' and contains the text 'use ; for delimiter'. The bottom field is labeled 'Message'. Below these fields is a small 'Submit' button.

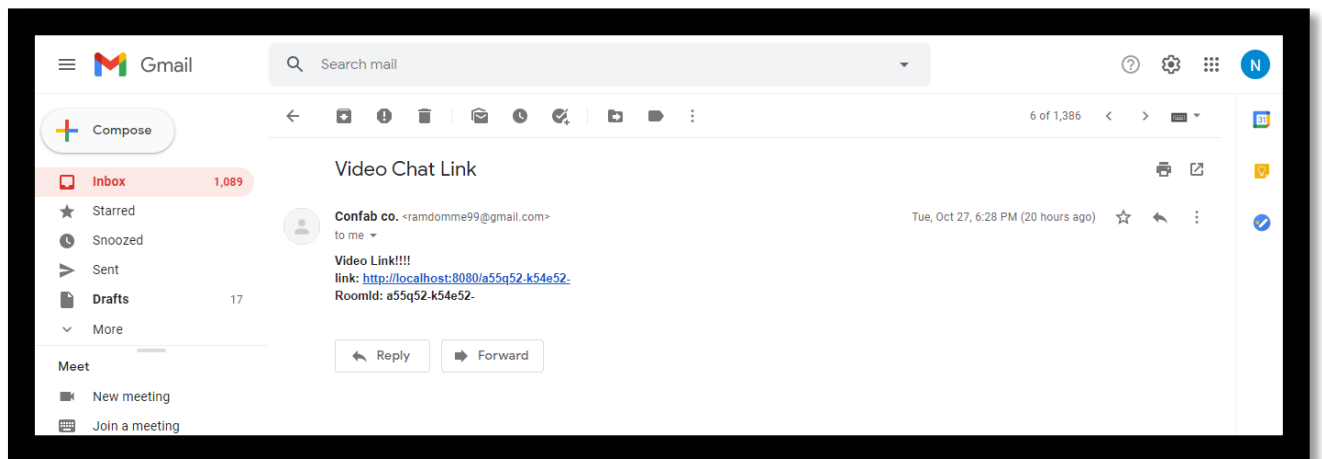
Add email to send mail to.

Add message to send.

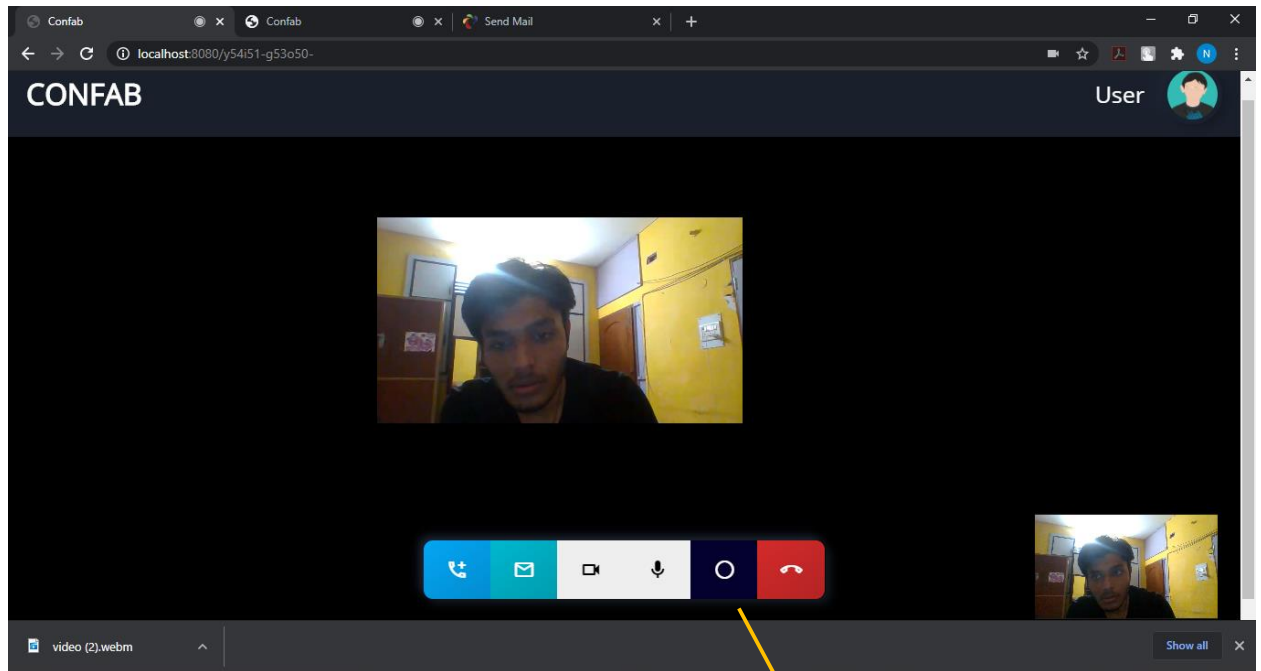
The mailing part automatically sends meeting link and code along with the message provided above.

# New Features added :

- Mailing system now sends both meeting link and code automatically.



- **Recording feature added: user can record his video and the video is downloaded as soon as the user stops recording**



RECORDED VIDEO  
DOWNLOADED

USE THIS BUTTON  
TO TOGGLE  
RECORDING



