

INTERNSHIP: PROJECT REPORT

Internship Project Title	Event Management in Tourism and Hospitality Industry
Name of the Company	TCS iON
Name of the Industry Mentor	Vinayak Bandyopadhyay
Name of the Institute	Sri Sivasubramaniya Nadar College of Engineering

Start Date	End Date	Total Effort (hrs.)	Project Environment	Tools used
22-07-2020	14-10-2020	210	Node.js, HTML, CSS, JS, MongoDB Atlas	Atom, Hyper, MongoDB cloud

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Acknowledgements

I would like to thank TCS iON for this wonderful learning opportunity and experience. I would also like to thank my academic mentor Dr. Lokeswari Y V, Associate Professor, Department of CSE, SSN College of Engineering for her constant motivation and support. I am thankful to my parents who encouraged me to do this project.

Objective

The main objective is to develop a website for “Event Management in Tourism and Hospitality Industry”. Other objectives include creating various modules such as:

- Login
- Services
- Memberships
- Testimonials
- Event booking
- Advertising
- Viewing events
- Viewing bookings

Introduction / Description of Internship:

The internship which I have taken is TCS iON RIO-210 to develop an online website for “Event Management in Tourism and Hospitality Industry”. The internship is very structured and the progress is monitored everyday via the Activity Reports. The digital discussion room is a great platform for discussion. The 20-hour Industry Skill and the webinars were very useful.

Internship Activities:

Internship activities include:

- Collecting project references
- Designing the website
- Coding
- Code refactoring
- Bug fixing
- Optimizing the code
- Watching recorded webinars
- Learning industry skills
- Preparing activity report
- Discussing in the digital discussion room
- Taking up project test
- Viva

Approach / Methodology

A systematic approach is required for the correct and consistent completion of any project.

Exploring project reference material:

There were various project reference materials given. I read and understood all the reference material given. This gave me a deep insight into the “Event management in Tourism and Hospitality Industry”. Understanding the workings and operations of this industry is crucial in developing this domain-specific website.

Collecting reference material:

The given reference material is just not enough to gain a deep insight into the requirements of this project. So, additional reference materials need to be collected and studied.

Project expectations and constraints:

Review and consolidate all the project specifications and constraints so that the customer satisfaction and all requirements are met.

Enumerate core functionalities:

List all the core functionalities so that more time and effort can be put into meeting the core requirements of the project.

Explore example websites:

Look at various example websites from the internet and gain insight regarding the functionalities included in it.

HTML, CSS, JavaScript:

Use HTML, CSS, JavaScript to create the website.

Choose backend database:

Choose an appropriate backend database like MongoDB Atlas to store all the data.

MongoDB Atlas server:

Learn to access data in MongoDB Atlas server from web application and to load data from MongoDB Atlas server to web application.

Install node.js packages:

Install all the required node.js packages.

OAuth authentication:

Enable login using **OAuth 2.0** which is basically signing in with google mail id. Also, store the user credentials in MongoDB.

Adopt Embedded JavaScript (EJS):

Utilize EJS to load dynamic content rather than static content from html pages. Render dynamic content using EJS loaded from MongoDB during run time. EJS can be used to interactively respond to invalid credentials in login pages.

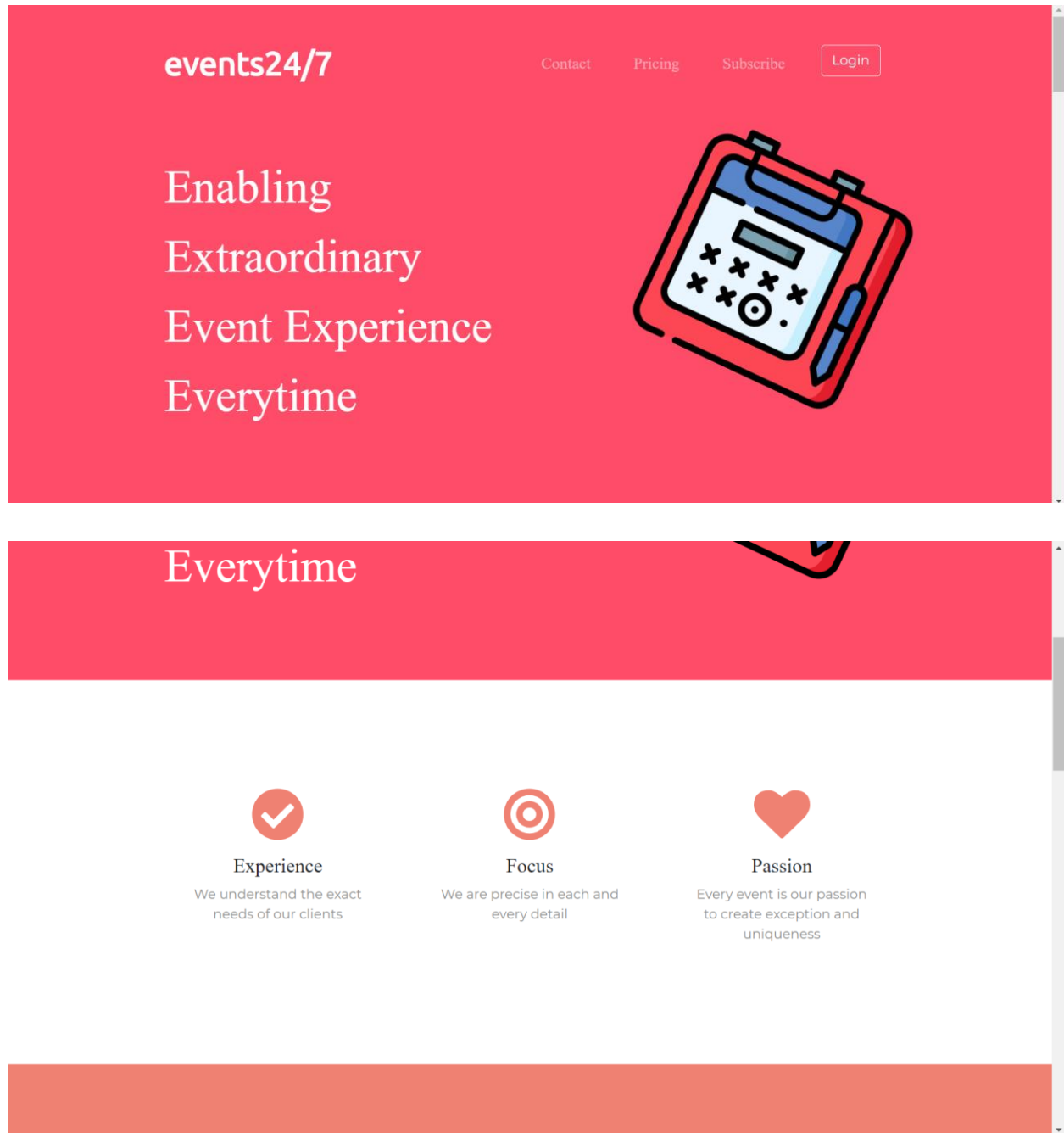
Routing:

Enable routing to individual web pages in the web application for ease of access and better navigation.

Assumptions:

It is assumed that the server is locally hosted. This can also be hosted in the internet using special software.

Screenshots:



"Thank you very sincerely for your expert services in the production of the Roundtable's Summer Celebration. To say that "we couldn't have done it without you" is a gross understatement... and you can quote me on that!"



Devi, Chennai

A Plan for Everyone's Events

Simple and affordable price plans just for you.

file:///C:/Users/Lakshmi Priya/Desktop/events24_7/index.html#testimonial-carousel

Membership Plan for Everyone's Events

Avail exciting membership discounts

Silver

₹10,000 / year

Discount on upto 10 hours of event coverage

2 gift prints

Limited benefits

Gold

₹25,000 / year

Discount on upto 30 hours of event coverage

3 gift prints

Moderate benefits

Platinum

₹50,000 / year

Discount on upto 60 hours of event coverage

4 gift prints

Great benefits

Digital Photo Album

Services



Event Management

[Know more](#)



Destination Expertise

[Know more](#)



Multimedia Support

[Know more](#)



Entertainment

[Know more](#)



Transfer Arrangement

[Know more](#)



Manpower Support

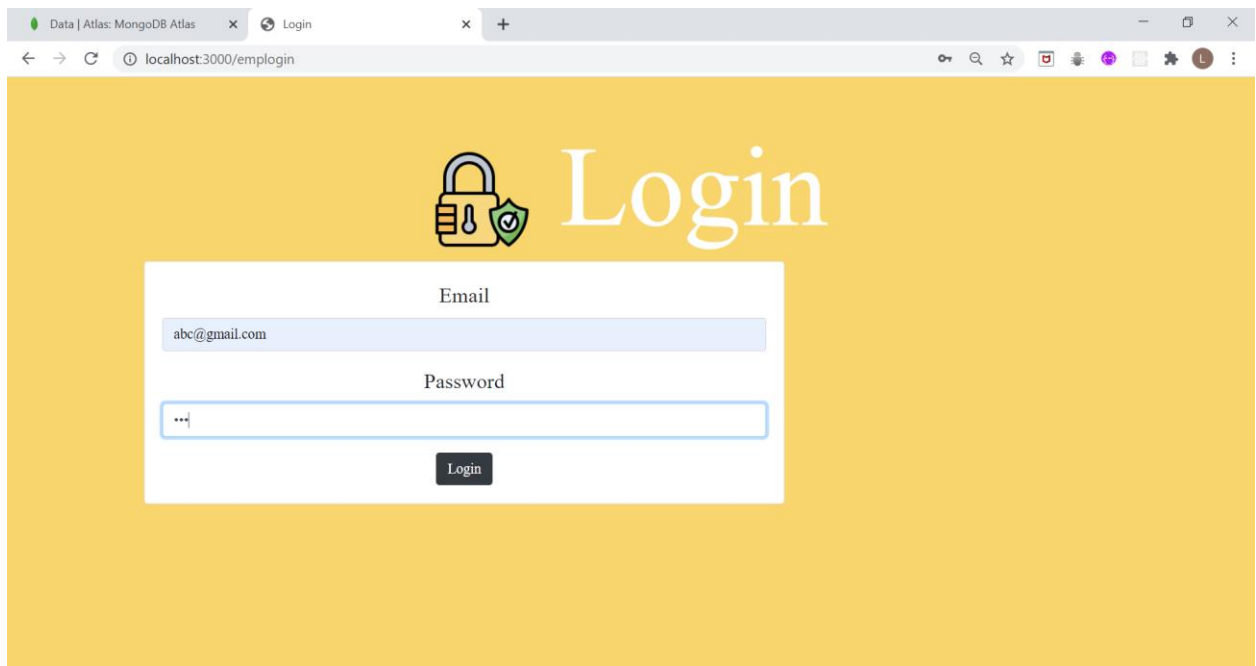
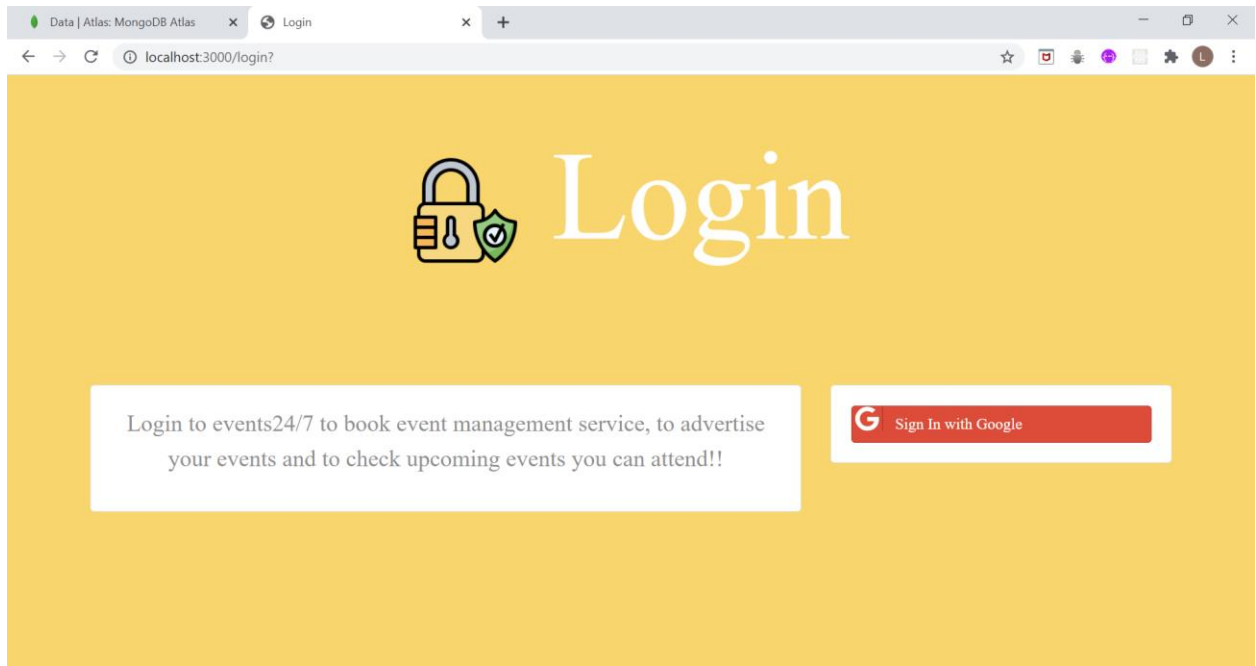
[Know more](#)

Immersive conference, memorable
themed party, interactive exhibition..
As long as you name it, we got it..

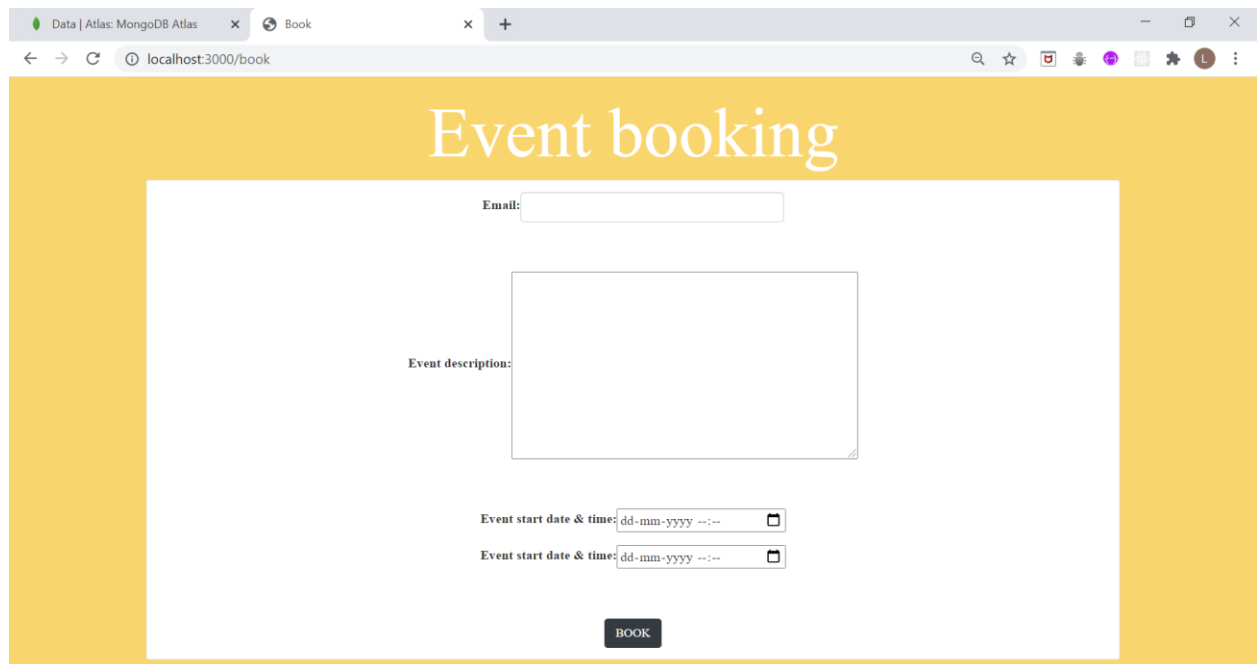
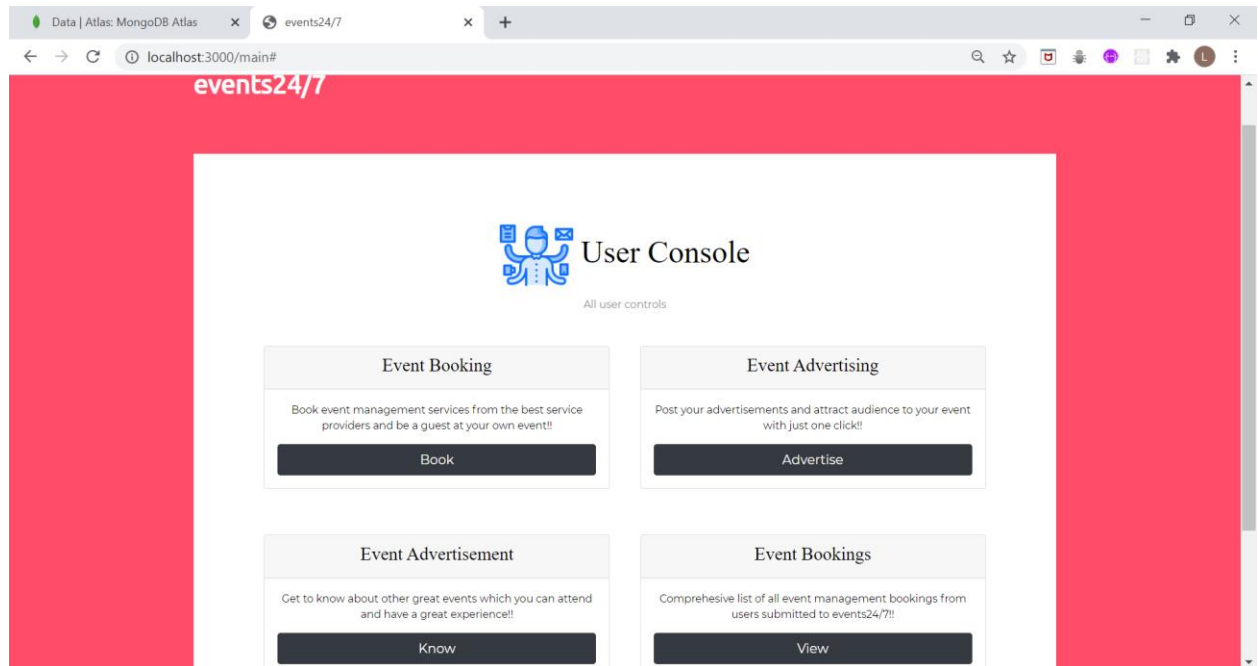


© Copyright 2018 events24/7

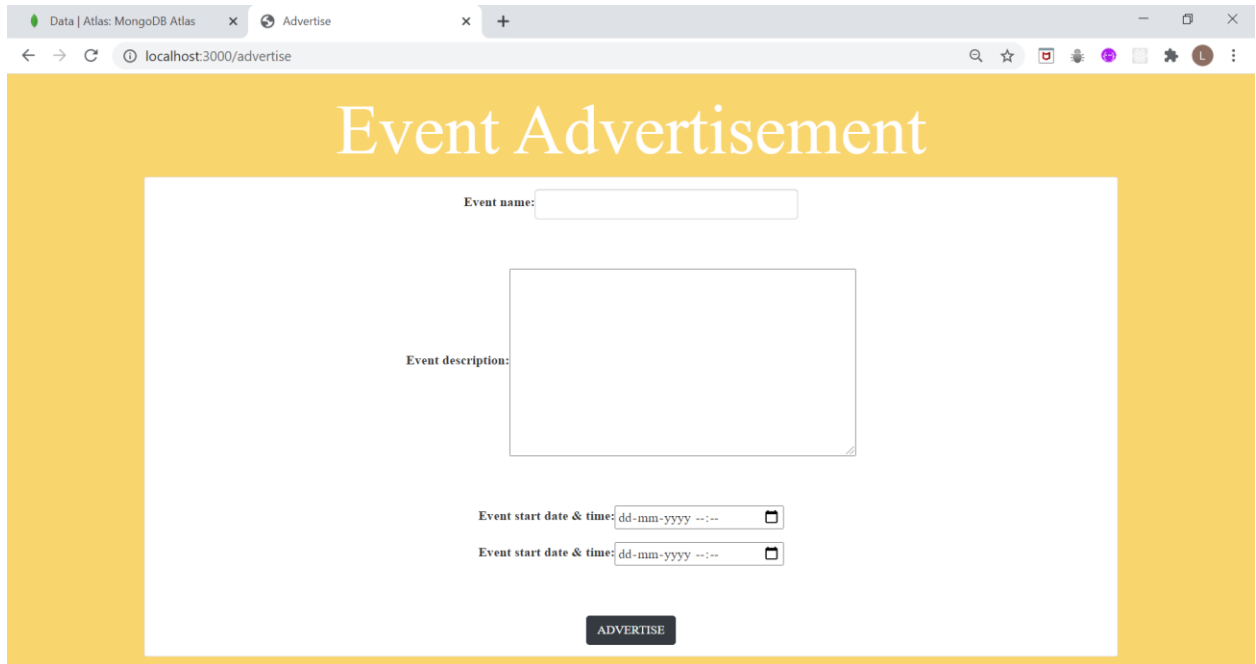
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Event Advertisement

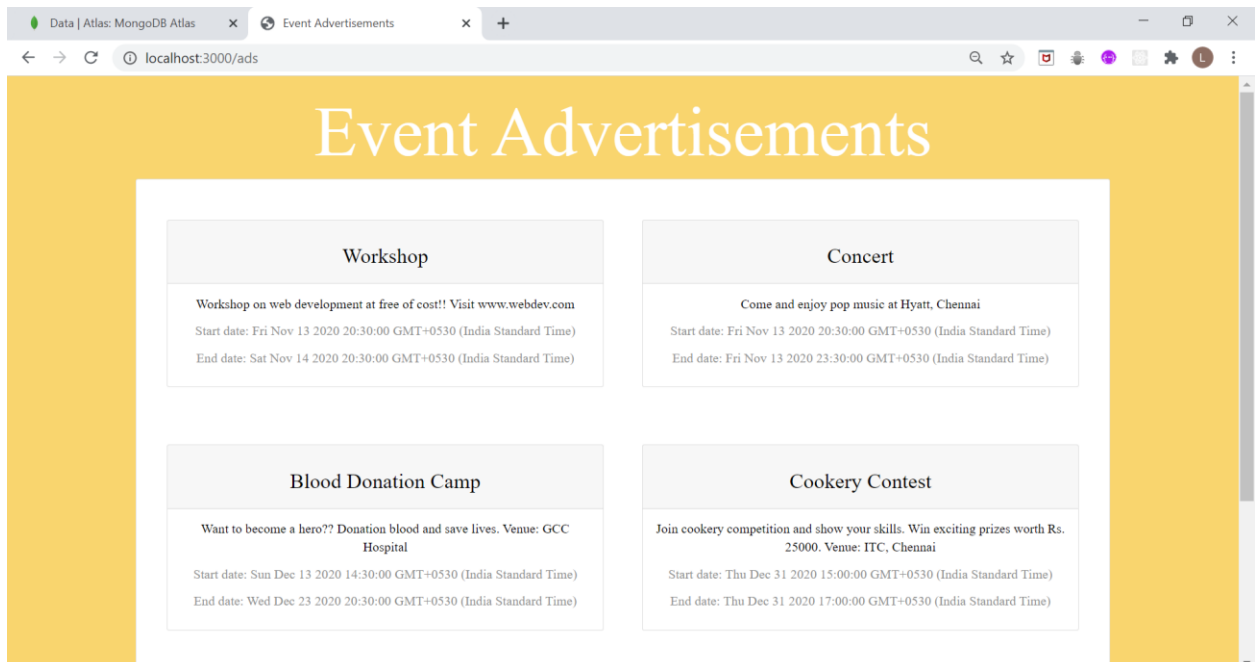
Event name:

Event description:

Event start date & time:

Event start date & time:

ADVERTISE

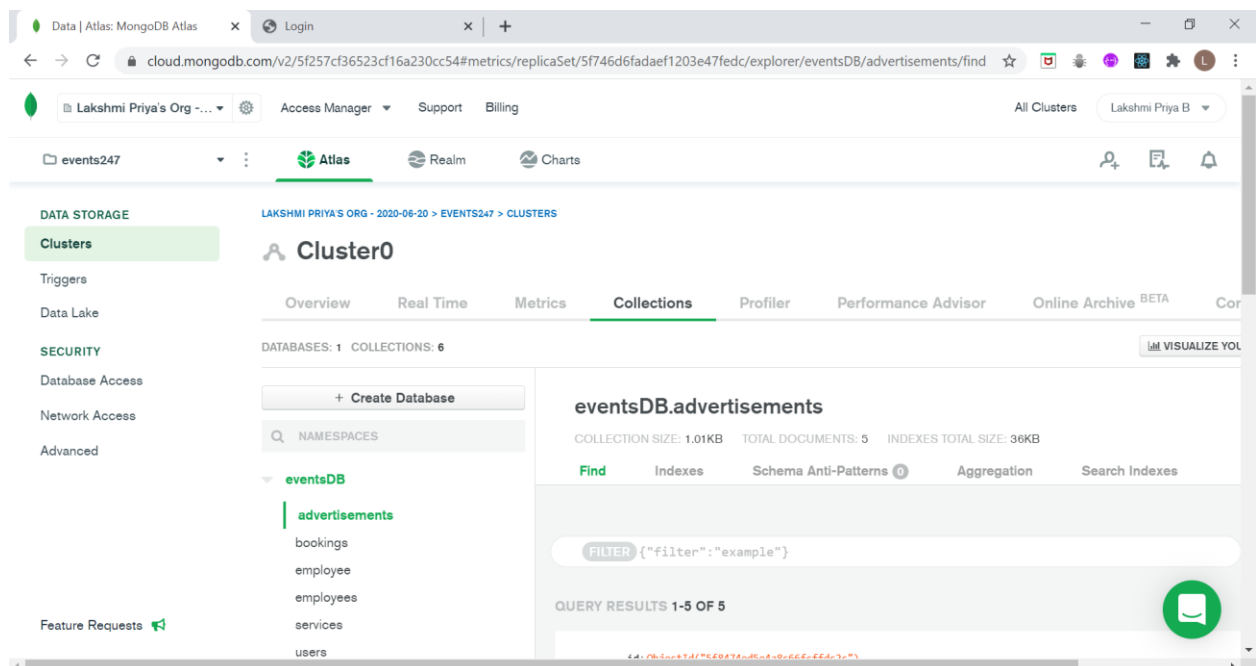
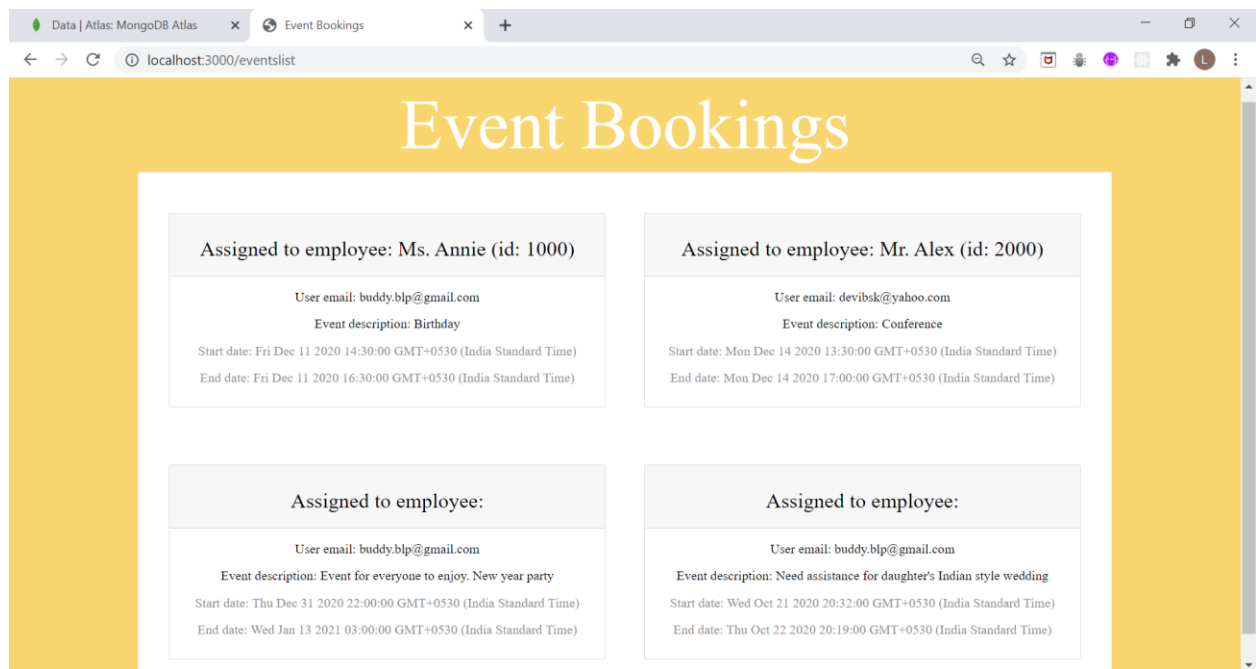


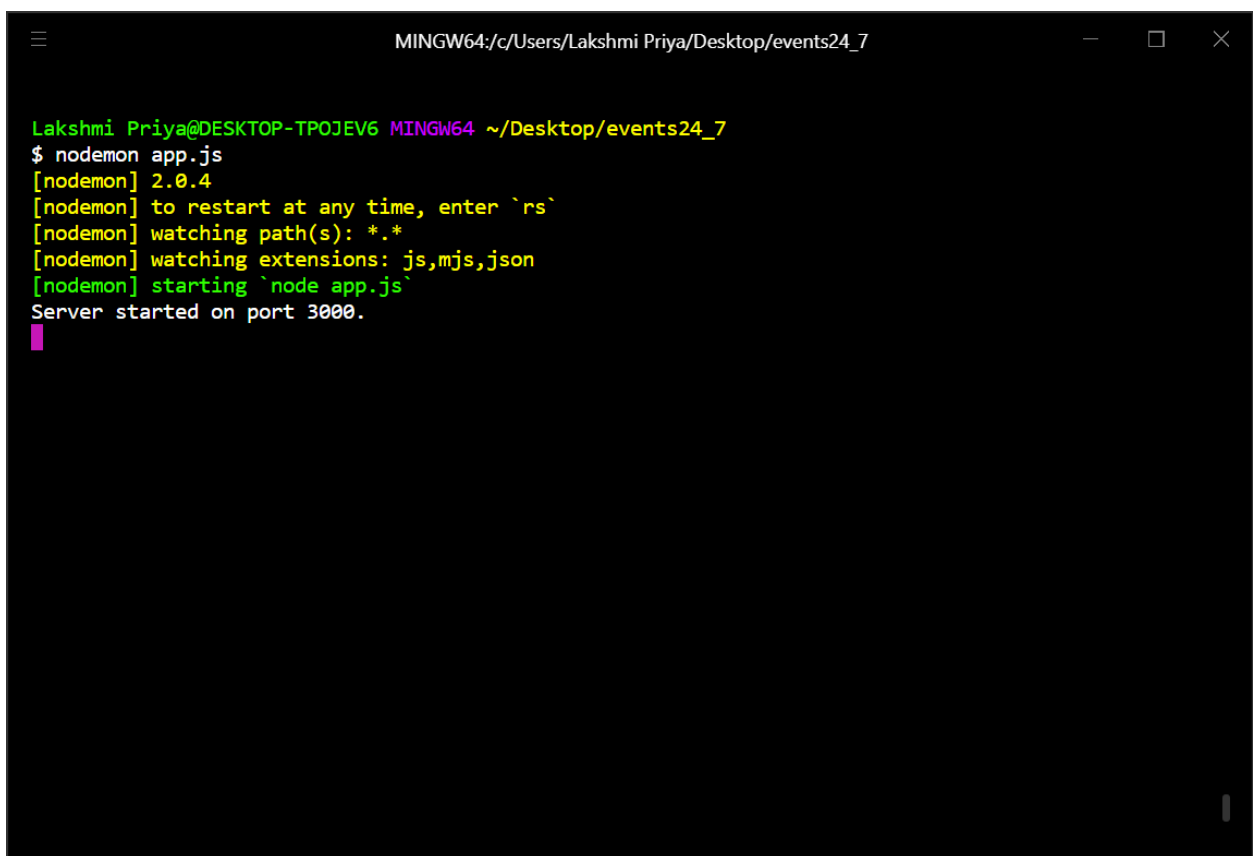
Event Advertisements

Workshop	Concert
Workshop on web development at free of cost!! Visit www.webdev.com	Come and enjoy pop music at Hyatt, Chennai
Start date: Fri Nov 13 2020 20:30:00 GMT+0530 (India Standard Time)	Start date: Fri Nov 13 2020 20:30:00 GMT+0530 (India Standard Time)
End date: Sat Nov 14 2020 20:30:00 GMT+0530 (India Standard Time)	End date: Fri Nov 13 2020 23:30:00 GMT+0530 (India Standard Time)

Blood Donation Camp	Cookery Contest
Want to become a hero?? Donation blood and save lives. Venue: GCC Hospital	Join cookery competition and show your skills. Win exciting prizes worth Rs. 25000. Venue: ITC, Chennai
Start date: Sun Dec 13 2020 14:30:00 GMT+0530 (India Standard Time)	Start date: Thu Dec 31 2020 15:00:00 GMT+0530 (India Standard Time)
End date: Wed Dec 23 2020 20:30:00 GMT+0530 (India Standard Time)	End date: Thu Dec 31 2020 17:00:00 GMT+0530 (India Standard Time)

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A screenshot of a terminal window with a black background and white text. The window title bar at the top shows 'MINGW64:/c/Users/Lakshmi Priya/Desktop/events24_7' and standard window control buttons. The terminal content shows a user prompt 'Lakshmi Priya@DESKTOP-TPOJEV6 MINGW64 ~/Desktop/events24_7' followed by the command '\$ nodemon app.js'. The output includes '[nodemon] 2.0.4', '[nodemon] to restart at any time, enter `rs`', '[nodemon] watching path(s): *.*', '[nodemon] watching extensions: js,mjs,json', and '[nodemon] starting `node app.js`'. The final line of output is 'Server started on port 3000.' followed by a small red cursor.

```
Lakshmi Priya@DESKTOP-TPOJEV6 MINGW64 ~/Desktop/events24_7
$ nodemon app.js
[nodemon] 2.0.4
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node app.js`
Server started on port 3000.
```

Algorithms to create the website:

1. Develop the design template
2. Create homepage of the event management website which contains:
 - a. Navigation bar with an attractive caption and an image, contact, pricing and subscribe links
 - b. Company objectives and goals
 - c. Customer testimonials in scroll view
 - d. Pricing plans
 - e. Services offered
3. Add functionality to contacts and pricing links in navigation bar to scroll to appropriate sections upon clicking
4. Set up MongoDB Atlas backend database
5. Download all required node modules
6. Create app.js file to listen at port 3000
7. Set the file app.js to return home.html upon get() request
8. Enable OAuth (signing in with Google mail id) for user login
9. Use mongoose package to manipulate MongoDB backend using Node.js
10. Create login page
11. Add event services data to MongoDB Atlas collection
12. Enable navigation from home page to services page
13. Utilize ejs to load dynamic content rather than static content from html pages
14. Render dynamic content using ejs loaded from MongoDB during run time
15. Enable to pass data from ejs page to app.js page
16. Retrieved images using url stored in MongoDB Atlas
17. Redirect user after login authentication
18. Render main user console page to valid users
19. Pass user id across pages
20. Build user console to enable:
 1. Event booking
 2. Event Advertising
 3. Viewing events
 4. Viewing bookings
21. Add employee login page and credentials into MongoDB Atlas database
22. Check for valid employee credentials thorough employee route

Challenges & Opportunities:

- The main challenge was to develop an “adaptive” website. The components in the website are designed to resize and fit in the screen without getting congested.
- The OAuth authentication scheme was bit complicated to implement but it is the best secure authentication than any other basic hashing techniques.
- Access the MongoDB Atlas to retrieve documents was relatively challenging.

Risk Vs Reward:

Choosing to construct all files as Express JavaScript files help in rendering webpages with dynamic content but this can be too risky as the code might break if any of the content which has to be dynamically rendered is unavailable. So, extra care must be taken while designing and coding but this can be most rewarding in terms of code reuse and code readability if done properly.

Reflections on the Internship:

This internship has been a great opportunity to push my boundaries and challenge myself as I have done all this by just taking up an online course for 50 hours all by myself without any assistance from anyone. I am so proud of this first ever website which I have built.

Outcome / Conclusion:

Thus, an user friendly, adaptive website has been developed for “Event management is Tourism and Hospitality Industry”.

Enhancement Scope:

The admin consoles are now available only at the MongoDB Atlas cloud. These consoles can be integrated into the website. The employee consoles can be further improved to have more powerful functionalities like interaction with customer, reviewing testimonials, salary details of that employee, etc.

Link to code and executable file:

<https://drive.google.com/file/d/1AMZhve9eXzsYuhpyiepZMO2o5Hi4de8o/view?usp=sharing>

Instructions for link to code:

- Link to zip file of the project is provided. Unzip and view contents.
- Sensitive password information has been removed from .env file and appropriate directions have been included on what must be replaced to run the code.
- To execute the file, include the password sensitive information in .env file and then run nodemon app.js in the terminal after installing nodemon package.