2022

Internship Project Report

RÊVE – EVENT BOOKING SYSTEM

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SUBMITTED TO: MS. DEEKSHA RAJPUT |

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About the Project

Rêve is a website for an Event Booking System, providing UI and functionalities for both admin and users related to booking several events.

The front-end for the website is built from JSP, CSS and JavaScript and frameworks including Bootstrap and jQuery, as well as JSTL tag library to assist JSP pages. The database connected to the website is built in MySQL and the backend is implemented using the platform Spring Boot in Java.

For Admins, Rêve provides facilities for Login, and once logged in, the admin can make several editions on the Events database. From the Sidebar, Admin can navigate through several sections on the admin side of the website, each serving different purposes. The admin can view all upcoming or ongoing events on the Home Dashboard and edit or delete them from Event List Editing section. The Events are automatically classified as Upcoming/Ongoing or Past Events and displayed in their respective sections, as well as on user-end of the website.

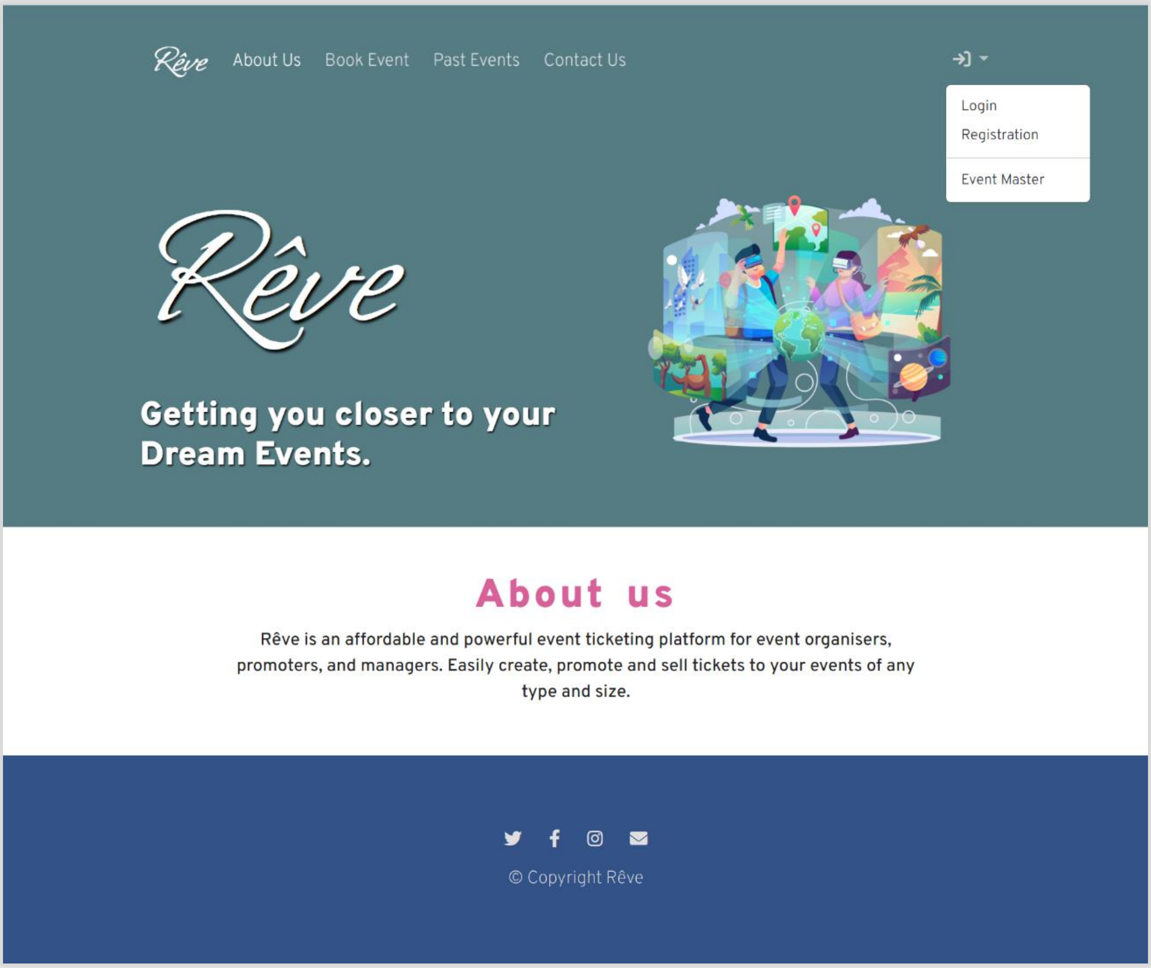
For the Users of the website, they can login and register on the site and book any of the upcoming or present Events. The system given necessary error messages and validation checks for the above-mentioned functionalities.

Functionalities

Rêve provides various features for Event Booking and system operation for both users and admins, including the following.

- Landing Page -

The homepage consists of several sections, including a title and About Us section. The title section contains a Navbar with which users can navigate through different sections on the website, and a dropdown menu that contains links User login and registration, as well as Event Master (admin) section of the website.



Getting you closer to your Dream Events.

About us

Rêve is an affordable and powerful event ticketing platform for event organisers, promoters, and managers. Easily create, promote and sell tickets to your events of any type and size.

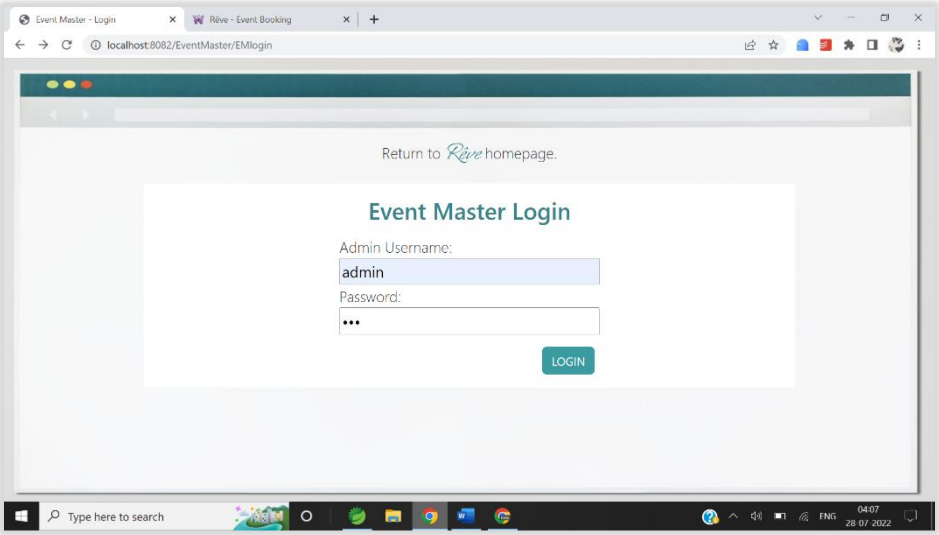
© Copyright Rêve

The lowest section on the page in Contact Us section, that contains links to various social handles as well as a mailing option, which upon clicking, makes a draft mail to concerned account, where sender can customize a message.

- Admin Section -

Admin Login & Registration:

The website allows functionality checks for Login and Registration for the administrators.



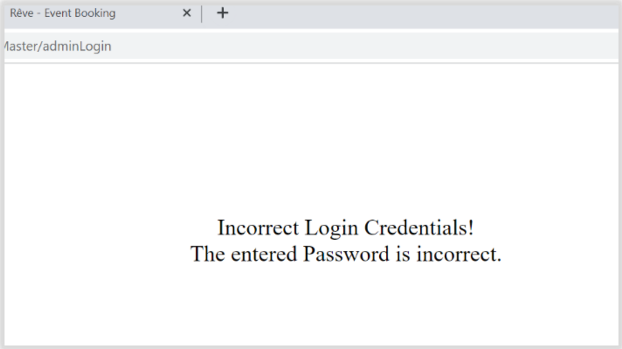
Return to Rêve homepage.

Event Master Login

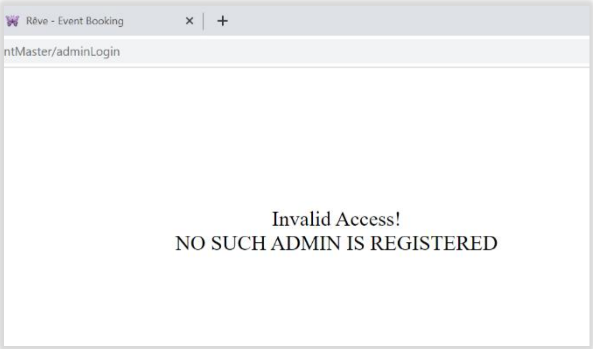
Admin Username:
admin

Password:
•••

Error messages are displayed when a login attempt is made with Incorrect Login Credentials, including an unregistered admin username or incorrect password.

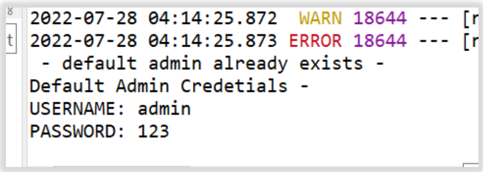


Incorrect Login Credentials!
The entered Password is incorrect.



Invalid Access!
NO SUCH ADMIN IS REGISTERED

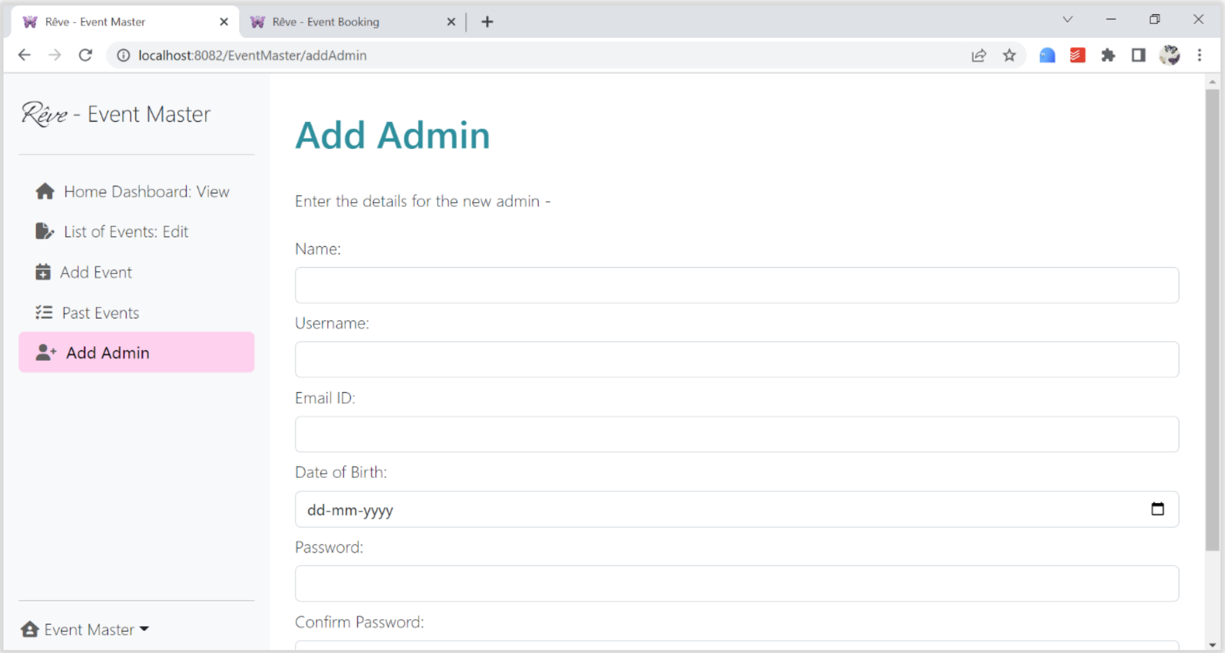
The System assigns a Default Admin Username and Password on loading of landing page, when the hibernate auto property is set to 'create' and the entities are freshly created so that the system can further be operated on.



```
2022-07-28 04:14:25.872  WARN 18644 --- [r
2022-07-28 04:14:25.873 ERROR 18644 --- [r
 - default admin already exists -
Default Admin Credetials -
USERNAME: admin
PASSWORD: 123
```

Otherwise, if it already exists, On the time of loading the Default Admin is checked and printed on Console.

Once logged in, the admin is given access to a variety of functionalities in the admin panel by navigating through the Sidebar, including Admin Registration. Only an admin can add another admin for the website.



Add Admin

Enter the details for the new admin -

Name:

Username:

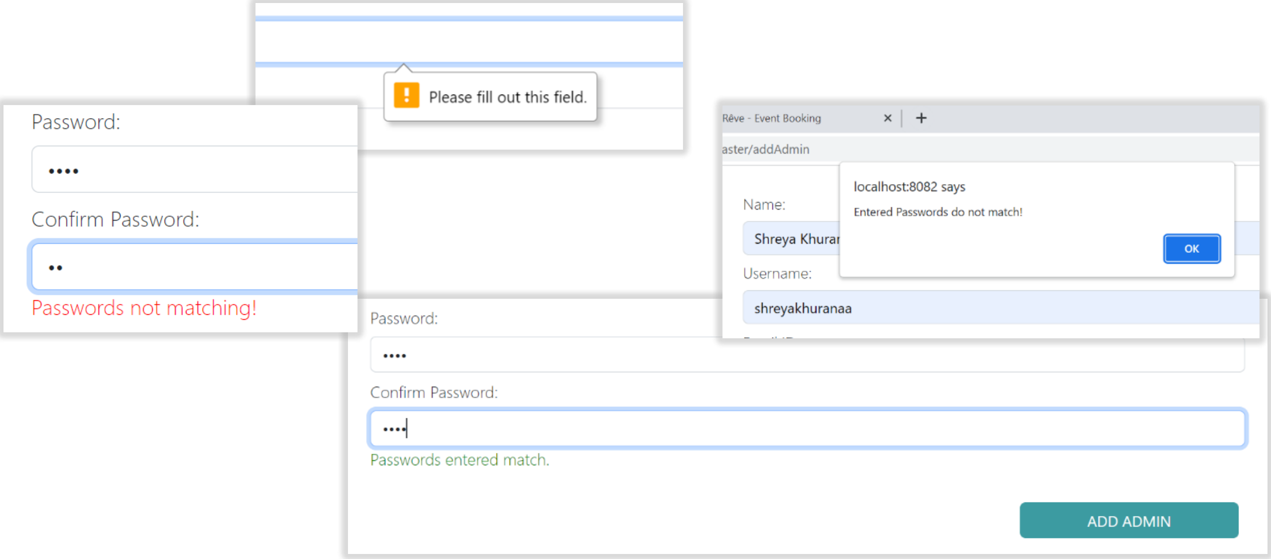
Email ID:

Date of Birth: dd-mm-yyyy

Password:

Confirm Password:

There is Client-side form Validation check provided for all fields to so that they are not left null or inserted with incorrect values, including a Confirm-Password check that simultaneously cross-checks password at the time of typing. An alert is given on submission attempts if passwords don't match.



Please fill out this field.

Password: ••••

Confirm Password: ••

Passwords not matching!

localhost:8082 says

Entered Passwords do not match!

Name: Shreya Khurar

Username: shreyakhuranaa

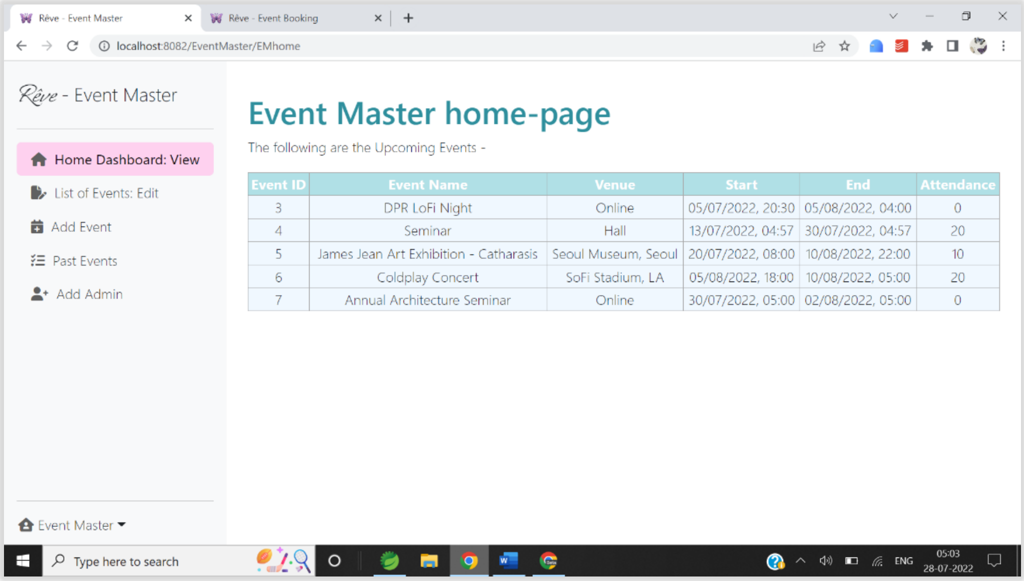
Password: ••••

Confirm Password: ••••

Passwords entered match.

View Upcoming Events:

The admins can view all upcoming or ongoing events on the Home Dashboard and edit or delete them from Event List Editing section, which dynamically fetch data from the Database.



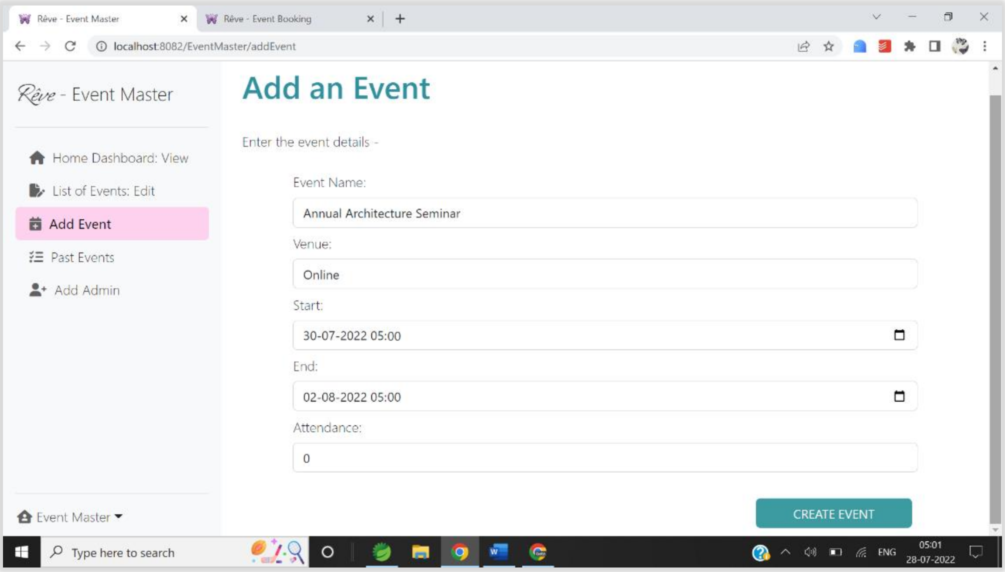
Event Master home-page

The following are the Upcoming Events -

Event ID	Event Name	Venue	Start	End	Attendance
3	DPR LoFi Night	Online	05/07/2022, 20:30	05/08/2022, 04:00	0
4	Seminar	Hall	13/07/2022, 04:57	30/07/2022, 04:57	20
5	James Jean Art Exhibition - Catharasis	Seoul Museum, Seoul	20/07/2022, 08:00	10/08/2022, 22:00	10
6	Coldplay Concert	SoFi Stadium, LA	05/08/2022, 18:00	10/08/2022, 05:00	20
7	Annual Architecture Seminar	Online	30/07/2022, 05:00	02/08/2022, 05:00	0

Adding an Event:

The admins can also add New Events, specifying its name, which has to be unique, Venue, starting and ending date and time, and initial attendance for the event. The attendance is later automatically updated as the System receives new booking requests.



Add an Event

Enter the event details -

Event Name: Annual Architecture Seminar

Venue: Online

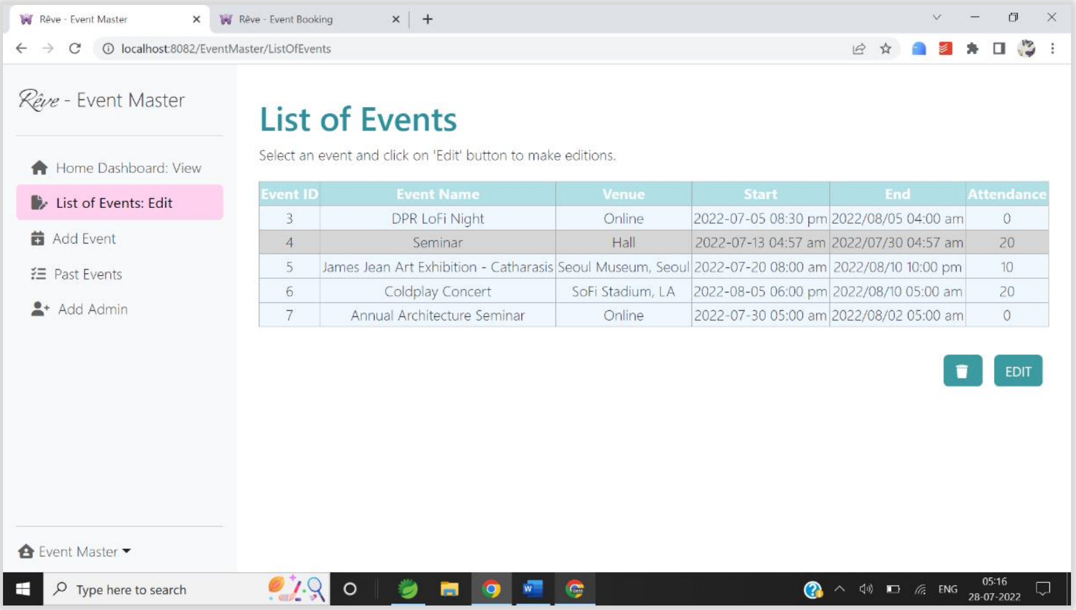
Start: 30-07-2022 05:00

End: 02-08-2022 05:00

Attendance: 0

Editing & Deleting existing Events:

The admins are given ability to edit or delete any existing event, whether of Past or Upcoming category. This is done by selecting the targeted row or Event and then making desired updates.

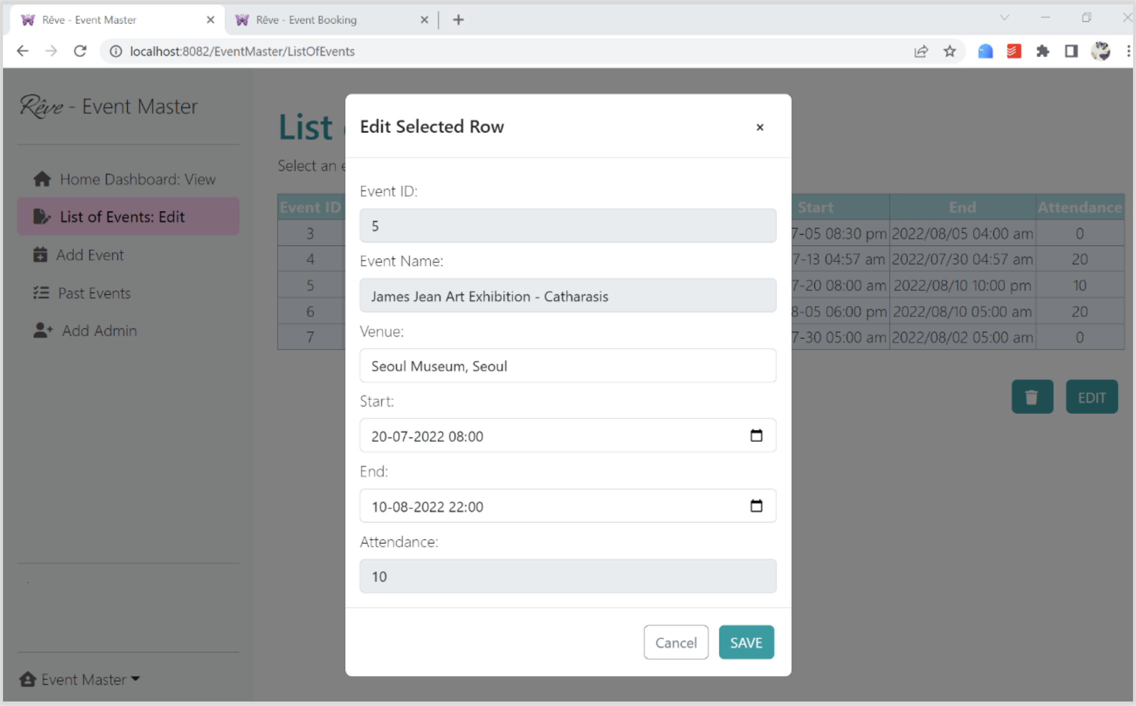


List of Events

Select an event and click on 'Edit' button to make editions.

Event ID	Event Name	Venue	Start	End	Attendance
3	DPR LoFi Night	Online	2022-07-05 08:30 pm	2022/08/05 04:00 am	0
4	Seminar	Hall	2022-07-13 04:57 am	2022/07/30 04:57 am	20
5	James Jean Art Exhibition - Catharasis	Seoul Museum, Seoul	2022-07-20 08:00 am	2022/08/10 10:00 pm	10
6	Coldplay Concert	SoFi Stadium, LA	2022-08-05 06:00 pm	2022/08/10 05:00 am	20
7	Annual Architecture Seminar	Online	2022-07-30 05:00 am	2022/08/02 05:00 am	0

Moreover, Event-ID and Event Name are Primary keys, unique fields which help identify the event and attendance is auto-updated after initialised, thus, they are both disabled to make sure updates are made on the targeted event and there is no anomaly or loss of data.



Edit Selected Row

Event ID: 5

Event Name: James Jean Art Exhibition - Catharasis

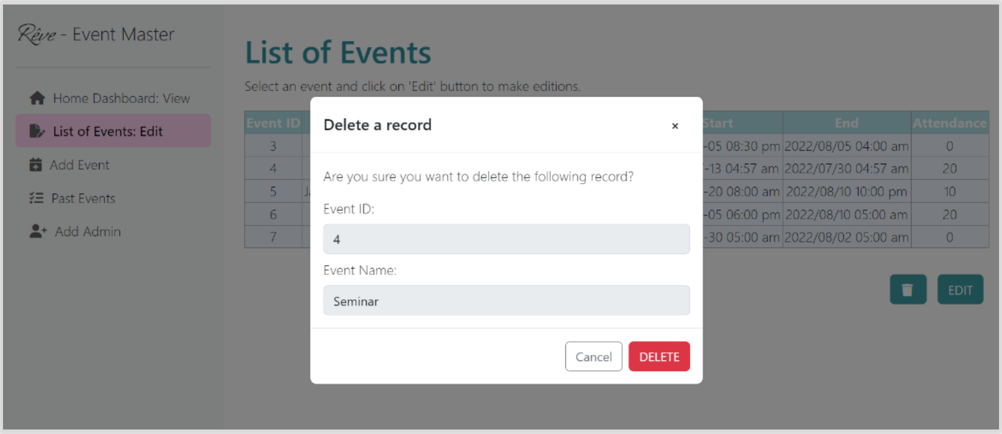
Venue: Seoul Museum, Seoul

Start: 20-07-2022 08:00

End: 10-08-2022 22:00

Attendance: 10

Both the delete and edit event form option are implemented using Bootstrap Modals and on posting correctly, redirect to the Home Dashboard.



Rêve - Event Master

List of Events

Select an event and click on 'Edit' button to make editions.

Event ID		Start	End	Attendance
3		-05 08:30 pm	2022/08/05 04:00 am	0
4		-13 04:57 am	2022/07/30 04:57 am	20
5	J	-20 08:00 am	2022/08/10 10:00 pm	10
6		-05 06:00 pm	2022/08/10 05:00 am	20
7		-30 05:00 am	2022/08/02 05:00 am	0

Delete a record

Are you sure you want to delete the following record?

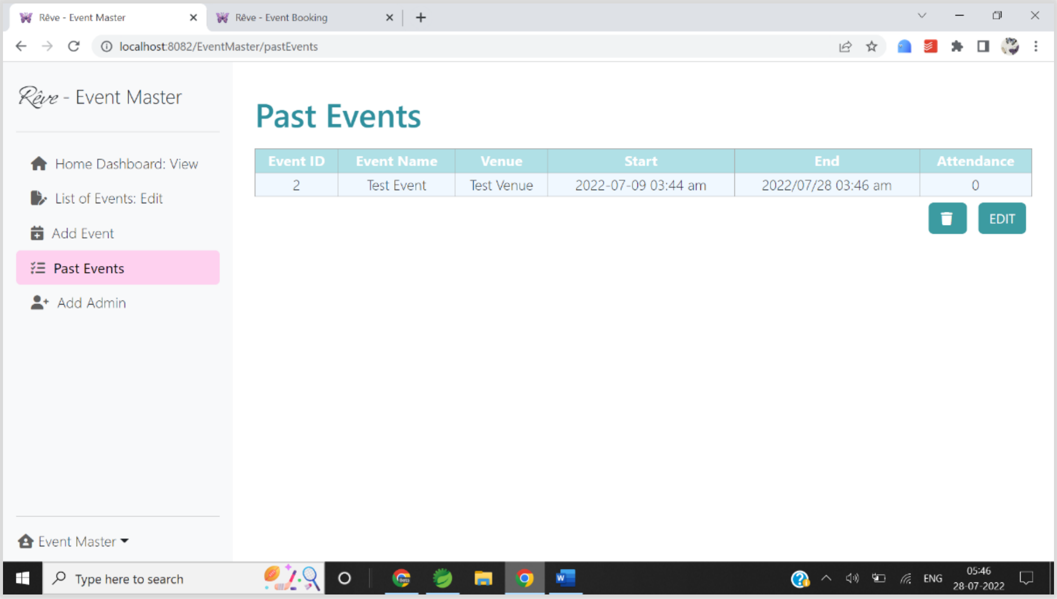
Event ID: 4

Event Name: Seminar

Automatic Classification of Events:

The events can be classified as Present (upcoming/ongoing) or Past Event depending on their ending date, and sections have been defined for the same.

Once an event is over, i.e., once it's ending date passes the current date and time, it is classified as 'Past Event' by the system automatically at the time of loading or editing; and thus, displayed in the Past Events section, by query selecting them on the basis of their status field.



localhost:8082/EventMaster/pastEvents

Rêve - Event Master

Past Events

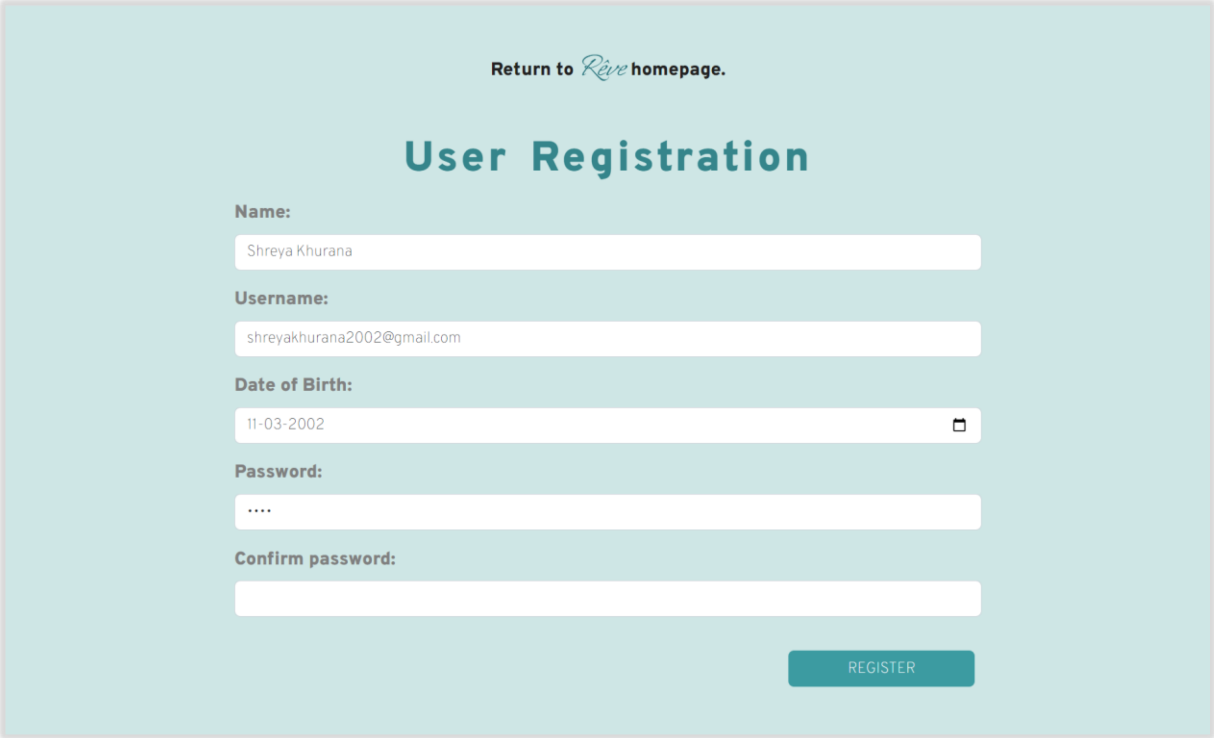
Event ID	Event Name	Venue	Start	End	Attendance
2	Test Event	Test Venue	2022-07-09 03:44 am	2022/07/28 03:46 am	0

The Past events section has also been provided with editing and deletion features to make room for manual error correction.

- User Side Functionalities -

User Login & Registration:

The website allows functionality checks for Login and Registration for the Users. New Users can register themselves by navigating to the registration section from the Navbar.



Return to Rêve homepage.

User Registration

Name:
Shreya Khurana

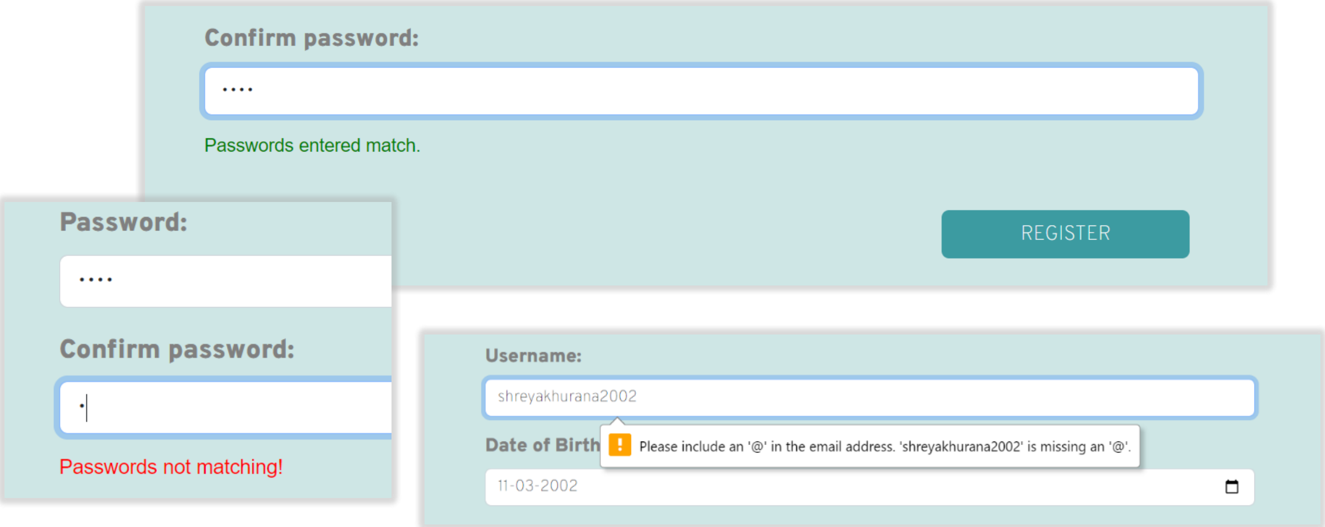
Username:
shreyakhurana2002@gmail.com

Date of Birth:
11-03-2002

Password:
····

Confirm password:

Like in admin section, there is client-side form validation present for both login and registration forms, submission is halted in case of incorrect details, null values and unmatched passwords.



Confirm password:
····

Passwords entered match.

Password:
····

Confirm password:
·

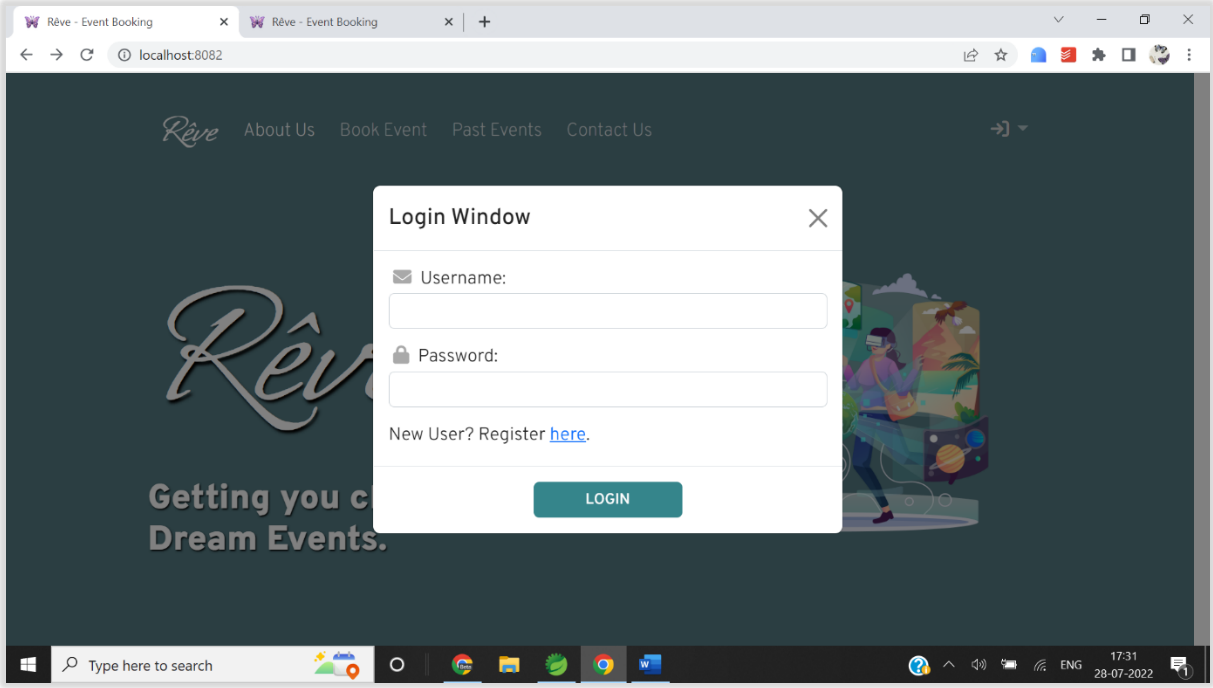
Passwords not matching!

Username:
shreyakhurana2002

Date of Birth
11-03-2002

Please include an '@' in the email address. 'shreyakhurana2002' is missing an '@'.

For User Login, there are Bootstrap Modal forms available of Landing and Events Page.



Login Window

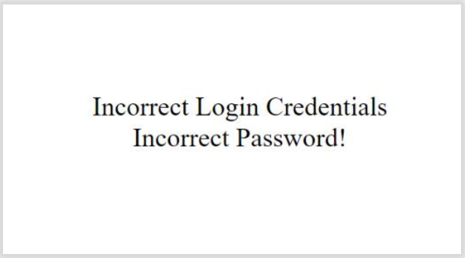
Username:

Password:

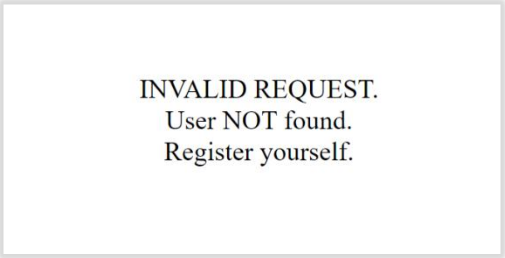
New User? Register here.

LOGIN

When the Login credentials are correct, user is successfully logged in, otherwise an error page is displayed; in the case of unregistered users or incorrect password, like in admin section.



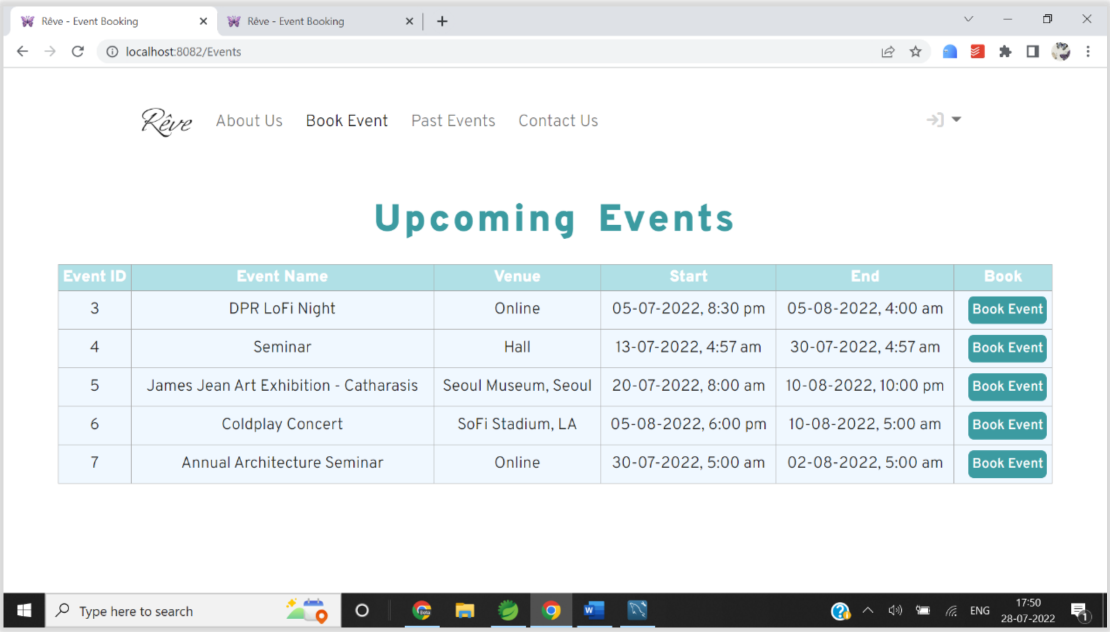
Incorrect Login Credentials
Incorrect Password!



INVALID REQUEST.
User NOT found.
Register yourself.

Booking Events:

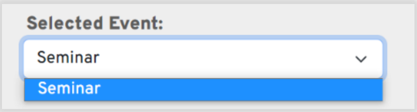
The most important functionality of the website is booking Events by the User. The user can view all Upcoming or ongoing events by navigating to Events section from the Navbar.



Upcoming Events

Event ID	Event Name	Venue	Start	End	Book
3	DPR LoFi Night	Online	05-07-2022, 8:30 pm	05-08-2022, 4:00 am	Book Event
4	Seminar	Hall	13-07-2022, 4:57 am	30-07-2022, 4:57 am	Book Event
5	James Jean Art Exhibition - Catharasis	Seoul Museum, Seoul	20-07-2022, 8:00 am	10-08-2022, 10:00 pm	Book Event
6	Coldplay Concert	SoFi Stadium, LA	05-08-2022, 6:00 pm	10-08-2022, 5:00 am	Book Event
7	Annual Architecture Seminar	Online	30-07-2022, 5:00 am	02-08-2022, 5:00 am	Book Event

This page displays all the present events in a table format with a Book Event button for each event, that redirects to the page for Booking the event and selecting the seats with the event-ID as the path variable.



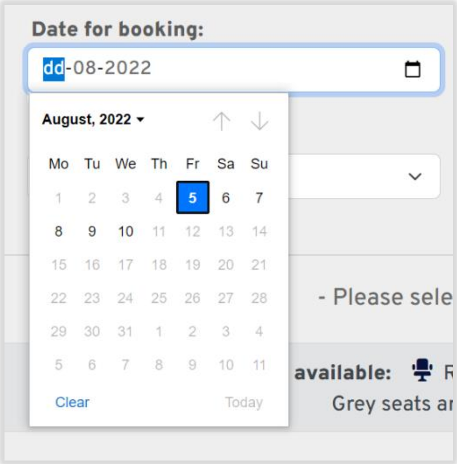
Selected Event:

Seminar

Seminar

The Event Booking page consists of a form to Enter details of the booker including contact details, Payment methods and Event details, displayed so as to allow selection of only selected event to avoid errors.

The Form has several validation checks to ensure fields aren't left empty and others allowing selective selection of event dates, based on starting, ending dates of event and current date, to make sure that a past date isn't selected. This is implemented by setting min and max attribute for the date picker.

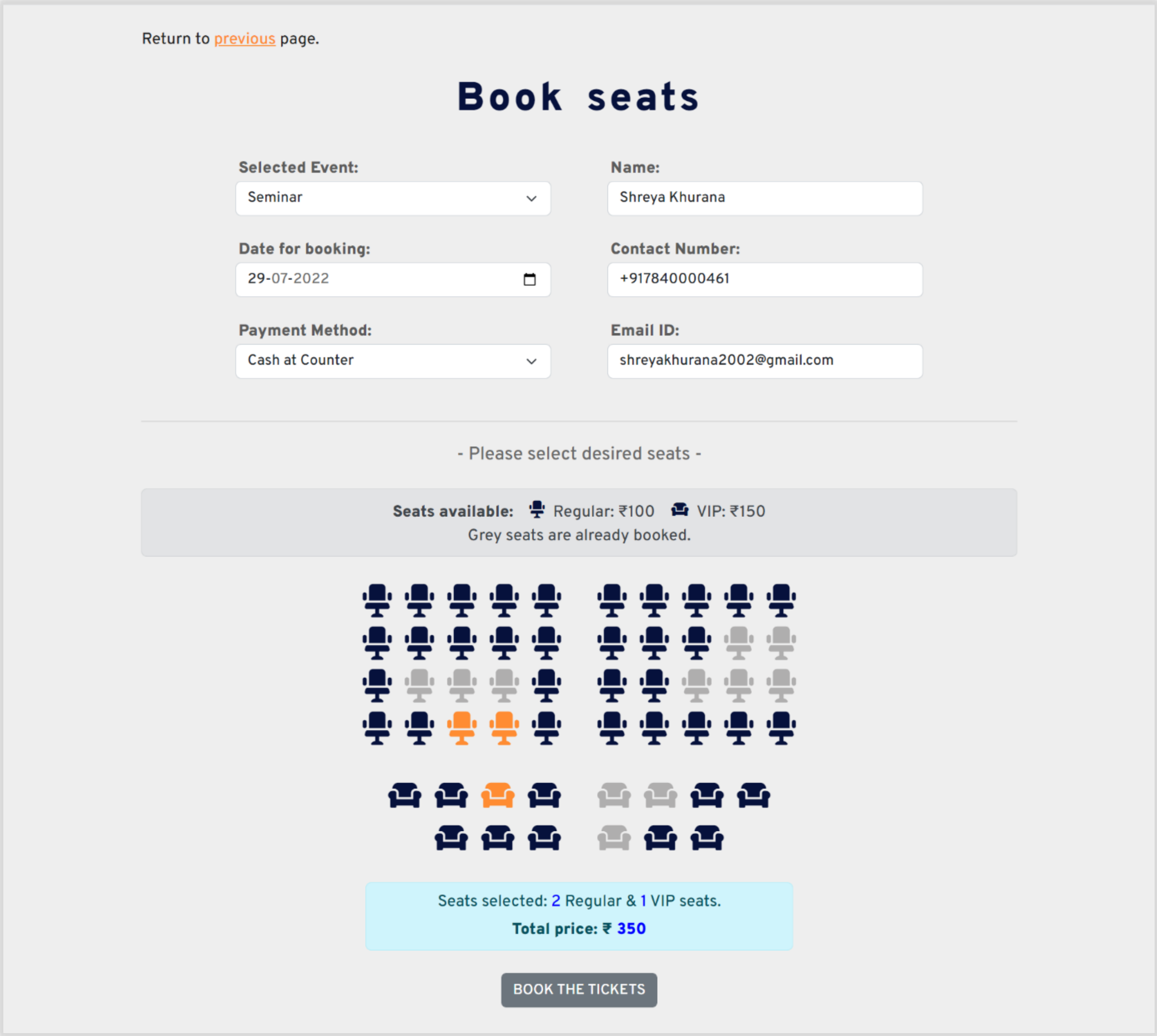


Date for booking:

dd-08-2022

August, 2022

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11



Return to previous page.

Book seats

Selected Event: Seminar

Date for booking: 29-07-2022

Payment Method: Cash at Counter

Name: Shreya Khurana

Contact Number: +917840000461

Email ID: shreyakhurana2002@gmail.com

- Please select desired seats -

Seats available: Regular: ₹100 VIP: ₹150

Grey seats are already booked.

Seats selected: 2 Regular & 1 VIP seats.

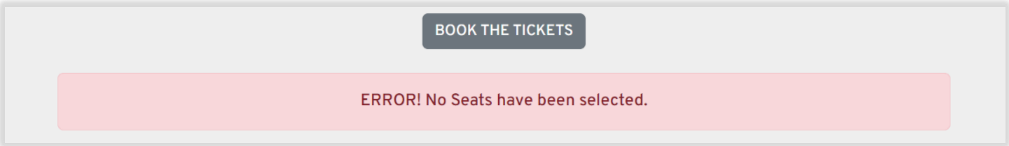
Total price: ₹ 350

As stated from the seats guide, there are VIP Seats and Regular Seats available for different prices. Already sold seats are marked grey and cannot be selected, seats can be selected by clicking on them, and they are marked as orange.

The blue selection displays dynamically on seat selection, the number of seats selected from each category and total price based on derivative pricing. This calculation is done on client side by JavaScript.

Moreover, the sold seats display on each panel are specific to the event and date selected and the data for the same is dynamically queried from the database, using data access layer of the software, which is requested and received using jQuery AJAX get method, on selection of available dates.

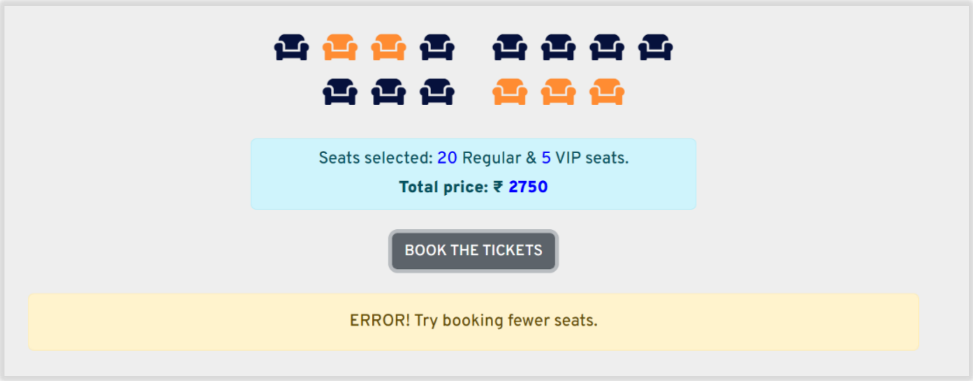
The Data of seat numbers, booker details, price etc are sent to backend using various input fields including hidden inputs. If the seats aren't selected, JavaScript halts booking and displays an alert requesting the same.



ERROR! No Seats have been selected.

Since the Seat Numbers are stored in String format in the database, with a maximum length of 45, the maximum number of seats booked per booking can limit between 11-15 depending on seat numbers selected.

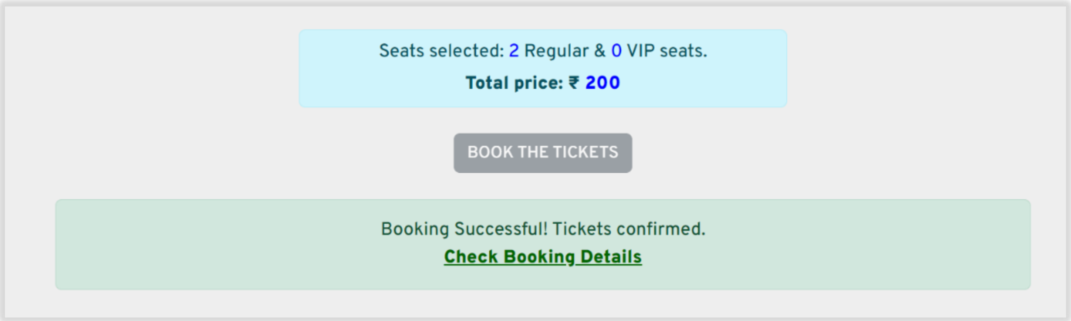
If the seat selection limit is crossed, the following message is displayed.



Seats selected: 20 Regular & 5 VIP seats.
Total price: ₹ 2750

ERROR! Try booking fewer seats.

Otherwise, the Booking is successfully made, and the following message is displayed. Form submission is handled with jQuery AJAX and messages are displayed using the same.

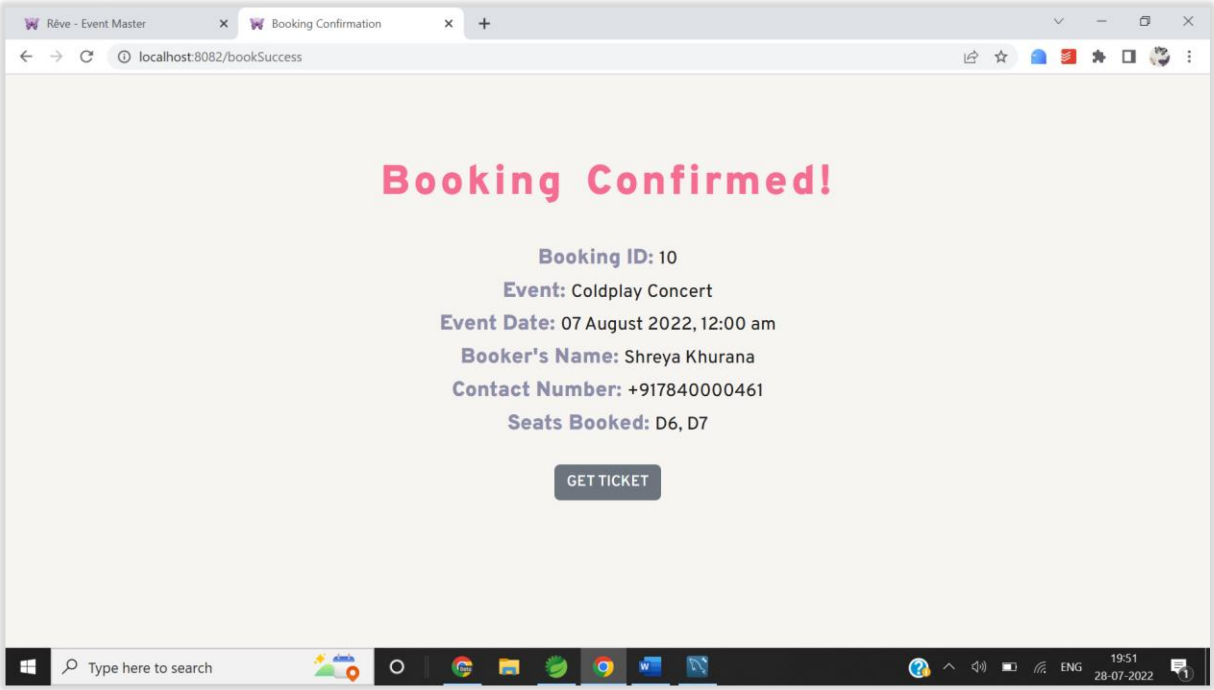


Seats selected: 2 Regular & 0 VIP seats.
Total price: ₹ 200

Booking Successful! Tickets confirmed.
Check Booking Details

After booking selected seats are marked as sold and details taken to controller and saved in database with service and data access layers.

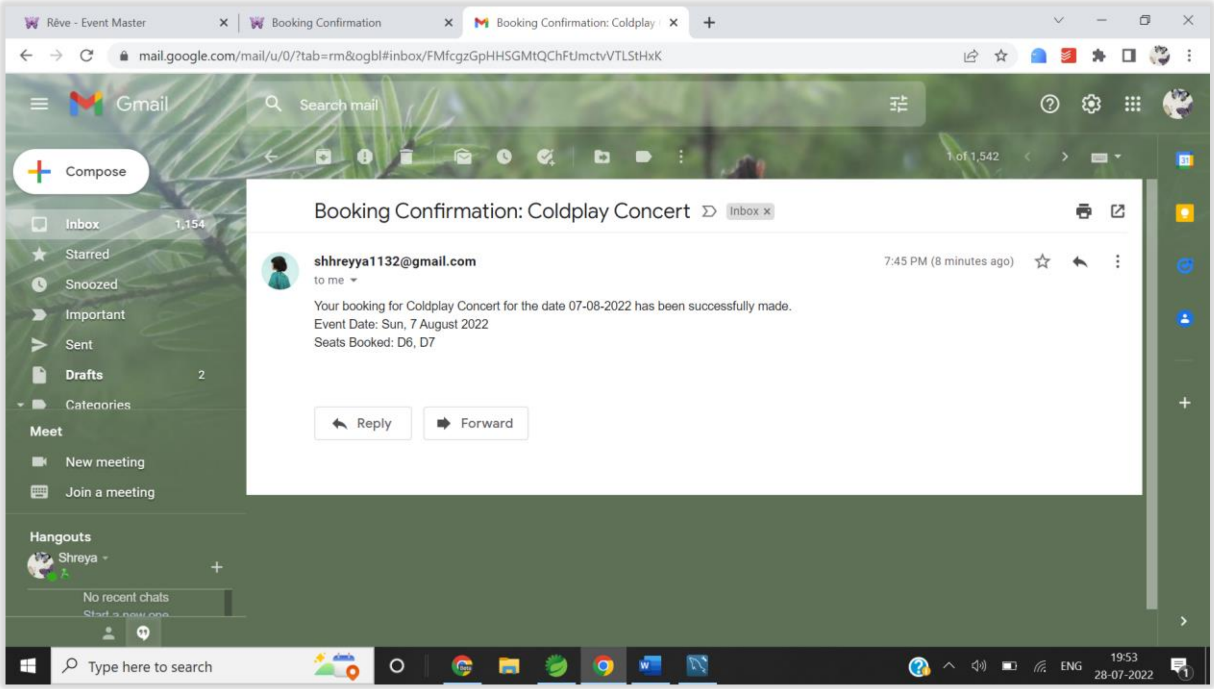
On clicking check booking details, user is redirected to another page, where they can look at the details as well as generate a ticket by clicking the button that generates a screenshot of the page.



Booking Confirmed!

Booking ID: 10
Event: Coldplay Concert
Event Date: 07 August 2022, 12:00 am
Booker's Name: Shreya Khurana
Contact Number: +917840000461
Seats Booked: D6, D7

Upon successful booking, user is also sent a system-generated confirmation mail on the specified email.



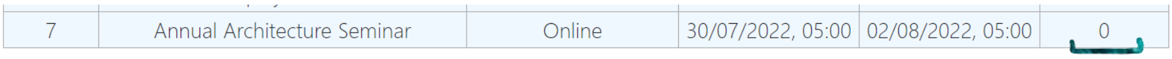
Booking Confirmation: Coldplay Concert

shhreyya1132@gmail.com
to me
7:45 PM (8 minutes ago)

Your booking for Coldplay Concert for the date 07-08-2022 has been successfully made.
Event Date: Sun, 7 August 2022
Seats Booked: D6, D7

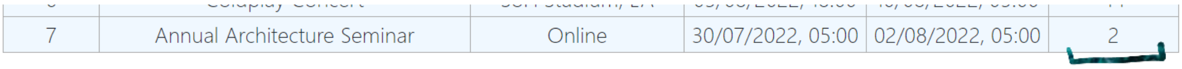
Moreover, as the bookings are made, the attendance count is updated simultaneously for them in the database, automatically by the system, depending on number of Seats booked. This count can be observed from the Event Master panel.

Before the Seats are booked:



7	Annual Architecture Seminar	Online	30/07/2022, 05:00	02/08/2022, 05:00	0

After 2 seats are booked for the seminar:

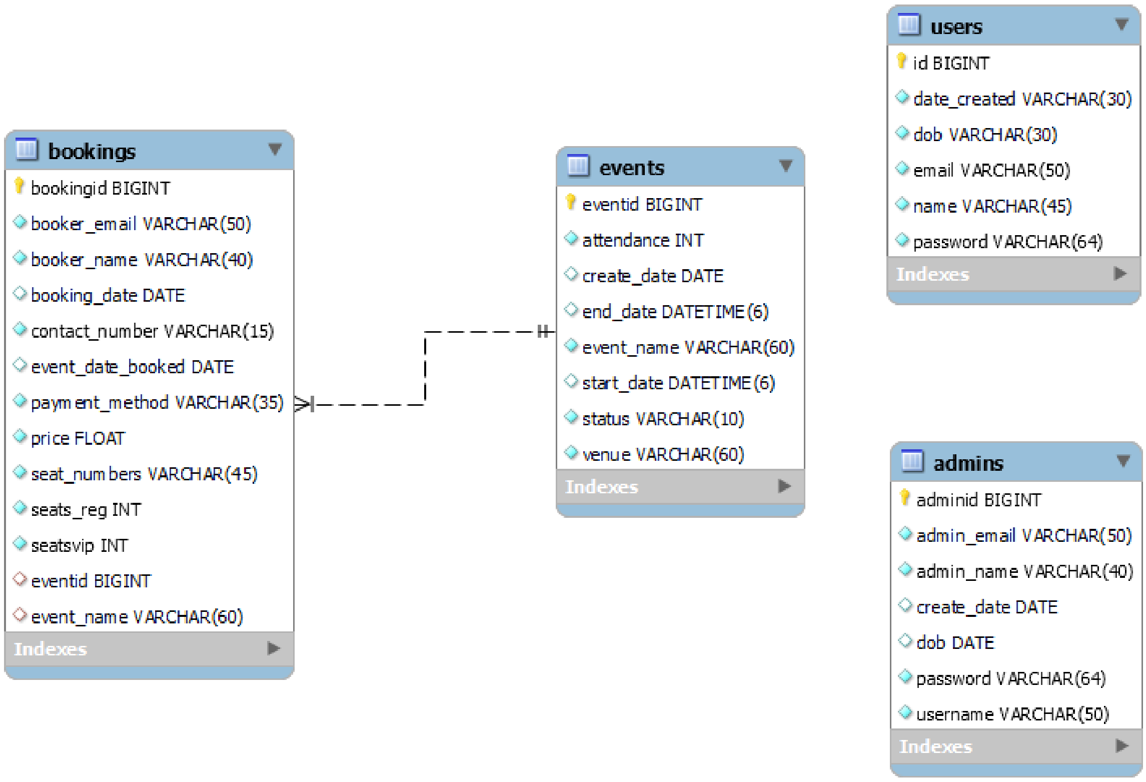


7	Annual Architecture Seminar	Online	30/07/2022, 05:00	02/08/2022, 05:00	2

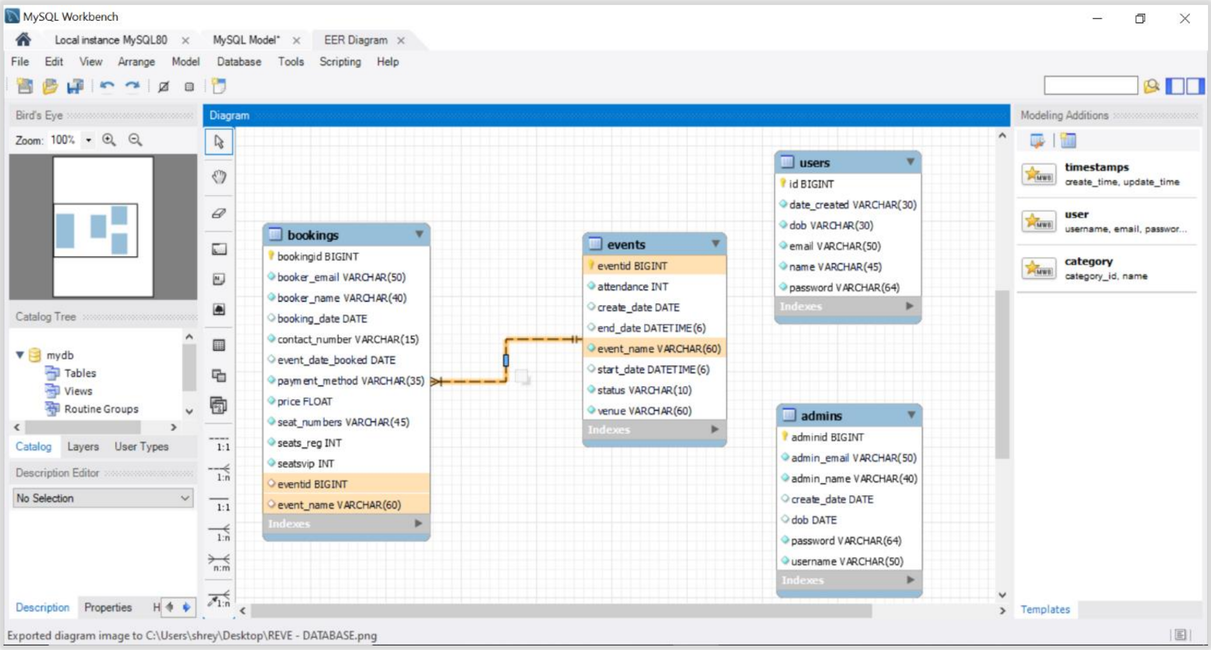
The attendance count is hence updated.

Database Structure

The database structure on the backend uses Many to one mapping between Booking and Event entities. The reverse engineered schema for the MySQL database is as follows.



Mapping and joint columns for the relational database can be seen below.



Exported diagram image to C:\Users\shrey\Desktop\REVE - DATABASE.png