

COMP3900

Computer Science / Information Technology Project

Project Name: **Event Management System**

Team Name: 3900-T14A-[name]

Due Date: Thursday 21 April 2022

Members:

- Arzaan Mirza z5311529@ad.unsw.edu.au, z5311529 (Scrum Master)
- Alex Li: z5260120@ad.unsw.edu.au, z5260120
- Alex Huang z5169765@ad.unsw.edu.au, z5169765
- Ricky Huang, z5164646@ad.unsw.edu.au, z5164646

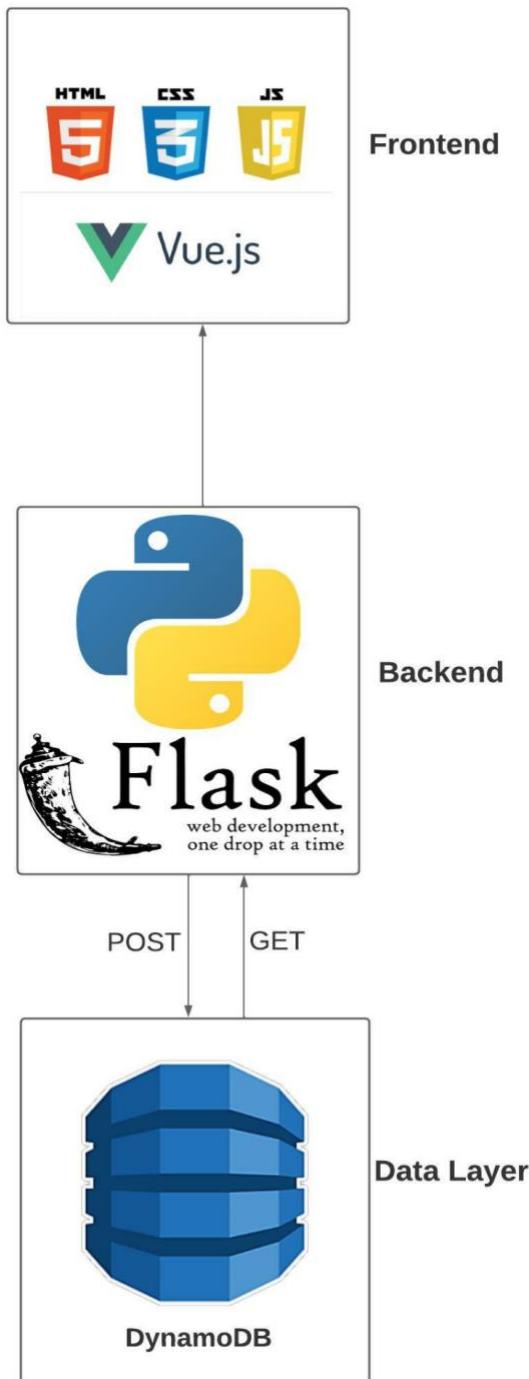
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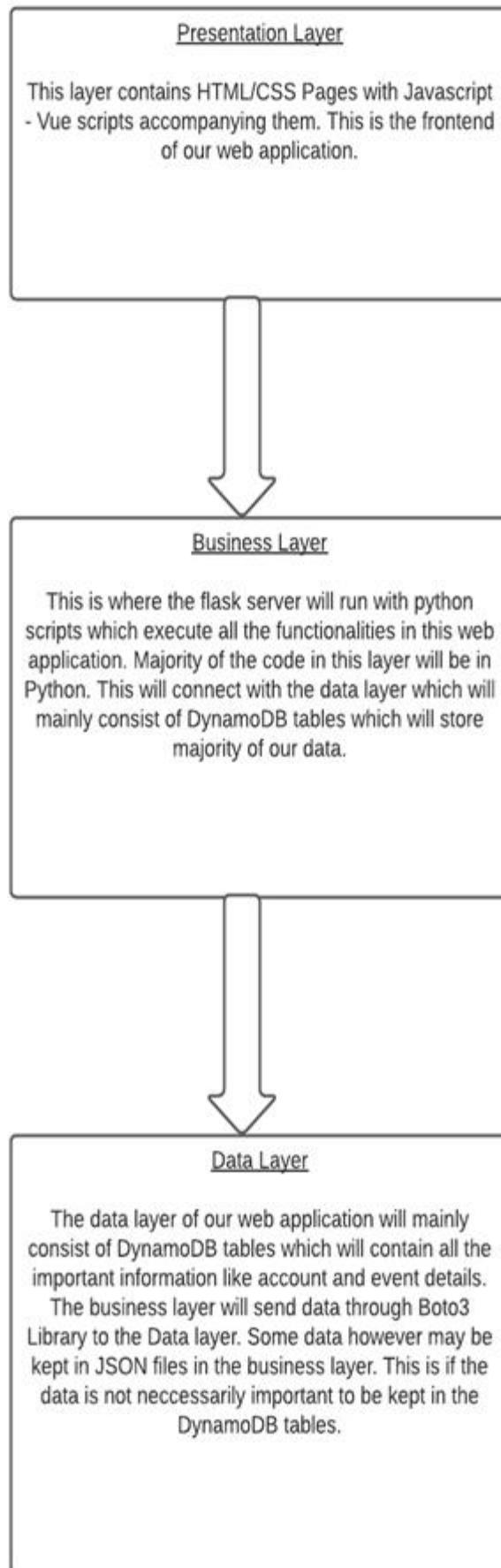
Computer Science / Information Technology Project

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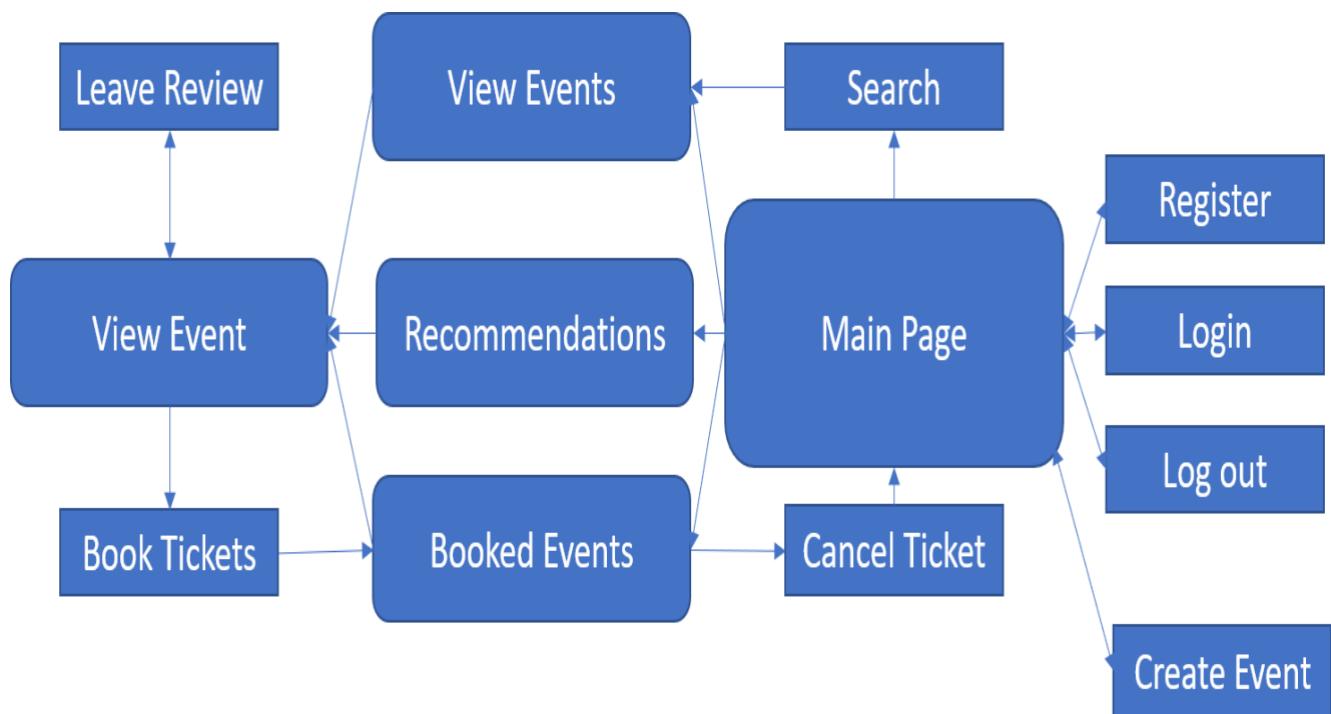
System Architecture

Main components of the system:





Site Map:



Functionality

- **Objective: Registration and login**

```
@app.route('/register', methods=["POST", "GET"])
def register():
|
```

Registration:

Users will be able to register a user account. A username and password will be required to register a user account. Usernames must be unique, and passwords must meet a certain strength requirement.

If a new customer wants to be registered, the register function will take in the values provided by the customer. It will check whether the username is unique, the strength of the password, and the password confirmation matches the password. Then the information will be encrypted and stored in dynamo DB as a new account.

Log in:

```
@app.route('/login', methods=["POST", "GET"])
def login():
|
```

After successful registering, users can log in to their account by entering the correct username and password. If account credentials in the database match the input, users log in successfully.

Log out:

```
@app.route('/logout', methods=["POST", "GET"])
def logout():
|
```

When users log in and get a session cookie. The session cookie is passed to functions. The log out button clears session cookies.

- **Objective: View upcoming events**

```
@app.route('/', methods=["POST", "GET"])
def home():
|
```

Users will be able to view all upcoming events. When users are viewing the events, the function uses “GET” to retrieve the events from the database.

- **Objective: Book Tickets**

```
@app.route('/event_info/<Event_Title>/book_ticket',methods = ["POST", "GET"])
def book_event(Event_Title):
|
```

Users will be able to book tickets and select seats for upcoming events. Once the payment details have been entered through the interface, this function will reduce the even ticket by the number user asks and transfer the ticket to the user.

```
@app.route('/event_info/<Event_Title>/booking.html',methods = ["POST","GET"])
def pay_event(Event_Title):
```

The interface for users to book their events.

- **Objective: Cancel booking**

```
@app.route('/event_info/<Event_Title>/cancel', methods = ["GET","POST"])
def user_cancel(Event_Title):
```

Customer can cancel their booked event. The function will search through the booked event list under the custom's account using its event title, and remove it from the list. Then transfer the money back and increase the amount of the tickets that are available for the event.

- **Objective: Cancel an event session**

```
@app.route('/<Event_Title>/cancel',methods = ["GET"])
def cancel_event(Event_Title):
```

This function will search for the matching event title in the general event list and remove them from the list. It will also remove this event from the customer's booking list simultaneously. When the event is removed this function will send an email to all customers that booked this event.

- **Objective: Event broadcasting to customers**

```
@app.route('/event_info/<Event_Title>/book_ticket',methods = ["POST","GET"])
def book_event(Event_Title):
    print('User Email: ' + user_data['Email'] + ',Event: ' + Event_Title)
    confirm_booking(user_data['Email'],Event_Title)
```

The booking event function will search and find the corresponding email address from the database and broadcast the confirmation email to the customer.

- **Objective: Be able to write/edit/reply to reviews for each event.**

Write review

```
@app.route('/leave_review/<event_name>', methods = ["POST"])
def leave_review(event_name):
```

Customers need to be logged in to write reviews, if they are not logged in, they will be redirected to the login page. If customers are logged in, they can post reviews and the message will be displayed on the event information page and saved in the database under the customers' account.

Edit review

```
@app.route('/edit_review/<event_name>', methods = ["GET", "POST"])
def edit_review_route(event_name):
```

Customers need to be logged in to edit reviews, if they are not logged in, they will be redirected to the login page. This function will retrieve the corresponding reviews from the database and allow customers to overwrite the message and store the overwritten review. “Edited” will be displayed to show the review has been edited.

Reply review

```
@app.route('/reply_review/<event_name>/<username>', methods = ["GET", "POST"])
def reply_review_route(event_name, username):
```

Another customer can reply to a review, the function will find the review from the database after the customer press the reply button, and stored the review under the reviewer’s account.

- **Objective: Event recommendation**

```
@app.route('/recommendations', methods = ["POST", "GET"])
def recommendations():
```

After a customer booked an event successfully. The function will find events containing the same hosts, locations, and types that will be added to the recommendation lists in the customer’s account automatically.

- **Event advertisement**

```
@app.route('/', methods=[ "POST", "GET"])
def home():
```

Event hosts will be able to advertise new events. The function will add the newly created event to the general list using the “POST” method. A link to that event information page will also be provided.

- **Objective: Display nearby events by searching postcode/suburb (novelty)**

```
@app.route('/event_info/<Event_Title>', methods=[ "POST", "GET"])
def event_info(Event_Title):
```

When customers view a particular event, this function will find other events that have the same suburb/postcode from the database.

- **Add an event as the favourite (novelty)**

```
@app.route('/favourites_list',methods = [ "POST", "GET"])
def favourites_list():
```

This function will take the event title and put them into the favourite event list in that customer’s account after the customer clicks the “Add to favourites”. The favourite event list customer will be retrieved from the database and displayed to the customer.

Descriptions of all third-party functionalities

Flask:

We used the Flask framework which is a lightweight web framework and is written in Python. This framework played the main role for our backend in this project. The main reason that we used the flask framework was because it has the simple ability to create web applications compared to other frameworks such as Django. All the members had good experience with flask and the fact that we would be using API calls for our AWS resources. At the end it was decided that the flask framework would be the most beneficial to use then we can just focus mainly on the functionalities that we have to implement. And this was the case as we found creating/editing routes through flask extremely simple in this project which saved us a lot of effort.



Licensing for Flask:

There wasn't any particular licensing, but this was what it is written on its website:

"Flask is licensed under a three clause BSD License. It basically means do whatever you want with it as long as the copyright in Flask sticks around, the conditions are not modified, and the disclaimer is present. Furthermore, you must not use the names of the authors to promote derivatives of the software without written consent."

DynamoDB:

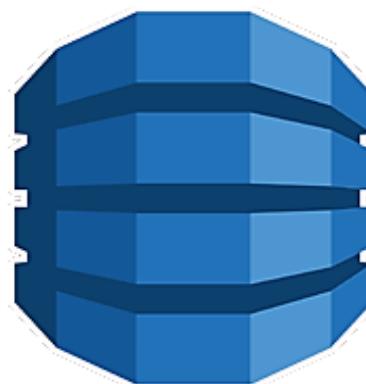
DynamoDB was the database service that we used in which it uses the NoSQL key-value which is a way of how data is stored. Its structure is most like how JSON is stored in JSON files. We used the AWS database service for it to store our information. This AWS service will be mainly used to store information regarding the account details of users and event information. The most important reason that we used this particular database is because of its simplicity and its ability to do API calls within our flask code which made it very easy to implement. Our group used DynamoDB by managing the tables (creating, editing, deleting) through the AWS console. Then it was through this use of Boto3 (AWS API which is used to manage AWS resources) on our python scripts we call the corresponding GET and POST requests. In Boto3, the POST request is PutItem () and the GET request is GetItem().

This documentation linked here shows the numerous API calls we will potentially be able to use in this project: (S3 — Boto3 Docs 1.21.13 documentation, 2022)

<https://boto3.amazonaws.com/v1/documentation/api/latest/reference/services/dynamodb.html#client>

These were multiple reasons why DynamoDB was a good choice for this project:

- the option of the free tier package that we can use which gives us 25 gigabytes of storage data.
- We get 25 Write & Read capacity units. This means that per second, DynamoDB will be able to POST and GET up to 25 of those requests each per second. This made the service to use very fast and flexible.
- DynamoDB tables consist of items in which each item is a row of data. Each item/row will have a primary key which would be the unique identifier in the table.
- It is also possible to have secondary indexes so that there is an efficient way to access records in a database.



Licensing for DynamoDB

There isn't any licensing for DynamoDB that affects our project, however there are some rules that need to be followed like not using the databases for illegal purposes which we obviously do not do.

There is a whole page of information on this which is posted by AWS:

<https://aws.amazon.com/dynamodb/dynamodblocallicense/>

Challenge/Special Design

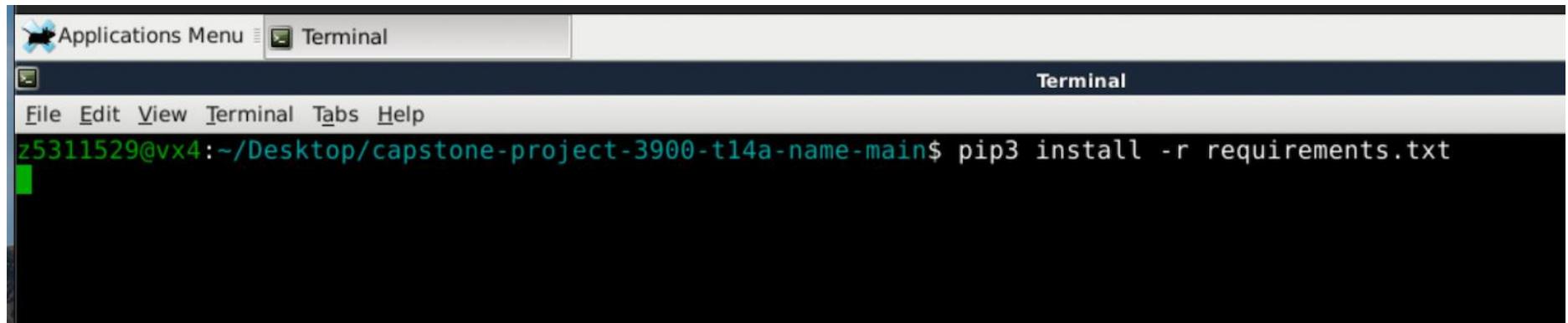
Encryption

- We have chosen to store login credentials as salted hashes to improve the security of our design. A hash is a one-way function (easy to get result from input, very hard to get input from result) that takes an input and returns a hash. Salts are added onto the end to protect against rainbow tables (pre-computed hashes).

Postcode Trick

- We noticed that all postcodes are around each other. So, for example the postcode 2145 is near the postcode 2150, once we observed this and the fact that this applies to most suburbs. Then we could find all the suburbs in the area and if it's in the area for an event that was searched upon then we could return that event. For example, if an event is in Parramatta and if someone types in a postcode +15 or -15 from Parramatta's postcode – 2150.

Setup/Installation

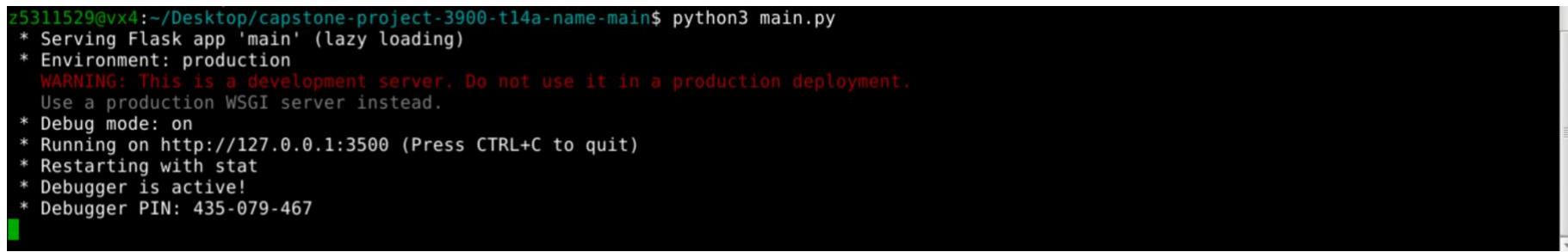


```
z5311529@vx4:~/Desktop/capstone-project-3900-t14a-name-main$ pip3 install -r requirements.txt
```

There is a simple way to install all the dependencies/libraries for this project. There is a txt file called requirements.txt

You can use the command shown in the picture above – “pip3 install -r requirements.txt”. This will install all the requirements that are needed to run this flask server.

After the dependencies/libraries are installed, use the following command to run the flask server:
“python3 main.py”



```
z5311529@vx4:~/Desktop/capstone-project-3900-t14a-name-main$ python3 main.py
 * Serving Flask app 'main' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:3500 (Press CTRL+C to quit)
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 435-079-467
```

EventAus User Manual

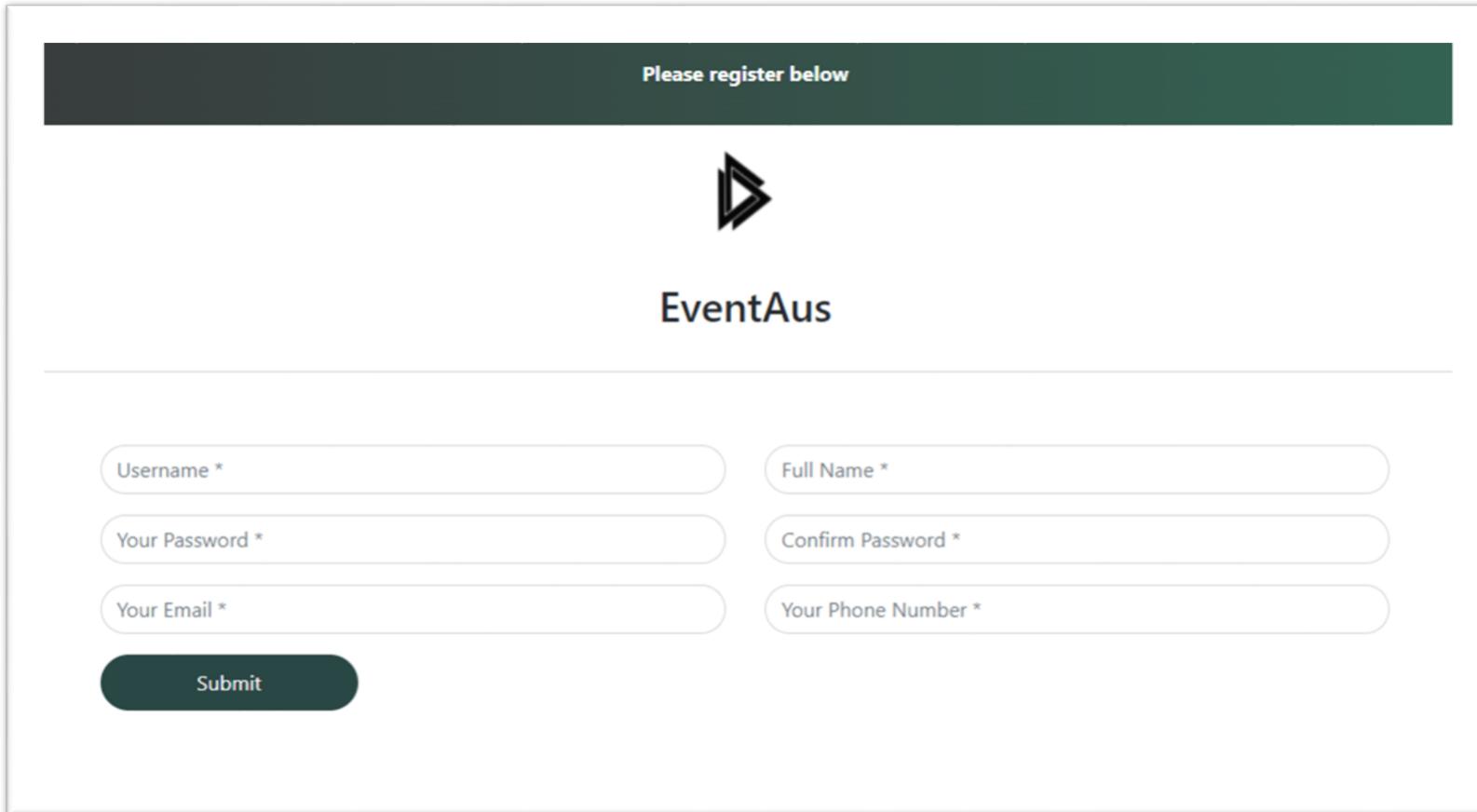
- Welcome to EventAus

The screenshot shows the homepage of the EventAus website. At the top, there is a navigation bar with the logo 'EVENTAUS' on the left, a search bar labeled 'SEARCH EVENTS' in the center, and links for 'Why EventAus?', 'Help', 'SIGN UP' (highlighted with a red circle), and 'Login' on the right. Below the navigation bar, there is a horizontal menu with categories: Home, Sports, Arts, Theatre, and Festivals (also highlighted with a red circle). The main content area displays a grid of event cards:

Lakemba Eid Festival 4/04/2022 Tickets Available: 1000 Book Tickets Add to favourites	The Batman 05/04/2022 Tickets Available: 75 Book Tickets Add to favourites New Installation of batman series
Lakemba	Parramatta Westfield
UNSW Drinks 05/04/2022 Tickets Available: 100 Book Tickets Add to favourites Free Beer	UNSW Pub Crawl 09/04/2022 Tickets Available: 100 Book Tickets Add to favourites Arc Event
UNSW	Roundhouse
F1	Spiderman

This is the homepage for any customers that visit our site. All registered and non-registered customers are allowed to browse through all the events by viewing the homepage. If they are looking for specific events, they can use the search bar function labelled as 1 in the image, or use the event type option labelled as 2 in the image. If they wish to gain an access to more functions, they can use the "Sign up" and "Login" functions labelled as 3 in the image. More instructions on how to use EventAus will be discussed in the following sections

- How to register and login



The image shows a registration form for EventAus. At the top, a dark green header bar contains the text "Please register below". Below this, there is a large, stylized black arrow pointing to the right. The word "EventAus" is centered below the arrow. The form itself has a light gray background with rounded rectangular input fields. There are two columns of three fields each. The first column contains "Username *", "Your Password *", and "Your Email *". The second column contains "Full Name *", "Confirm Password *", and "Your Phone Number *". A large, dark green "Submit" button is located at the bottom left of the form area.

Please register below

EventAus

Username *

Your Password *

Your Email *

Full Name *

Confirm Password *

Your Phone Number *

Submit

After deciding to become a registered member of EventAus. Customers will be redirected to this registration page. The customer requires to fill in the account details and contact. So that EventAus can update the customer if changes occurred for events they are involved in.

Please register below



EventAus

AlexTesting

Alex

Australia123

Australia123

alextesting1232@gmail.com

0121231234

Submit

Once all the boxes are filled, simply click submit and you will be welcomed as a newly registered member of EventAus.

How to search for particular events

EventAus allows customers to search for events in various ways. Customers can directly search the event name, or they can search up the description, postcode, location, and event type to find their desired events.

Search event by name

The screenshot shows a web browser displaying the EventAus website. At the top left is the logo 'EventAus'. To the right is a search bar containing the text 'Parramatta Fireworks', which is circled in red. Below the search bar, there is a navigation menu with links to 'Home', 'Sports', 'Arts', 'Theatre', and 'Festivals'. The main content area features a large box for the event 'Parramatta Fireworks' on 31/12/2022, with 198 tickets available. It includes two buttons: 'Book Tickets' (green) and 'Add to favourites' (black). Below the event details is a link 'Fireworks at Parramatta'. Further down is another section titled 'Parramatta River'.

Seach event by postcode

The screenshot shows a web page from EventAus. At the top left is the logo 'EventAus'. To its right is a search bar containing the number '2146', which is circled in red. Below the search bar are navigation links: Home, Sports, Arts, Theatre, and Festivals. The main content area features a card for an event titled 'Parramatta Fireworks' occurring on '31/12/2022'. It indicates 'Tickets Available: 199' and contains two buttons: 'Book Tickets' (in a green rounded rectangle) and 'Add to favourites' (in a black rounded rectangle). Below the card is a link 'Fireworks at Parramatta'. At the bottom of the card, the location 'Parramatta River' is mentioned.

Search event by location

The screenshot shows a web browser displaying the EventAus website. At the top left is the EventAus logo (a play button icon followed by the text 'EventAus'). To its right is a navigation menu with links: Home, Sports, Arts, Theatre, and Festivals. On the far right is a search bar containing the text 'Parramatta', which is circled in red. Below the search bar, the main content area features a card for an event titled 'Parramatta Fireworks' scheduled for '31/12/2022'. It indicates 'Tickets Available: 199' and contains two buttons: 'Book Tickets' (in a teal box) and 'Add to favourites' (in a black box). Below the card, there is a link labeled 'Fireworks at Parramatta'.

Parramatta

Parramatta Fireworks

31/12/2022

Tickets Available: 199

Book Tickets

Add to favourites

Fireworks at Parramatta

Parramatta River

Search event by type

The screenshot shows a website interface for 'EventAus'. At the top left is the logo 'EventAus' with a play button icon. To its right is a search bar containing the word 'Festival', which is circled in red. Below the header are navigation links: Home, Sports, Arts, Theatre, and Festivals. The main content area features two event cards.

Bondi Beach
12/05/2024
Tickets Available:
[Book Tickets](#)
[Add to favourites](#)

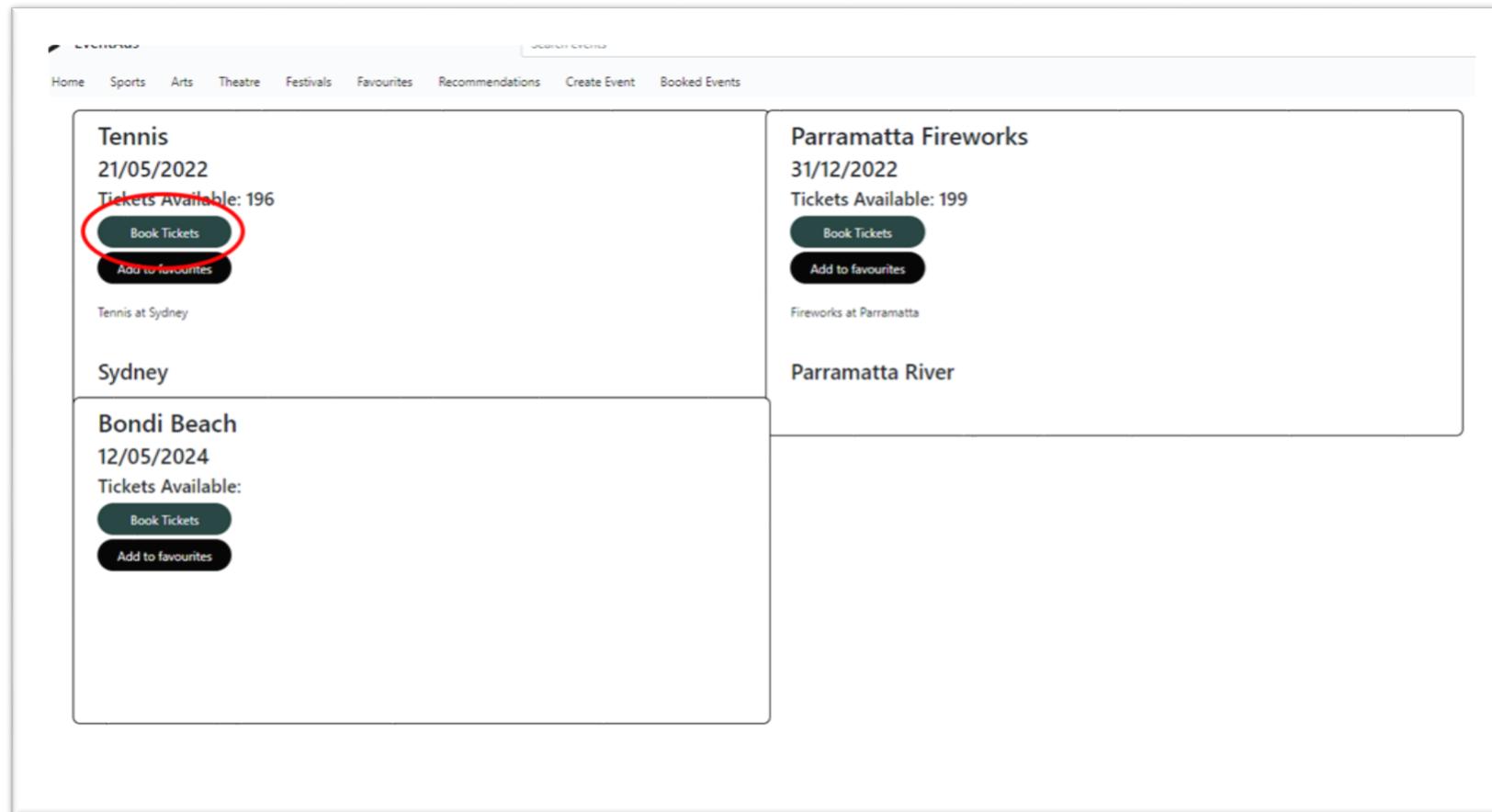
Parramatta Fireworks
31/12/2022
Tickets Available: 199
[Book Tickets](#)
[Add to favourites](#)
Fireworks at Parramatta

Parramatta River

How to book events

Once customers find their desired event, they can book tickets for the event, it follows the process below

1. Click “Book Tickets” in the event you want.



2. You will be redirected to the event information page, and click “Book Tickets” to proceed next step.

Tennis

21/05/2022 - 21/06/2022

Tickets Available: 199

Tickets Price: 20

Tennis at Sydney

Location: Sydney

Postcode: 2000

Host: ArzaanMirza2024

Reviews

Leave a review...

Leave a review

Other Events:

Bondi Beach

12/05/2024

Book Tickets

Tickets Available:

Location:

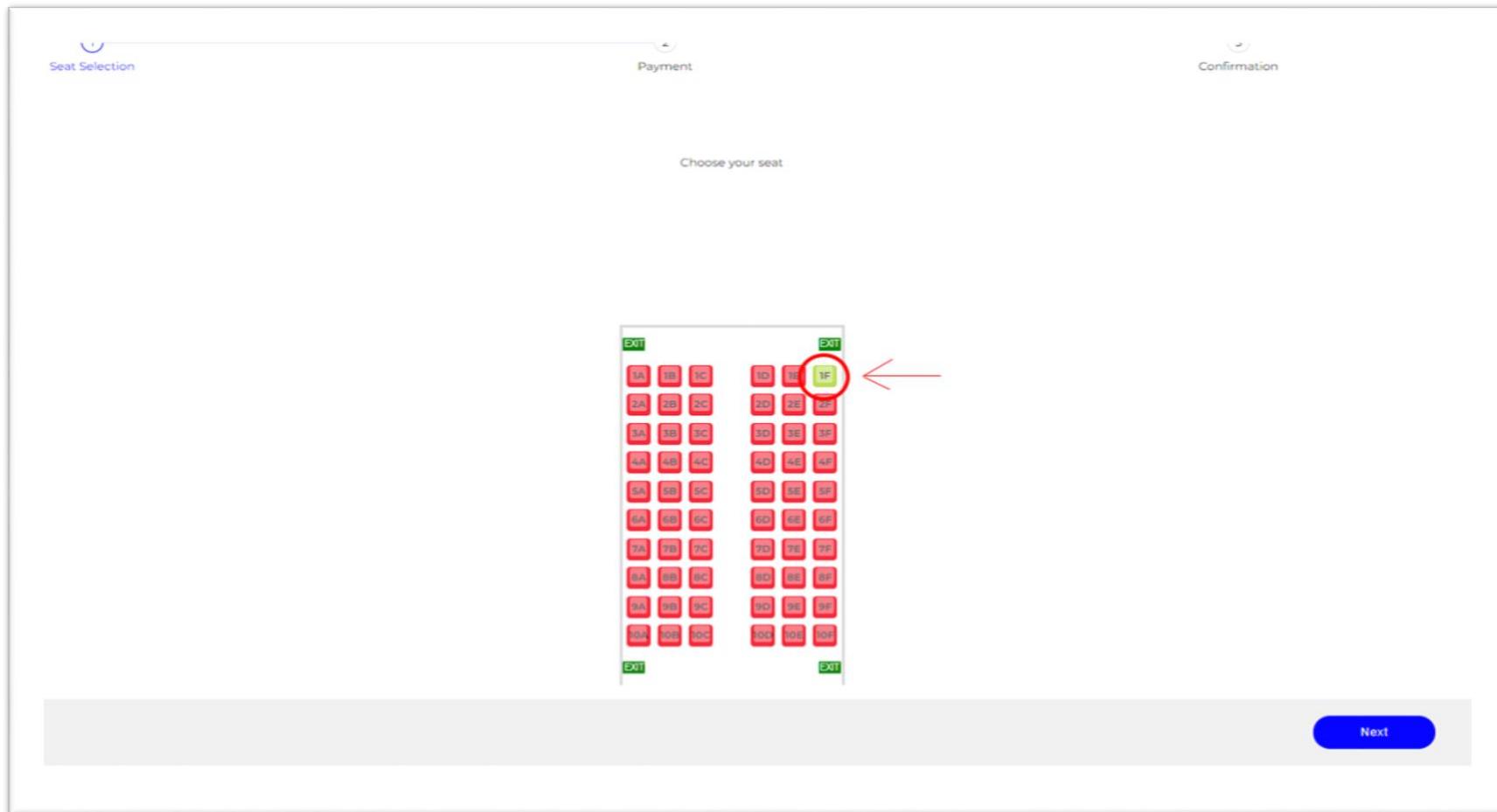
Parramatta Fireworks

31/12/2022

Book Tickets

Tickets Available: 199

3. You will be asked to select your seating position. Simply click on the seat number you like. In the example below, seat 1F is chosen.



- After the seat is selected, you will be asked to put in your transaction details to complete the payment.

The image shows a mobile payment screen with a header indicating three steps: 1. Seat Selection, 2. Payment (which is the current step), and 3. Confirmation. Below the header, the word "Checkout" is displayed. Two payment method options are shown: "Pay with credit card" (with VISA and MasterCard logos) and "Pay with PayPal". The "Pay with credit card" section contains fields for Cardholder's Name (AlexTest3), Card Number (ending in 8), Valid thru (01/2023), and CVV / CVC * (with a lock icon). A note states: "* CVV or CVC is the card security code, unique three digits number on the back of your card separate from its number." At the bottom are "Cancel" and "Pay" buttons.

1
Seat Selection

2
Payment

3
Confirmation

Checkout

VISA MasterCard

Pay with credit card

PayPal

Pay with PayPal

Cardholder's Name

AlexTest3

Valid thru

01/2023

Card Number

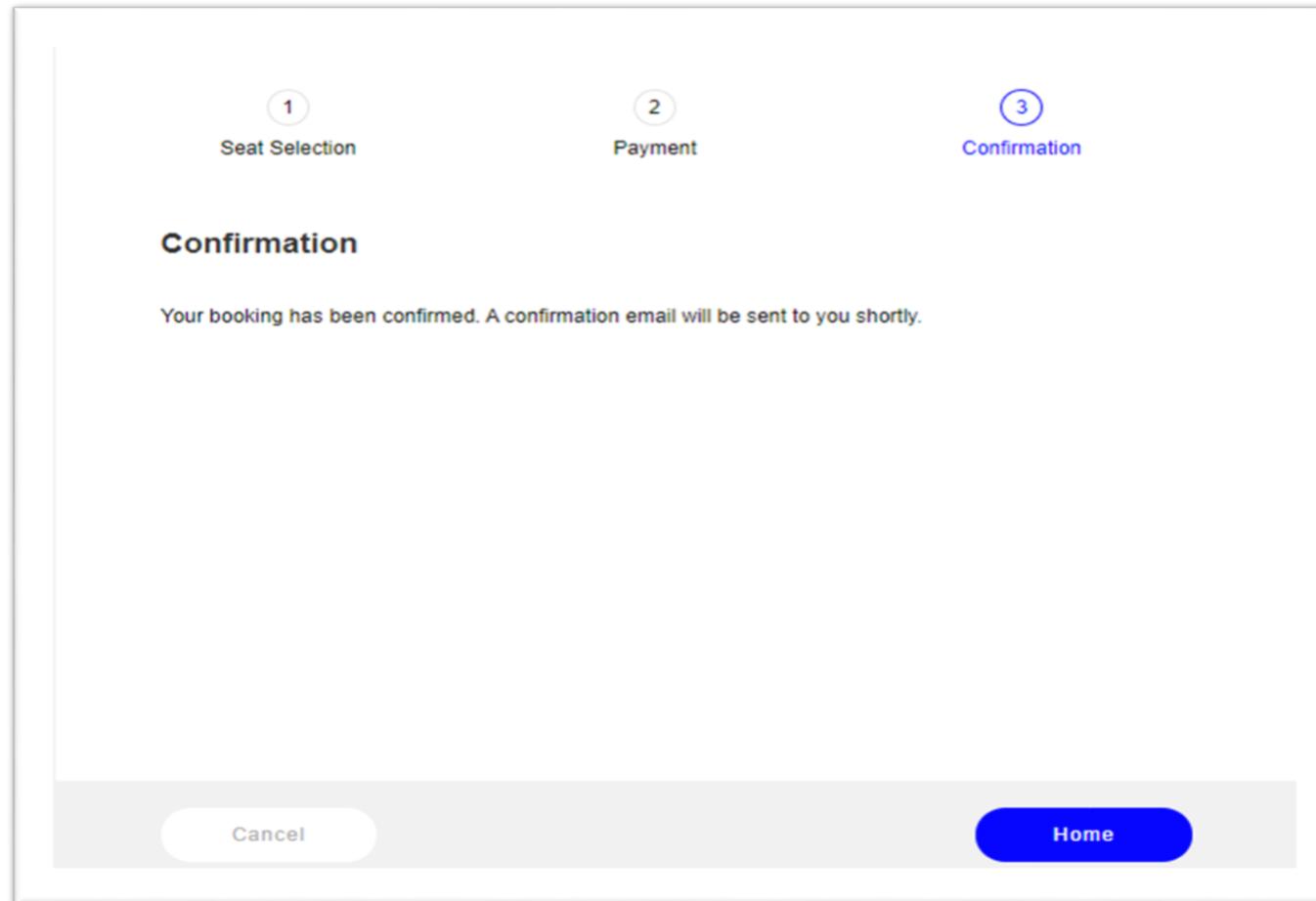
.....

CVV / CVC *

Cancel

Pay

5. The booking is complete after clicking the pay button.



6. A confirmation email is sent to your mailbox.

The screenshot shows an email inbox with a single message. The message has '(no subject)' in the subject field and 'Inbox' with a close button ('x') next to it. The recipient is 'eventunsw@gmail.com' and the recipient's name is 't, i, a, n, q, i, l, i, 0, 2, 1, 1, g, m, a, i, l, ., c, o, m'. The subject is 'Confirmation Booking <eventunsw@gmail.com>' with a 'to' dropdown arrow. The email body contains the text: 'This email is to confirm that you have booked a ticket for Tennis'. At the bottom, there are two buttons: 'Reply' with a left arrow icon and 'Forward' with a right arrow icon.

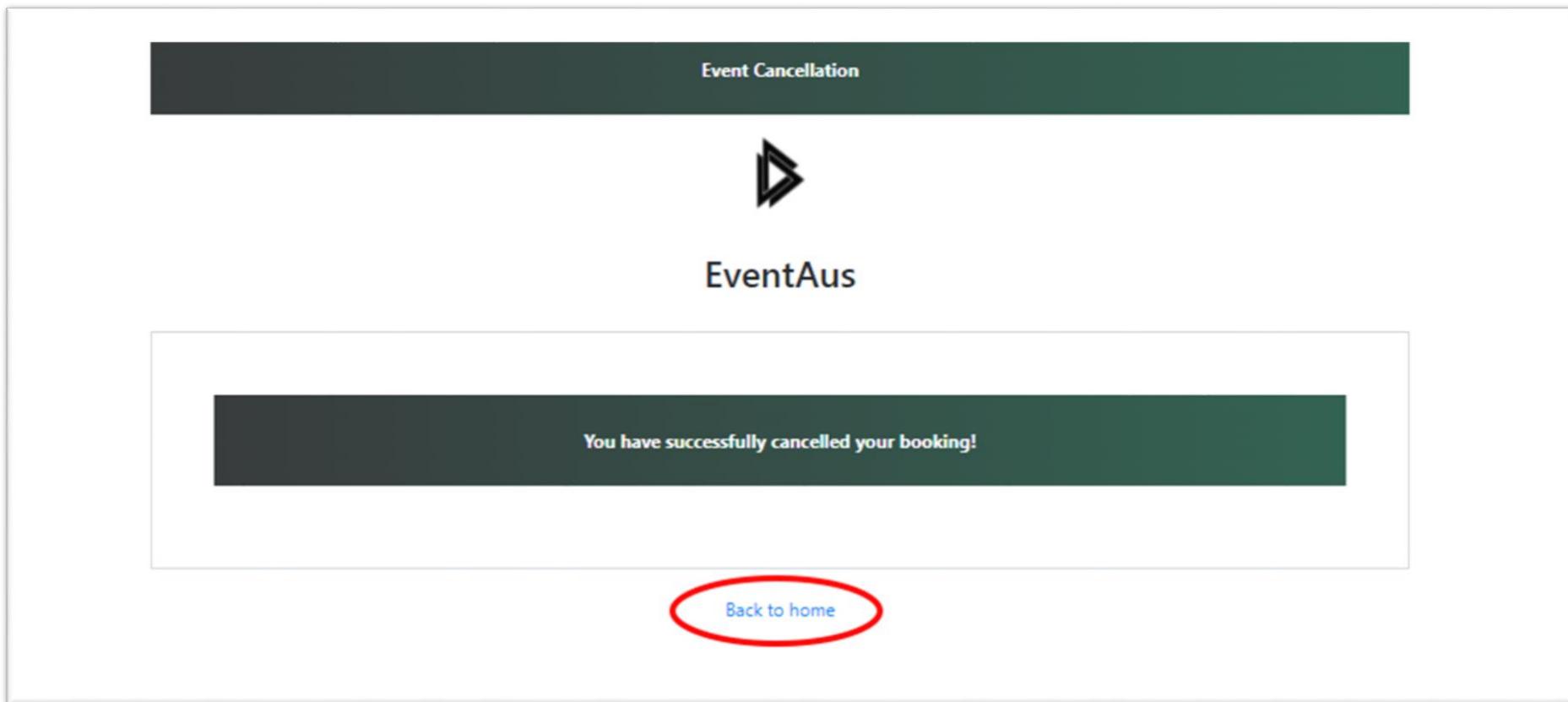
How to cancel a booking

To cancel the booking, simply click the “Booked Events” button on your homepage, it will show a list of events you have booked. (Only registered customers can have access to this list)

Click Cancel.

The screenshot shows the EventAus website's "Booked Events" section. At the top, there is a navigation bar with links for Home, Sports, Arts, Theatre, Festivals, Favourites, Recommendations, Create Event, and Booked Events. A search bar is also present. Below the navigation, the title "AlexTesting4 - Booked Events" is displayed. A specific event listing for "Tennis" on "21/05/2022" is shown, indicating "Tickets Available: 196". Two buttons are visible: a green "Book Tickets" button and a green "Cancel" button, which is circled in red. Below the event details, there is a link to "Tennis at Sydney" and the location "Sydney".

The cancellation is complete. The customer can be redirected back to the homepage by clicking “Back to home” at the bottom.



Now the Book Events list is empty; the event has been removed.

A screenshot of a web browser window. The address bar shows 'www.eventbrite.com'. The page title is 'AlexTesting4 - Booked Events'. The navigation menu includes 'Home', 'Sports', 'Arts', 'Theatre', 'Festivals', 'Favourites', 'Recommendations', 'Create Event', and 'Booked Events'. Below the menu, there is a search bar with the placeholder 'Search events, artists, and more...'. The main content area is titled 'Booked Events' and contains the message 'There are currently no events in your Booked Events list.' There is also a link 'View my profile'.

How to create an event

To create an event, customers can click the “Create Event” shown in the diagram.

The screenshot shows the homepage of the EventAus website. At the top, there is a navigation bar with links: Home, Sports, Arts, Theatre, Festivals, Favourites, Recommendations, Create Event (which is circled in red), and Booked Events. A search bar labeled "Search events" is positioned above the navigation bar. Below the navigation, there are four event cards displayed in a grid:

- Tennis**
21/05/2022
Tickets Available: 196
[Book Tickets](#)
[Add to favourites](#)
Tennis at Sydney
- Parramatta Fireworks**
31/12/2022
Tickets Available: 199
[Book Tickets](#)
[Add to favourites](#)
Fireworks at Parramatta
- Sydney**
Bondi Beach
12/05/2024
Tickets Available:
[Book Tickets](#)
[Add to favourites](#)
- Parramatta River**

Then the customer will be directed to the create event page. Customers are required to fill out the information of the event below to complete the event creation process.

Please fill in following information to create your event



EventAus

Event Title *

Select Event Types *

Event Description *

Event Venue *

Start Date *

Available Tickets *

End Date *

Ticket Price *

Create!

Information has been entered then click “Create!”

Please fill in following information to create your event


EventAus



Now everyone can see the newly created event on the homepage.

The screenshot shows the EventAus homepage with a navigation bar at the top. Below the navigation, there are two main event cards displayed side-by-side.

Sydney Opera House (Highlighted by a red box):

- Date:** 13/04/2022
- Tickets Available:** 100
- Book Tickets** button
- Add to favourites** button
- Category:** Music
- Description:** Sydney Opera House
- Event Details:** EventAus User Manual, 1/1/2026, Tickets Available: 1000, Book Tickets, Add to favourites
- Notes:** Guide to use EventAus create event feature
- Location:** UNSW

Rod Laver Arena:

- Date:** 28/01/2023
- Tickets Available:** 1000
- Book Tickets** button
- Add to favourites** button
- Description:** Final of the Mens Australian Open
- Location:** Rod Laver Arena

How to save an event as your favourite

Simply click on “Add to favourites” (labelled as 1), and the event will be stored in the customer’s favourites list. To view the favourite list click “Favourites” (labelled as 2)

The screenshot shows a grid of six events on the EventAus website. The top row contains two events: "Lakemba Eid Festival" and "The Batman". The bottom row contains four events: "UNSW Drinks", "UNSW Pub Crawl", "F1", and "Spiderman". Each event card includes a "Book Tickets" button and an "Add to favourites" button. Red circles with numbers 1 and 2 indicate specific actions: 1 points to the "Add to favourites" button for the Lakemba Eid Festival, and 2 points to the "Favourites" link in the top navigation bar.

Lakemba Eid Festival 4/04/2022 Tickets Available: 1000 Book Tickets Add to favourites ¹	The Batman 05/04/2022 Tickets Available: 75 Book Tickets Add to favourites
UNSW Drinks 05/04/2022 Tickets Available: 100 Book Tickets Add to favourites	UNSW Pub Crawl 09/04/2022 Tickets Available: 100 Book Tickets Add to favourites
F1	Spiderman

We can see that the event has been successfully added to the favourite list.

The screenshot shows a web browser displaying the EventAus website. The header includes the logo 'EventAus' and a search bar labeled 'Search events'. Below the header is a navigation menu with links to 'Home', 'Sports', 'Arts', 'Theatre', and 'Festivals'. The main content area features a section titled 'AlexTesting - Favourites'. Within this section, there is a card for the 'Lakemba Eid Festival'. The card displays the event name, date ('4/04/2022'), and ticket availability ('Tickets Available: 1000'). It also contains two buttons: 'Book Tickets' and 'Remove - Favourites'. The 'Remove - Favourites' button is highlighted with a red rectangle, indicating it has been interacted with. Below the card, the word 'Lakemba' is visible.

How to write reviews of an event

To write a review for an event, go to the event information page by clicking "Book Tickets"

The screenshot shows a web-based event listing interface. At the top, there's a navigation bar with links: Home, Sports, Arts, Theatre, Festivals, Favourites, Recommendations, Create Event, and Booked Events. Below the navigation, there are three event cards.

- Tennis**
21/05/2022
Tickets Available: 196
[Book Tickets](#) (button circled in red)
[Add to favourites](#)
Tennis at Sydney
- Parramatta Fireworks**
31/12/2022
Tickets Available: 199
[Book Tickets](#)
[Add to favourites](#)
Fireworks at Parramatta
- Sydney**
Bondi Beach
12/05/2024
Tickets Available:
[Book Tickets](#)
[Add to favourites](#)

The redline boxed area is where customers put down their reviews

The image shows a mobile application interface. At the top left, there is event information: "Location: Sydney", "Postcode: 2000", and "Host: ArzaanMirza2024". Below this, a red rectangular box highlights the "Reviews" section. This section contains a text input field with placeholder text "Leave a review..." and a dark green button labeled "Leave a review". To the right of the reviews section is another card for an event titled "Parramatta Fireworks". The card includes the date "31/12/2022", a "Book Tickets" button, and the text "Tickets Available: 199". Below the date is the location "Fireworks at Parramatta". At the bottom of the card is the text "Location: Parramatta River".

Location: Sydney

Postcode: 2000

Host: ArzaanMirza2024

Reviews

Leave a review...

Leave a review

Parramatta Fireworks

31/12/2022

Book Tickets

Tickets Available: 199

Fireworks at Parramatta

Location: Parramatta River

Registered customers can enter their messages and click “Leave a review”

Tennis at Sydney

Location: Sydney

Postcode: 2000

Host: ArzaanMirza2024

Reviews

Leave a review...

Hello!

Leave a review

Bondi Beach

12/05/2024

Book Tickets

Tickets Available:

Location:

Parramatta Fireworks

31/12/2022

Book Tickets

Tickets Available: 199

Fireworks at Parramatta

Location: Parramatta River

The review then will be published on the event information page.

The screenshot displays a user interface for managing reviews and viewing event details. On the left, a 'Reviews' section is shown with a text input field labeled 'Leave a review...', a 'Leave a review' button, and a list of existing reviews. One specific review is highlighted with a red oval: 'Review left by AlexTest3 on 2022-04-19' followed by the text 'Leave a review... Hello'. Below this are 'Edit this review' and 'Reply to this review' buttons. On the right, an event page for 'Parramatta Fireworks' is displayed, showing the date '31/12/2022', a 'Book Tickets' button, and the text 'Tickets Available: 199'. It also includes the location 'Fireworks at Parramatta' and 'Location: Parramatta River'.

Reviews

Leave a review...

Leave a review

Review left by AlexTest3 on 2022-04-19

Leave a review... Hello

Edit this review

Reply to this review

Parramatta Fireworks

31/12/2022

Book Tickets

Tickets Available: 199

Fireworks at Parramatta

Location: Parramatta River

To edit the review, click on “Edit this review”

The image shows a user interface with two main sections. On the left, there's a "Reviews" section with a text input field and a "Leave a review" button. Below it is a review card for "AlexTest3". On the right, there's a card for "Parramatta Fireworks" with a "Book Tickets" button.

Reviews

Leave a review...

Leave a review

Review left by AlexTest3 on 2022-04-19

Leave a review... Hello

Edit this review

Reply to this review

Parramatta Fireworks

31/12/2022

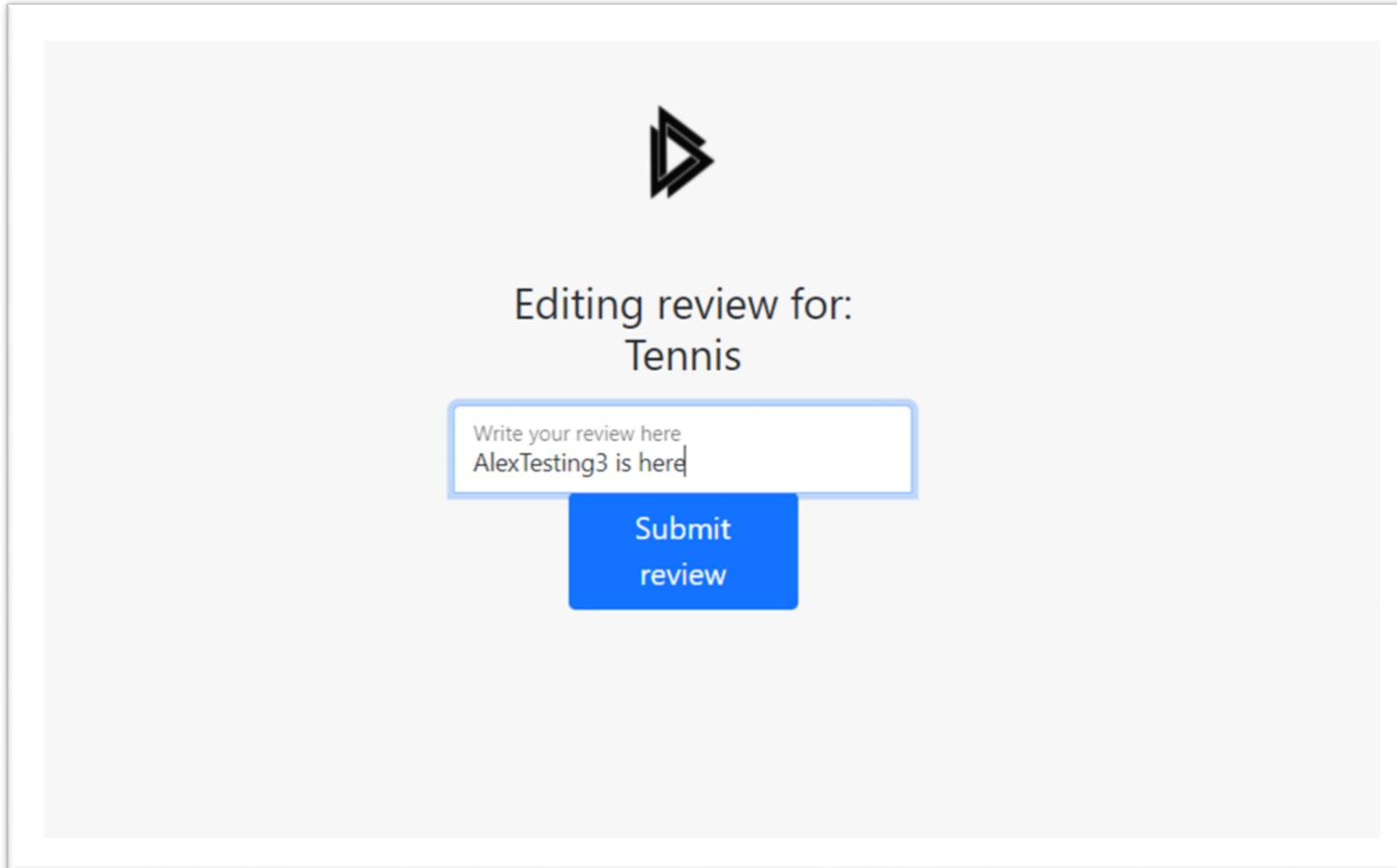
Book Tickets

Tickets Available: 199

Fireworks at Parramatta

Location: Parramatta River

The customer then will be redirected to this screen. Enter the new review into the textbox and click “Submit review”.



Now we can see the review has been changed

The screenshot shows a user interface for leaving a review. At the top, there is a placeholder text box labeled "Leave a review..." and a dark green "Leave a review" button. Below this, a specific review is displayed in a box with a black border. The review is titled "Review left by AlexTest3 on 2022-04-19". It includes the text "AlexTesting3 is here" and "Edited on 2022-04-19". There are two dark green buttons below the review: "Edit this review" and "Reply to this review".

Reviews

Leave a review...

Leave a review

Review left by AlexTest3 on 2022-04-19

AlexTesting3 is here
Edited on 2022-04-19

Edit this review

Reply to this review

If another customer wants to reply to a review from another customer. Click "Reply to this review".

Reviews

Leave a review...

Leave a review

Review left by AlexTest3 on 2022-04-19

Leave a review... Hello

Edit this review

Reply to this review

Parramatta Fireworks

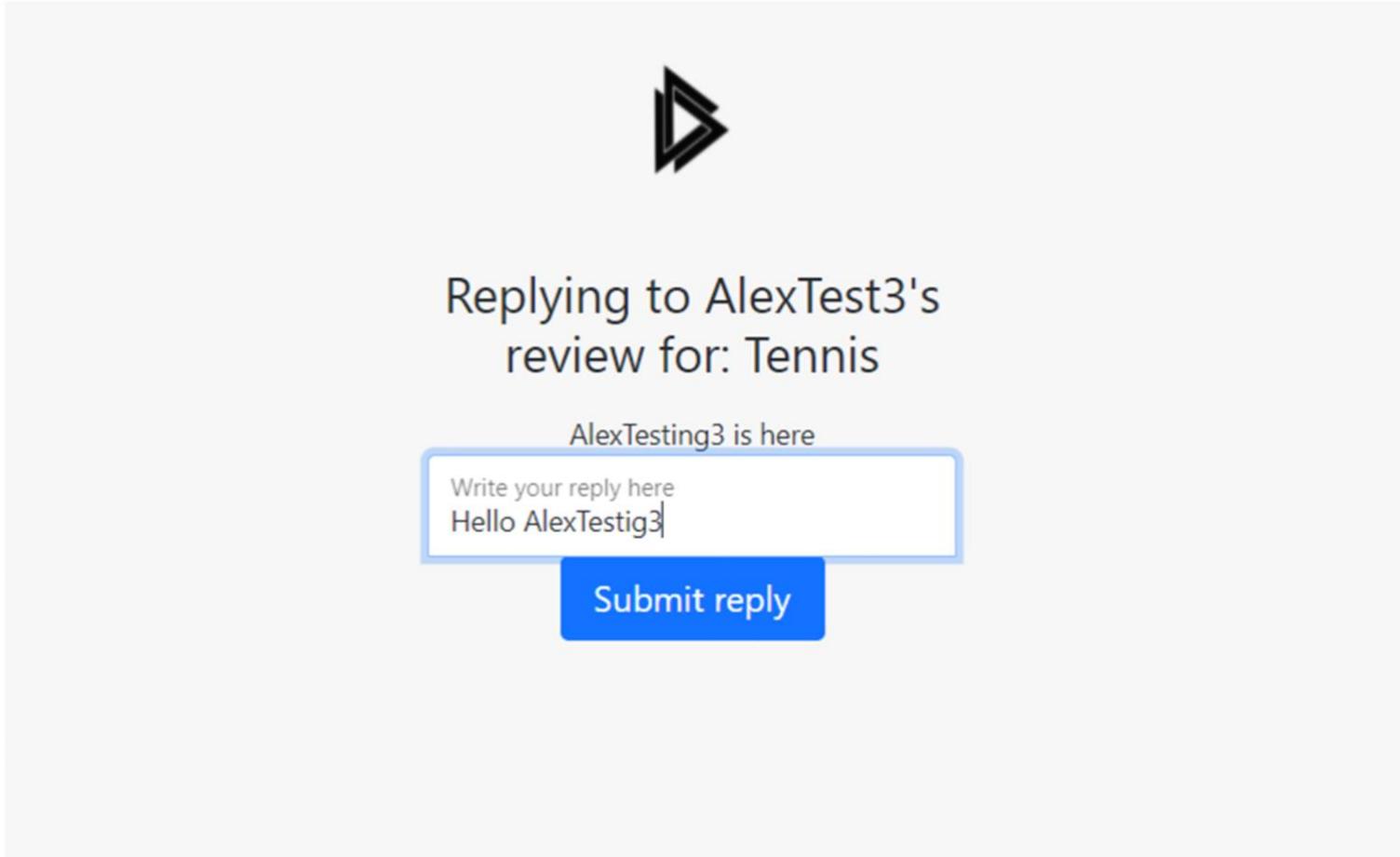
31/12/2022 Book Tickets

Tickets Available: 199

Fireworks at Parramatta

Location: Parramatta River

The customer then will be redirected to this screen. Enter the message into the textbox and click "Submit reply"



A reply screen placeholder showing a large play button icon at the top, followed by a title, a message input field with placeholder text, and a blue 'Submit reply' button.

Replying to AlexTest3's
review for: Tennis

AlexTesting3 is here

Write your reply here

Hello AlexTestig3

Submit reply

The reply has been successfully published

Reviews

Leave a review...

Leave a review

Review left by AlexTest3 on 2022-04-19

AlexTesting3 is here
Edited on 2022-04-19

Reply left by host on 2022-04-19

Hello AlexTestig3

[Edit this review](#)

[Reply to this review](#)

How to use event recommendations?

Events that have similar types, locations, and hosts will be added to a customer's recommendation list. For example, a customer has booked a Parramatta Chinese Festival event.

Home Sports Arts Theatre Festivals Favourites Recommendations Create Event Booked Events

Tennis
21/05/2022
Tickets Available: 195
[Book Tickets](#)
[Add to favourites](#)

Tennis at Sydney

Sydney

Parramatta Fireworks
31/12/2022
Tickets Available: 196
[Book Tickets](#)
[Add to favourites](#)

Fireworks at Parramatta

Parramatta River

Parramatta Chinese Festival
1/1/2023
Tickets Available: 1000
[Book Tickets](#) (circled)
[Add to favourites](#)

Chinese Festival

Paramatta

Event Parramatta Fireworks that have the same type and location will be automatically added to the recommendation list.

The screenshot shows a website interface for 'EventAus'. At the top, there is a navigation bar with links: Home, Sports, Arts, Theatre, Festivals, Favourites, **Recommendations**, Create Event, and Booked Events. A red circle highlights the 'Recommendations' link. To the right of the navigation bar is a search bar labeled 'Search events'. Below the navigation bar, the page title is 'AlexTest2 - Recommendations'. The main content area displays two event cards. The first card is for 'Parramatta Fireworks' on 31/12/2022, with 196 tickets available. It features a 'Book Tickets' button and a link to 'Fireworks at Parramatta'. The second card is for 'Parramatta River'. Both cards are contained within a large rectangular container with rounded corners.

Parramatta Fireworks
31/12/2022
Tickets Available: 196
[Book Tickets](#)

Fireworks at Parramatta

Parramatta River

Event nearby

Other events that are happening closest to the current date will also be shown on the side when customers are browsing the event information page

Parramatta Chinese Festival

1/1/2023 - 1/2/2023

Tickets Available: 999

Tickets Price: 1

Chinese Festival

Location: Parramatta

Postcode: 2150

Host: AlexTest3

Reviews

Leave a review...

Leave a review

Other Events:

Parramatta Fireworks

31/12/2022

Book Tickets

Tickets Available: 196

Fireworks at Parramatta

Location: Parramatta River

Parramatta Food

1/1/2026

Book Tickets

Tickets Available: 1000000

Food

Location: Parramatta

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4. Amazon Web Services, Inc. n.d. *Amazon DynamoDB Local License Agreement*. [online] Available at: <<https://aws.amazon.com/dynamodb/dynamodblocallicense/>>.