



**UNIVERSITI TEKNOLOGI MALAYSIA, 81310, UTM JOHOR BAHRU, JOHOR,  
MALAYSIA**

**SECD2523-03 (DATABASE)**

**Section - 03**

**GROUP CAPYBARA**

**PROJECT PHASE 3**

<b>STUDENTS NAME</b>	<b>NO. MATRIC</b>
DANIAL ERFAN SHAH BIN NOR AZAM SHAH	A22EC0151
MEGAT MUHAMMAD ZAFRAN BIN MEGAT MUAZZAM	A22EC0194
MUHAMMAD ARIF FIKRY BIN NOOR KHARIZAN	A22EC0203
ADAM FAHMI BIN MOHD ADNAN	A22EC0032
RUBILLAN A/L SUKUMAHARAN	A22EC0266

**LECTURER'S NAME :**

**DR. IZYAN IZZATI BINTI KAMSANI**

# **Table Of Contents**

<b>1.0 Introduction</b>	<b>3</b>
<b>2.0 Overview</b>	<b>4</b>
<b>3.0 Database Conceptual Design</b>	<b>5</b>
<b>3.1 Updated Business Rule</b>	<b>5</b>
<b>3.2 Conceptual ERD</b>	<b>6</b>
<b>4.0 Database Logical Design</b>	<b>7</b>
<b>4.1 Logical ERD</b>	<b>7</b>
<b>4.3 Updated Data Dictionary</b>	<b>9</b>
<b>4.4 Normalization</b>	<b>11</b>
<b>5.0 Relational DB Schemas</b>	<b>13</b>
<b>6.0 Interface Design</b>	<b>14</b>
<b>7.0 SQL Statements (DDL &amp; DML)</b>	<b>27</b>
<b>Conclusion</b>	<b>47</b>

## **1.0 Introduction**

Nexscholar is a basic social platform that facilitates connections among students and clients. Some may say that Nexscholar is similar to social media giants like Facebook, Twitter, and Instagram due to its similar features. The current social media landscape faces criticism for its misuse among university students and spreading hate and anger. Nexscholar aims to harness the positive aspects of social media while incorporating an interactive learning approach. Becoming a social media platform is one of Nexscholar's primary objectives.

Besides that, the website features are divided into several categories, including post-graduate, undergraduate, researcher, and job search, each tailored to the specific needs of its users. Certain features may be unique to one another as all of them have different requirements from users.

Nexscholar aspires to be an all-in-one hub for students and lecturers to connect, share ideas, and engage in learning activities. The platform seeks to reduce the barriers between students and lecturers, cultivating inspiring and engaging interaction.

Despite its noble goals, Nexscholar faces challenges and is far from being a perfect website. As mentioned, it is a newborn website focusing on fundamental functionality without offering many advanced features. This report aims to address the issues Nexscholar is facing, particularly in event management, and propose efficient solutions to help it contrive into a better future.

## **2.0 Overview**

Nexscholar is a basic social platform that facilitates connections among students and clients. Some may say that Nexscholar is similar to social media giants like Facebook, Twitter, and Instagram due to its similar features. The current social media landscape faces criticism for its misuse among university students and the spewing of hate and anger. Nexscholar aims to harness the positive aspects of social media while incorporating an interactive learning approach. Becoming a social media platform is one of Nexscholar's primary objectives.

Besides that, the website features are divided into several categories, including post-graduate, undergraduate, researcher, and job search, each tailored to the specific needs of its users. Certain features may be unique to one another as all of them have different requirements from users.

Nexscholar aspires to serve as an all-in-one hub for students and lecturers to connect, share ideas, and engage in their learning activities. The platform seeks to reduce the barriers between students and lecturers, hence cultivating an inspiring and engaging interaction.

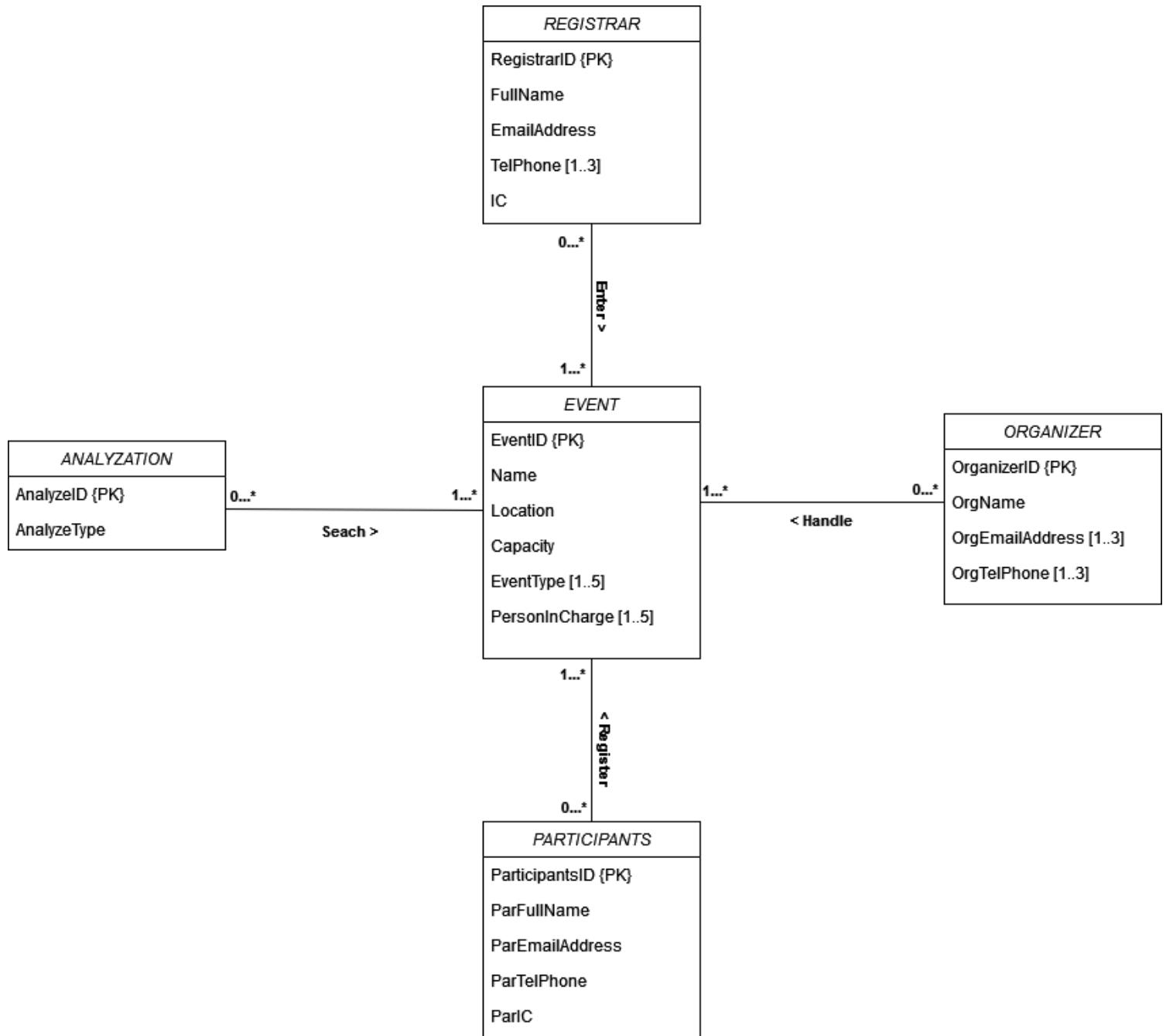
Despite its noble goals, Nexscholar faces challenges and is far from being a perfect website. As mentioned earlier, it is a newborn website that focuses on fundamental functionality without offering many advanced features. This report aims to address the issues Nexscholar is facing, particularly in event management, and propose efficient solutions to help it contrive into a better future.

## **3.0 Database Conceptual Design**

### **3.1 Updated Business Rule**

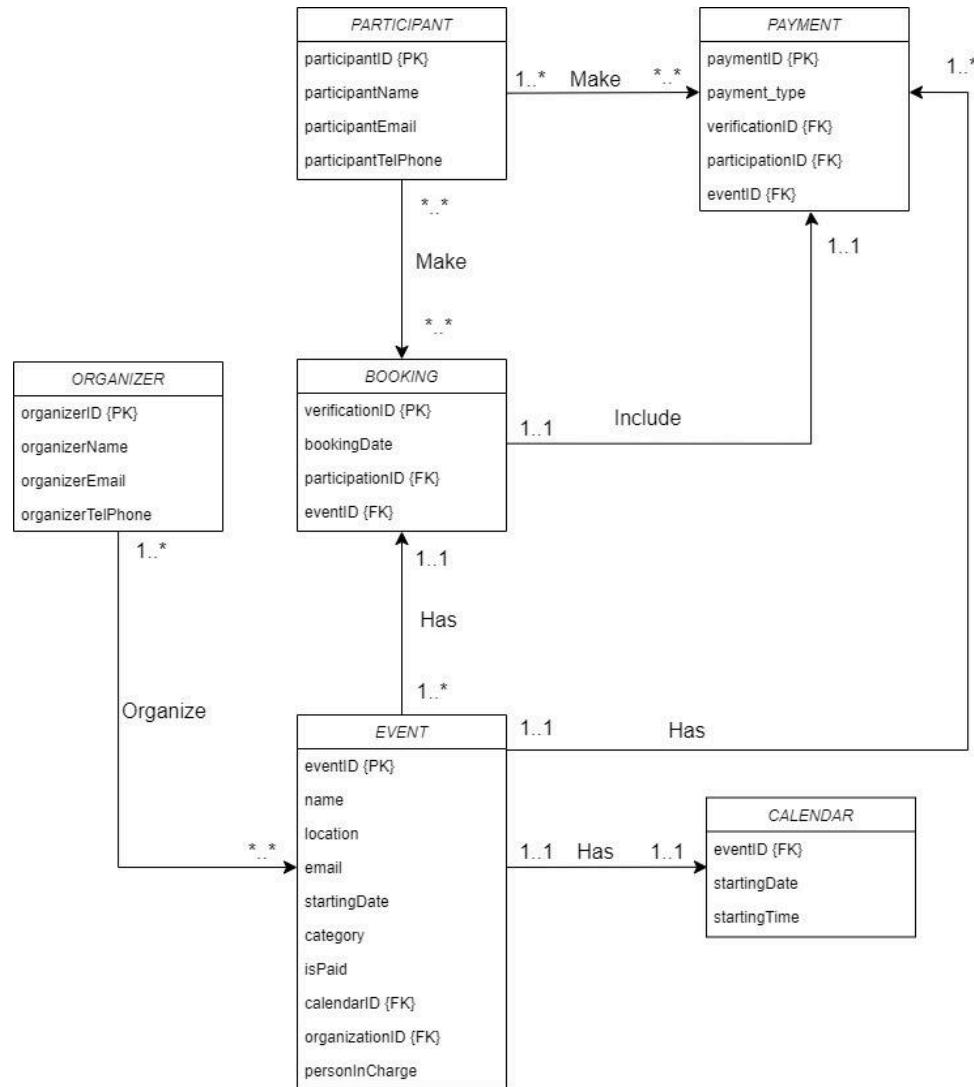
1. The system is working almost 23 hours nonstop
2. Maintenance can be done every 3 am until 4 am
3. Organizers need to contact the Registrar to publish an event
4. Organizers must provide the information regarding the Merchant details and Payment details which is mandatory for all Organizers who wish to promote their event with us.
5. The registrar must receive complete event information, including Person In Charge (PIC)
6. Only selected people in Registrar and Organizer are able to publish an event on the website.
7. Paid event will be included with merchant details that is encrypted
8. Participants will need to register themselves on the website before participating in any event
9. Participants' payment towards the organizer merchant will be recorded
10. Participants must have a valid bank account to pay to register for a paid event
11. Only one participant is able to pay for their own paid event, third party payment is not allowed.
12. Every registered participant will be included with a verification ID
13. Participants are able to see all the information regarding the events in the website but they are not able to modify it
14. Each participant will have a calendar interface that shows the upcoming events that they joined
15. Every event that exists in the website must have a valid date and time as it is mandatory.
16. All events can be analyzed
17. To do an analysis in the database, information of what to analyze must be inputted.
18. Participants are unable to use and see the analyzation feature as they do not have enough clearance

### 3.2 Conceptual ERD

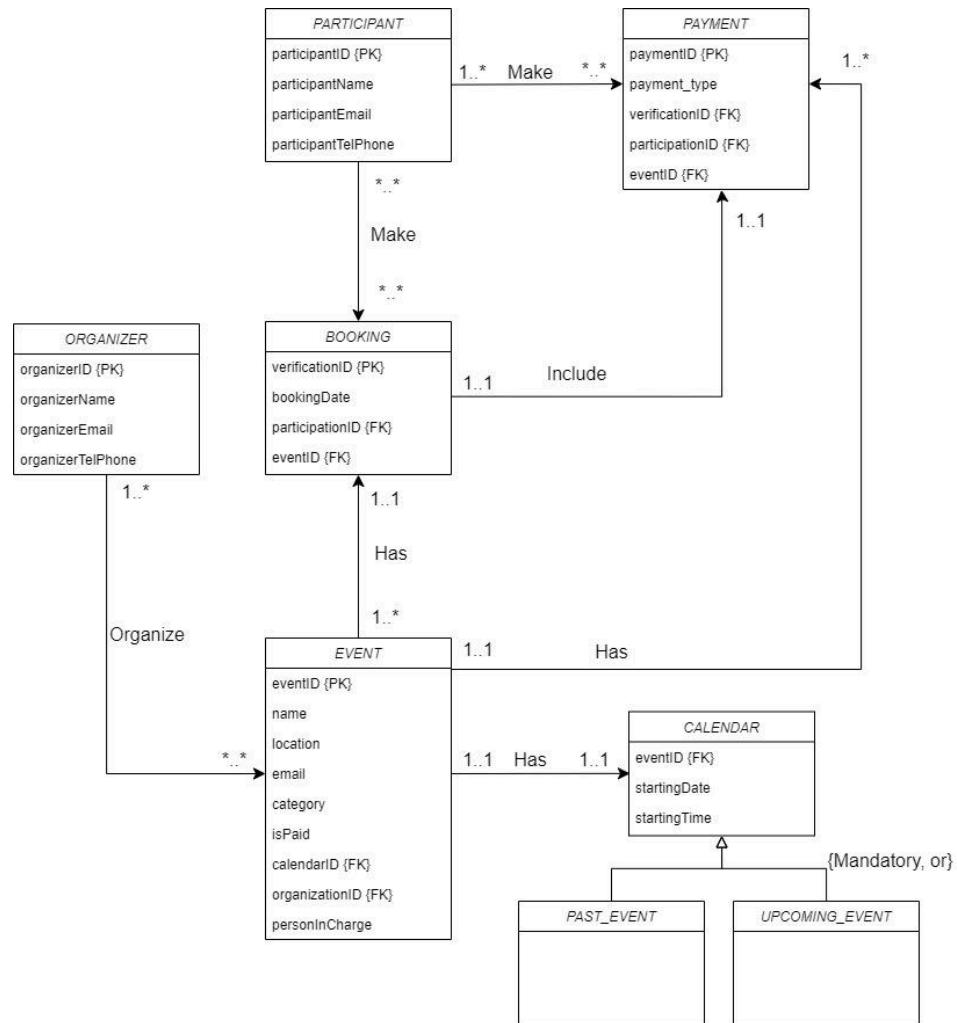


## 4.0 Database Logical Design

### 4.1 Logical ERD



## 4.2 Enhanced ERD



### 4.3 Updated Data Dictionary

Entity Name	Attributes	Data Type & Length	Nulls	Constraint
EVENT	eventID	VARCHAR2(15)	No	PRIMARY KEY
	name	VARCHAR2(100)	No	NOT NULL
	location	VARCHAR2(100)	No	NOT NULL
	email	VARCHAR2(100)	No	NOT NULL
	category	VARCHAR2(100)	No	NOT NULL
	isPaid	VARCHAR2(1)	No	NOT NULL
	organizationID	VARCHAR2(15)	No	FOREIGN KEY
	personInCharge	VARCHAR2(100)	No	NOT NULL
PAYMENT	paymentID	VARCHAR2(15)	No	PRIMARY KEY
	payment_type	VARCHAR2(15)	No	NOT NULL
	verificationID	VARCHAR2(15)	No	FOREIGN KEY
	participationID	VARCHAR2(15)	No	FOREIGN KEY
	eventID	VARCHAR2(15)	No	FOREIGN KEY
BOOKING	verificationID	VARCHAR2(15)	No	PRIMARY KEY
	bookingDate	DATE	No	NOT NULL
	participantID	VARCHAR2(15)	No	FOREIGN KEY
	eventID	VARCHAR2(15)	No	FOREIGN KEY

ORGANIZER	organizerID	VARCHAR2(15)	No	PRIMARY KEY
	organizerName	VARCHAR2(100)	No	NOT NULL
	organizerEmail	VARCHAR2(100)	No	NOT NULL
	organizerTelPhone	VARCHAR2(12)	No	NOT NULL
PARTICIPANT	participantID	VARCHAR2(15)	No	PRIMARY KEY
	participantName	VARCHAR2(100)	No	NOT NULL
	participantEmail	VARCHAR2(100)	No	NOT NULL
	participantTelPhone	VARCHAR2(15)	No	NOT NULL
CALENDAR	calendarID	VARCHAR2(15)	No	PRIMARY KEY
	startingDate	DATE	No	NOT NULL
	eventID	VARCHAR2(15)	No	FOREIGN KEY

#### 4.4 Normalization

1. ORGANIZER (organizerID, organizerName, organizerEmail, organizerTelPhone)  
**fd1:** organizerID → organizerName, organizerEmail, organizerTelPhone  
**1NF & 2NF & 3NF & BCNF:**  
ORGANIZER (organizerID, organizerName, organizerEmail, organizerTelPhone)
2. PARTICIPANT (participantID, participantName, participantEmail, participantTelPhone)  
**fd1:** participantID → participantName, participantEmail, participantTelPhone  
**1NF & 2NF & 3NF & BCNF:**  
PARTICIPANT (participantID, participantName, participantEmail, participantTelPhone)
3. EVENT (eventID, name, location, email, category, isPaid, organizationID, personInCharge)  
**fd1:** eventID → name, location, email, category, isPaid, organizationID  
**1NF & 2NF & 3NF & BCNF:**  
EVENT (eventID, name, location, email, category, isPaid, organizationID, personInCharge)
4. BOOKING (verificationID, bookingDate, participationID, eventID)  
**fd1:** verificationID → bookingDate, participationID, eventID  
**1NF & 2NF & 3NF & BCNF:**  
BOOKING (verificationID, bookingDate, participationID, eventID)
5. PAYMENT (paymentID, payment\_type, verificationID, participationID, eventID)  
**fd1:** paymentID → payment\_type, verificationID, participationID, eventID  
**1NF & 2NF & 3NF & BCNF:**  
PAYMENT (paymentID, payment\_type, verificationID, participationID, eventID)
6. CALENDAR (calendarID, eventID, startingDate)  
**fd1:** eventID → startingDate  
**1NF & 2NF & 3NF & BCNF:**  
CALENDAR (calendarID, eventID, startingDate)
7. PAST\_EVENT (calendarID, eventID, startingDate)  
**fd1:** eventID → startingDate  
**1NF & 2NF & 3NF & BCNF:**  
PAST\_EVENT (calendarID, eventID, startingDate)

8. UPCOMING\_EVENT (calendarID, eventID, startingDate)

**fd1:** eventID → startingDate

**1NF & 2NF & 3NF & BCNF:**

UPCOMING\_EVENT (calendarID,eventID, startingDate)

## 5.0 Relational DB Schemas

Right after the normalization process here is what he have come up with for relational database schema of this project.

ORGANIZER (organizerID, organizerName, organizerEmail, organizerTelPhone)

PARTICIPANT (participantID, participantName, participantEmail, participantTelPhone)

EVENT (eventID, name, location, email, category, isPaid, calendarID, organizationID, personInCharge)

BOOKING (verificationID, bookingDate, participationID, eventID)

PAYMENT (paymentID, payment\_type, verificationID, participationID, eventID)

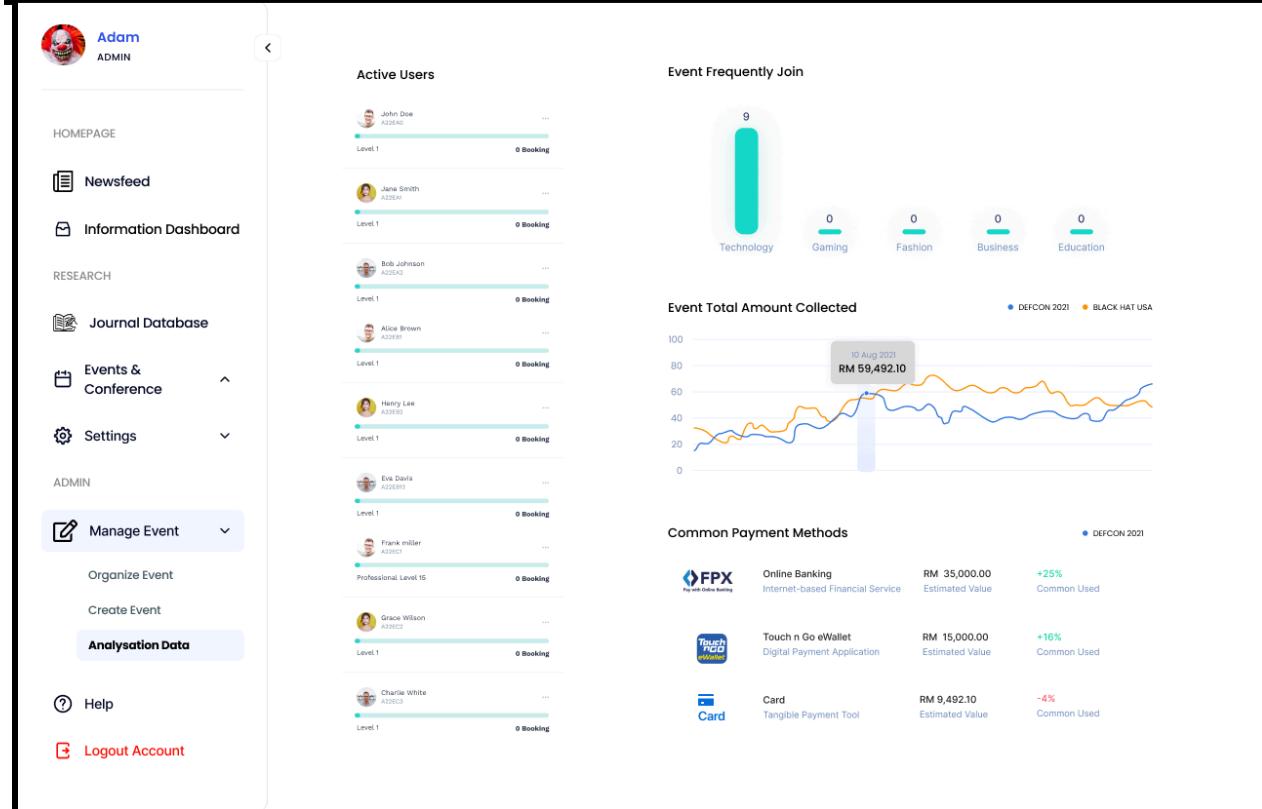
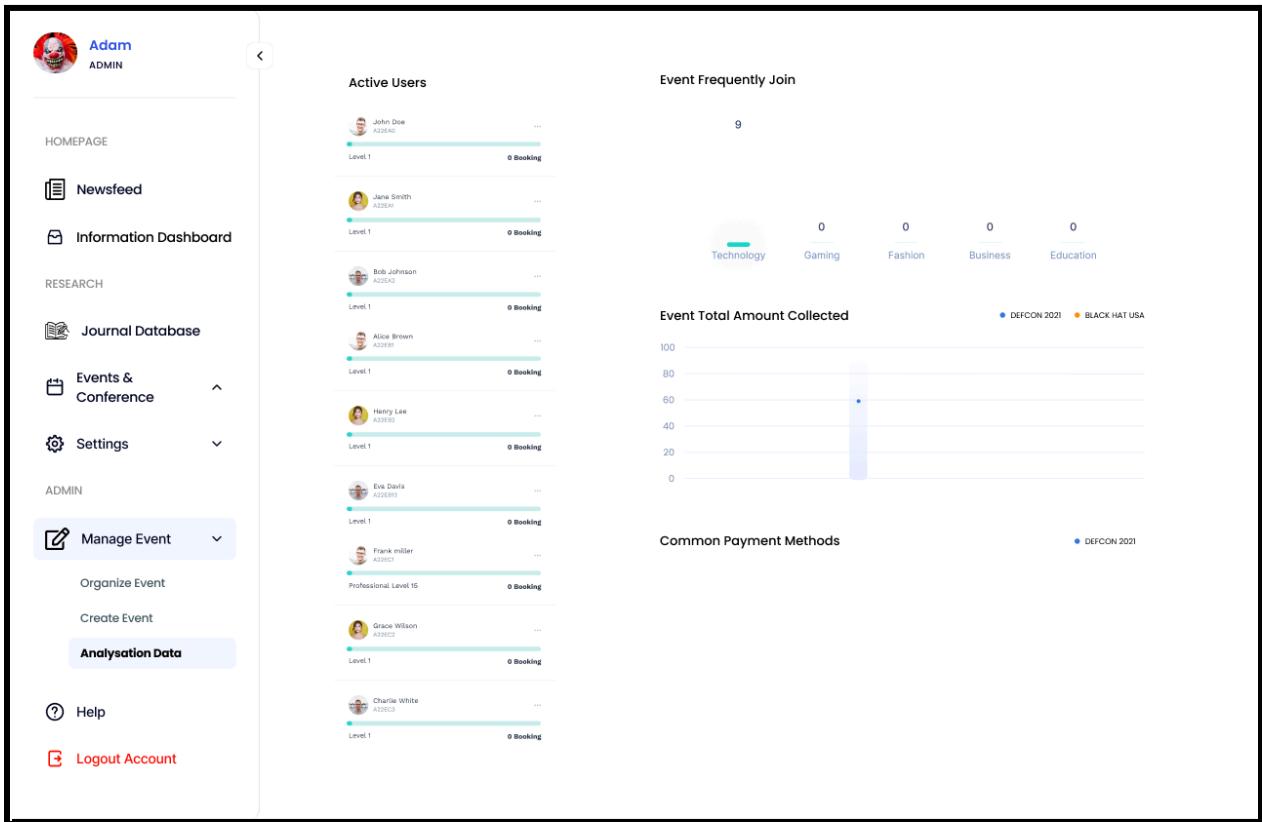
CALENDAR (calendarID, startingDate, eventID)

PAST\_EVENT (calendarID, startingDate, eventID)

UPCOMING\_EVENT(calendarID, startingDate, eventID)

## 6.0 Interface Design

### Process 1 (Analyze Data)



## Process 2: (Organize Event)

The screenshot shows a user interface for organizing events. On the left is a sidebar with the user's profile (Adam, ADMIN), navigation links (Homepage, Newsfeed, Information Dashboard, Research, Journal Database, Events & Conference, Settings, Help, Logout Account), and a dropdown for Manage Event (with Organize Event selected). The main area displays a grid of event cards. Two cards are fully visible: "DEFCON 2021" (Aug 10) and "Black Hat USA" (Aug 20). Both cards show a preview image, the event name, date, and a brief description. Below these are three partially visible cards, each with the message "No event proposal". A modal window is open over the grid, centered on the DEFCON 2021 card. The modal header says "DEFCON 2021". Inside, there is a large image of a person working at a desk in a futuristic, neon-lit room, with the word "DEFCON" prominently displayed in the foreground. Below the image is a section titled "About this event" containing placeholder text about Lorem Ipsum. A "More →" button is at the bottom right of the modal.

This screenshot shows the same interface as above, but the modal window is now fully visible, displaying the detailed information for the DEFCON 2021 event. The modal header "DEFCON 2021" is at the top. The central image is a vibrant, stylized illustration of a person working at a desk in a futuristic, neon-lit environment, with the word "DEFCON" in large letters. To the right of the image, the text "About this event" is followed by a block of placeholder text about the history of Lorem Ipsum. At the bottom right of the modal is a "More →" button. The rest of the interface remains the same, with the sidebar and other event cards visible in the background.

## Event Details

### Organizer Details

Organizer Name Adam	Last Name Corona
Phone No. 011 334 2890	ID COGH980313XXX
Email Adam@gmail.com	

---

### Payment

Payment ID PYII13	Bank Details M2U Wallet	Merchant ID MCII13	Merchant Link talkted_merch.com
----------------------	----------------------------	-----------------------	------------------------------------

---

### Event Details

Event Name DEFCON 2021	Event ID EVII13
Location Dewan Kejora UTM	Capacity 40
Event Type Event Type	Person In Charge Person In Charge

[Register](#) [Decline](#)

### Organizer Details

Organizer Name Adam	Last Name Corona
Phone No. 011 334 2890	ID

### Payment

Payment ID PYII13	Bank Details M2U Wallet	Merchant ID MCII13	Merchant Link talkted_merch.com
----------------------	----------------------------	-----------------------	------------------------------------

### Event Detail

Event Name DEFCON 2021	Event ID EVII13
Location Dewan Kejora UTM	Capacity 40
Event Type Event Type	Person In Charge Person In Charge

[Register](#) [Decline](#)

Success !

## Process 3: (Transaction Money)

Vikashini  
UI / UX ENGINEER

Upcoming Events

Weekdays Event Type Any Category

HOME PAGE

Newsfeed

Information Dashboard

Journal Database

Events & Conference

Event Calendar

Event List

Bookings

Settings

Help

Logout Account

DEFCON 10

DEFCON 14

Black Hat USA

About this event

Lorem ipsum is simply dummy text of the printing and typesetting industry. Lorem ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem ipsum.

RM 15

Buy Ticket

Vikashini  
UI / UX ENGINEER

Upcoming Events

Weekdays Event Type Any Category

HOME PAGE

Newsfeed

Information Dashboard

RESEARCH

Journal Database

Events & Conference

Event Calendar

Event List

Bookings

Settings

Help

Logout Account

Black Hat USA

About this event

Lorem ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

RM 15

Done!

Vikashini  
UI / UX ENGINEER

Upcoming Events

Weekdays Event Type Any Category

HOME PAGE

Newsfeed

Information Dashboard

RESEARCH

Journal Database

Events & Conference

Event Calendar

Event List

Bookings

Settings

Help

Logout Account

Payment Details

Card number

1234 1234 1234 1234

VISA

Expiry

MM / YY

CVC

Country

United States

Postal code

90210

RM 15

Pay

## Process 4 (Create Event)

The screenshot shows a web-based application interface for managing events. The top navigation bar includes links for Home, Newsfeed, Information, Journal, Events & Conferences, Settings, Create Event, Analytics, Help, and Logout Account. The main content area is titled "Event Details".

**Organizer Details:**

Organizer Name	Last name
Adam	Last Name
Phone no.	ID
Phone No.	ID
Email	
Adam@gmail.com	

**Payment:**

Payment ID	Bank Details
Payment ID	Bank Details

**Merchant:**

Merchant ID	Merchant Link
Merchant ID	Merchant Link

**Event Details:**

Event Name	Event ID
Event Name	Event ID
Location	Capacity
Location	Capacity
Title	Title
Event Type	Person In Charge

**Buttons:**

- Logout Account
- Register

The screenshot shows the application's homepage for an administrator named Adam. The left sidebar contains navigation links for Newsfeed, Information Dashboard, Research (Journal Database, Events & Conference, Settings), Admin (Manage Event, Organize Event, Create Event, Analysation Data, Help, Logout Account), and a user profile section. The main content area features a large blue button labeled "Add" and a message: "You don't create event yet, register a new one here". Below this are search fields for Organizer Name, Event Name, Event ID, and Status, along with another "Add" button.

## Process 5 (Join Event)

The screenshot shows the application's homepage for a student named Derf. The left sidebar includes the same navigation links as the admin version, plus a "Event List" link under the Events & Conference category. The main content area displays a list of "Upcoming Events" with cards for DEFCON 2021, DEFCON 10, and Test 3. The DEFCON 2021 card is highlighted and shows a detailed view of the event's interior, including a control room with multiple screens and people. A "Join" button is visible at the bottom right of this card.

Derf  
STUDENT

Upcoming Events

Weekdays Event Type Any Category

HOOME PAGE

Newsfeed

Information Dashboard

RESEARCH

Journal Database

Events & Conference

Event Calendar

Event List

Bookings

Settings

Help

Logout Account

DEFCON 2021

About this event

Aug 10 DEFCON 2021 We'll get you directly seated and inside for you to enjoy the show.

Aug 14 Test 3 We'll get you directly seated and inside for you to enjoy the show.

Done!

The screenshot shows a user profile for 'Derf STUDENT' on the left. The main content area is titled 'Upcoming Events' with dropdown filters for 'Weekdays', 'Event Type', and 'Any Category'. On the left sidebar, there are links for 'HOOME PAGE', 'Newsfeed', 'Information Dashboard', 'RESEARCH', 'Journal Database', and a expanded 'Events & Conference' section containing 'Event Calendar', 'Event List' (which is selected), 'Bookings', and 'Settings'. Below these are 'Help' and 'Logout Account'. In the center, a large event card for 'DEFCON 2021' is displayed, featuring a date 'Aug 10', the event name, and a placeholder text about getting seated and inside. A green button labeled 'Done!' is overlaid on the bottom right of this card. To the right, there are other event cards for 'Test 3' (Aug 14) and 'Test 5' (Aug 18), both with similar descriptions and placeholder text.

Derf  
STUDENT

Upcoming Events

Weekdays Event Type Any Category

HOOME PAGE

Newsfeed

Information Dashboard

RESEARCH

Journal Database

Events & Conference

Event Calendar

Event List

Bookings

Settings

Help

Logout Account

DEF CON 31

August 10-13, 2023  
Caesars Forum, Las Vegas NV

THEME: THE FUTURE WILL PREVAIL  
ONE BADGE FULL ACCESS  
PRICE: \$460

DEFCON DEFCON DEFCON

Aug 10 DEFCON 2021 We'll get you directly seated and inside for you to enjoy the show.

Aug 14 Test 3 We'll get you directly seated and inside for you to enjoy the show.

Aug 20 Test 5 Directly seated and inside for you to enjoy the show.

This screenshot shows the same user profile and sidebar as the first one. The main content area is titled 'Upcoming Events'. It displays several event cards. One prominent card for 'DEF CON 31' is shown with details: 'August 10-13, 2023', 'Caesars Forum, Las Vegas NV', 'THEME: THE FUTURE WILL PREVAIL', 'ONE BADGE FULL ACCESS', and 'PRICE: \$460'. Below this are three smaller event cards: 'Aug 10 DEFCON 2021' (placeholder text), 'Aug 14 Test 3' (placeholder text), and 'Aug 20 Test 5' (placeholder text). The overall layout is identical to the first screenshot, with the addition of the 'DEF CON 31' event card.

 Derf  
STUDENT

## Upcoming Events

Weekdays ▾ Event Type ▾ Any Category ▾

HOME PAGE

Newsfeed

Information Dashboard

RESEARCH

Journal Database

Events & Conference ▾

Event Calendar

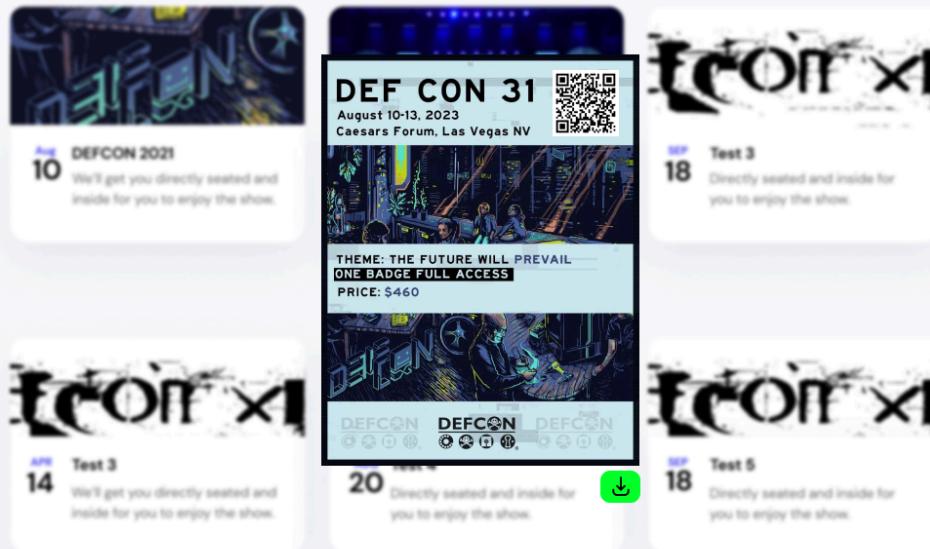
Event List

Bookings

Settings

Help

Logout Account



The page displays a list of upcoming events. The first card is for DEF CON 2021 on Aug 10, 2023, at Caesars Forum, Las Vegas NV. It features a QR code and details about the theme, badge access, and price. The second card is for DEF CON 31 on August 10-13, 2023, at Caesars Forum, Las Vegas NV. It includes a QR code and information about the theme, badge access, and price. Below these are two test events: 'Test 3' on Aug 14 and 'Test 5' on Aug 18, both described as 'Directly seated and inside for you to enjoy the show.'

 Derf  
STUDENT

## My Bookings

FACE MASK CONNECT 2.0

Categories: Health & Science

Date: 21 Jul 2020 Time: 11:00 - 12:00

Review Cancel

DEFCON 2021

Categories: Cyber Security

Date: 10 Aug 2023 Time: 11:00 - 12:00

Review Cancel

PHILOSOPHY OF MIND CONFERENCE

Categories: Physiotherapy

Date: 25 Jul 2020 Time: 11:00 - 12:00

Review Cancel

FUTURETECH HACKATHON

Categories: Physiotherapy

Date: 25 Aug 2020 Time: 11:00 - 12:00

Review Cancel

SCAMBUSTERS WORKSHOP

Categories: Technology

Date: 28 Aug 2020 Time: 11:00 - 12:00

Review Cancel

AEROFUTURES SUMMIT

Categories: Aviation

Date: 25 Sept 2020 Time: 11:00 - 12:00

Review Cancel

ROBOTICS AND AUTOMATION EXPO

Categories: Technologies

Date: 25 Oct 2020 Time: 11:00 - 12:00

Review Cancel

REVERSE ENGINEERING WORKSHOP

Categories: Technology

Date: 28 Aug 2020 Time: 11:00 - 12:00

Review Cancel

RAWSEC CAPTURE THE FLAG CHALLENGE

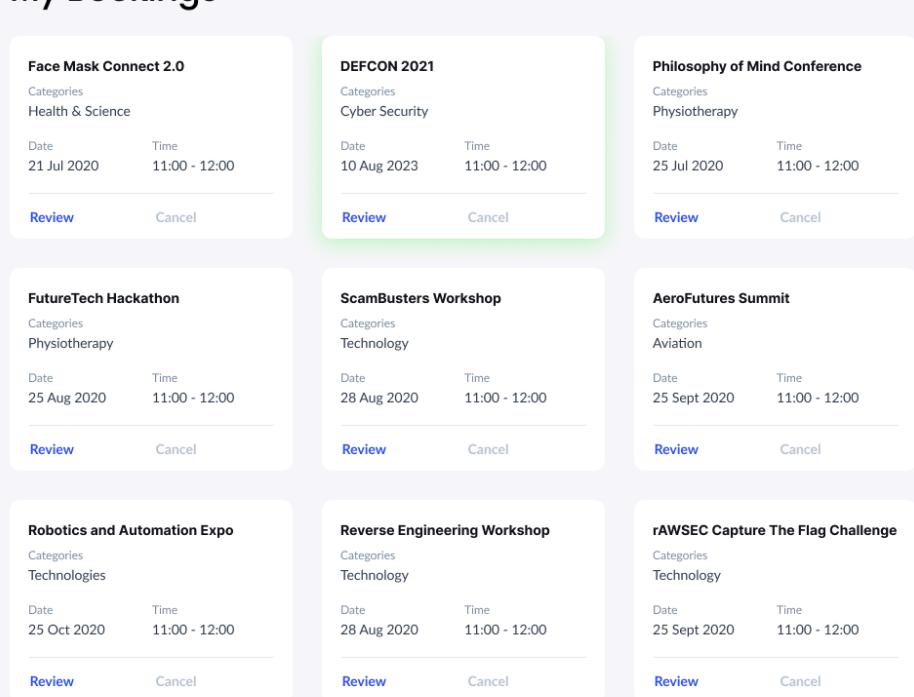
Categories: Technology

Date: 25 Sept 2020 Time: 11:00 - 12:00

Review Cancel

Help

Logout Account



The page displays a grid of event bookings. Each booking card includes the event name, category, date, time, and two buttons: 'Review' and 'Cancel'. The bookings are as follows: Face Mask Connect 2.0 (Health & Science, 21 Jul 2020), DEFCON 2021 (Cyber Security, 10 Aug 2023), Philosophy of Mind Conference (Physiotherapy, 25 Jul 2020), FutureTech Hackathon (Physiotherapy, 25 Aug 2020), ScamBusters Workshop (Technology, 28 Aug 2020), AeroFutures Summit (Aviation, 25 Sept 2020), Robotics and Automation Expo (Technologies, 25 Oct 2020), Reverse Engineering Workshop (Technology, 28 Aug 2020), and RAWSEC Capture The Flag Challenge (Technology, 25 Sept 2020).

## Process 6 (Ticket Validation Process)

My Bookings

Event Name	Date	Time	Action
Nobel Symposium on Particle Physics	21 Jul 2020	11:00 - 12:00	Review Cancel
Philosophy of Mind Conference	25 Jul 2020	11:00 - 12:00	Review Cancel
FutureTech Hackathon	25 Aug 2020	11:00 - 12:00	Review Cancel
			
X	28 Aug 2020	11:00 - 12:00	Review Cancel
Y	25 Sept 2020	11:00 - 12:00	Review Cancel
Z	25 Oct 2020	11:00 - 12:00	Review Cancel

 **Derf**  
STUDENT

[HOMEPAGE](#)

[!\[\]\(e44821c723c84aa9f7c152dcf2b08042\_img.jpg\) Newsfeed](#)

[!\[\]\(bc8ec601c21e3c4085dbc893eca68de0\_img.jpg\) Information Dashboard](#)

[RESEARCH](#)

[!\[\]\(fa6c8c2f79f9f7e83836c0128aa1310b\_img.jpg\) Journal Database](#)

[!\[\]\(6ae08e8f8087331fbca49aa60b522fb7\_img.jpg\) Events & Conference](#)

[Event Calender](#)

[Event List](#)

[Bookings](#)

[!\[\]\(acbbcba5e763d03f4535c02b600c3022\_img.jpg\) Settings](#)

[!\[\]\(0977d7c9e11779759de111da5e046030\_img.jpg\) Help](#)

[!\[\]\(29392b8fe15179cfca7b8aef2182781f\_img.jpg\) Logout Account](#)

## My Bookings

Event Name	Date	Time	Category	Action
Nobel Symposium on Particle Physics	21 Jul 2020	11:00 - 12:00	Physiotherapy	<a href="#">Review</a> <a href="#">Cancel</a>
Philosophy of Mind Conference	25 Jul 2020	11:00 - 12:00	Physiotherapy	<a href="#">Review</a> <a href="#">Cancel</a>
FutureTech Hackathon	25 Aug 2020	11:00 - 12:00	Physiotherapy	<a href="#">Review</a> <a href="#">Cancel</a>
	28 Aug 2020	11:00 - 12:00	Physiotherapy	<a href="#">Review</a> <a href="#">Cancel</a>
	25 Sept 2020	11:00 - 12:00	Physiotherapy	<a href="#">Download</a> <a href="#">Cancel</a>
X	28 Aug 2020	11:00 - 12:00	Physiotherapy	<a href="#">Review</a> <a href="#">Cancel</a>
Y	25 Sept 2020	11:00 - 12:00	Physiotherapy	<a href="#">Review</a> <a href="#">Cancel</a>
Z	25 Oct 2020	11:00 - 12:00	Physiotherapy	<a href="#">Review</a> <a href="#">Cancel</a>

The screenshot shows a user interface for event management. At the top right, there are dropdown menus for 'Weekdays', 'Event Type', and 'Any Category'. On the left, a sidebar menu includes 'HOMEPAGE', 'Newsfeed', 'Information Dashboard', 'RESEARCH', 'Journal Database', 'Events & Conference' (which is expanded to show 'Event List' and 'Bookings'), 'Settings', 'Help', and 'Logout Account'. The main content area is titled 'Upcoming Events' and features a large image of a DEFCON 2012 Los Vegas badge with a skull and crossbones. Below the badge, there are three event cards: 'DEFCON 2021' (Aug 10), 'Test 3' (Aug 14), and 'Test 5'. Each card includes a QR code and a brief description: 'We'll get you directly seated and inside for you to enjoy the show.' A download button is located at the bottom right of the main content area.

## Process 7 (Event Analyzation)

 Adam  
ADMIN

- HOME PAGE
- Newsfeed
- Information Dashboard
- RESEARCH
- Journal Database
- Events & Conference
- Settings
- ADMIN
- Manage Event
  - Organize Event
  - Create Event
  - Analysation Data
- Help
- Logout Account

## Welcome Back !

Here is the information about all your event

**10,015**
Total users

10.2 +0.01% this week

**9**
Total Event

3.1 +0.49% this week

**5,003**
Total users joined

2.56 -0.91% this week

**8**
Refunded

7.2 +1.51% this week

**Event Total Amount Collected**



DEFCON BLACK HAT USA

**Earnings**



DEFCON 2021 BLACK HAT USA TEST 3

No	Event ID	Date	Organizer Name	Location	Amount	Status
1	#EVII3	Aug 10, 2021	ADAM CORONA	Dewan Kejora	RM 59,492.10	Active
2	#EVII4	Aug 20, 2021	MEGAT ZAFF	N24, DK 7	RM 34,886.25	Active
3	#EVII7	Sep 18, 2021	PABLO CHRIS	PI9, DK 5	RM 15,679.70	Active

 Adam  
ADMIN

- HOME PAGE
- Newsfeed
- Information Dashboard
- RESEARCH
- Journal Database
- Events & Conference
- Settings
- ADMIN
- Manage Event
  - Organize Event
  - Create Event
  - Analysation Data
- Help
- Logout Account

**Active Users**

 John Doe A22EAD	...
 Jane Smith C22EAF	...
 Bob Johnson A22EA2	...
 Alice Brown A22EB0	...
 Henry Lee A22EB2	...
 Eva Davis A22EB3	...
 Frank Miller A22EB4	...
 Grace Wilson A22EB5	...
 Charlie White A22EB6	...

**Event Frequently Join**

Category	Count
Technology	9
Gaming	0
Fashion	0
Business	0
Education	0

**Event Total Amount Collected**



DEFCON 2021 BLACK HAT USA

**Common Payment Methods**



DEFCON 2021

## Event Details

**Organizer Details**

Organizer Name <input type="text" value="Adam"/>	Last Name <input type="text" value="Corona"/>
Phone No. <input type="text" value="011 334 2890"/>	ID <input type="text" value="COGH980313XXX"/>
Email <input type="text" value="Adam@gmail.com"/>	

**Payment**

Payment ID <input type="text" value="PYI13"/>	Bank Details <input type="text" value="M2U Wallet"/>
--	---

**Merchant**

Merchant ID <input type="text" value="MCII3"/>	Merchant Link <input type="text" value="talkted_merch.com"/>
---	---

**Event Details**

Event Name <input type="text" value="DEFCON 2021"/>	Event ID <input type="text" value="EVII3"/>
Location <input type="text" value="Dewan Kejora UTM"/>	Capacity <input type="text" value="40"/>
Event Type <input type="text" value="Event Type"/>	Person In Charge <input type="text" value="Person In Charge"/>

Register
Decline

## 7.0 SQL Statements (DDL & DML)

```

CREATE TABLE EVENT(
    eventID VARCHAR2(15),
    name      VARCHAR2(100) NOT NULL,
    location  VARCHAR2(100) NOT NULL,
    email     VARCHAR2(100) NOT NULL,
    category  VARCHAR2(100) NOT NULL,
    isPaid    VARCHAR2(1) NOT NULL,
    organizationID VARCHAR2(15) NOT NULL,
    personInCharge VARCHAR2(100) NOT NULL,
    CONSTRAINT eventID_pk PRIMARY KEY (eventID)
);

```

```

CREATE TABLE PAYMENT(
    paymentID VARCHAR2(15),
    payment_type VARCHAR2(15) NOT NULL,
    verificationID VARCHAR2(15) NOT NULL,
    participantID VARCHAR2(15) NOT NULL,
    eventID VARCHAR2(15) NOT NULL,
    CONSTRAINT paymentID_pk PRIMARY KEY (paymentID)
) ;

CREATE TABLE BOOKING(
    verificationID VARCHAR2(15) NOT NULL,
    bookingDate DATE NOT NULL,
    participantID VARCHAR2(15) NOT NULL,
    eventID VARCHAR2(15) NOT NULL,
    CONSTRAINT verificationID_pk PRIMARY KEY (verificationID)
) ;

CREATE TABLE ORGANIZER(
    organizerID VARCHAR2(15) NOT NULL,
    organizerName VARCHAR2(100) NOT NULL,
    organizerEmail VARCHAR2(100) NOT NULL,
    organizerTelPhone VARCHAR2(12) NOT NULL,
    CONSTRAINT organizerID_pk PRIMARY KEY (organizerID)
) ;

CREATE TABLE PARTICIPANT(
    participantID VARCHAR2(15) NOT NULL,
    participantName VARCHAR2(100) NOT NULL,
    participantEmail VARCHAR2(100) NOT NULL,
    participantTelPhone VARCHAR2(15) NOT NULL,
    CONSTRAINT participantID_pk PRIMARY KEY (participantID)
) ;

CREATE TABLE CALENDAR(
    calendarID VARCHAR2(15) NOT NULL,
    startingDate DATE NOT NULL,
    eventID VARCHAR2(15) NOT NULL,
    CONSTRAINT calendarID_pk PRIMARY KEY (calendarID)
) ;

```

```
CREATE TABLE UPCOMING_EVENT(
    calendarID VARCHAR2(15) NOT NULL,
    eventID VARCHAR2(15) NOT NULL,
    startingDate DATE NOT NULL
);
```

Table EVENT created.

Table PAYMENT created.

Table BOOKING created.

Table ORGANIZER created.

Table PARTICIPANT created.

Table CALENDAR created.

Table UPCOMING\_EVENT created.

Table PAST\_EVENT created.

```
-- Here lies constraint foreign key --  
  
-- Payment  
  
ALTER TABLE PAYMENT  
ADD CONSTRAINT verificationID_fk2 FOREIGN KEY (verificationID)  
REFERENCES BOOKING;  
  
ALTER TABLE PAYMENT  
ADD CONSTRAINT participantID_fk FOREIGN KEY (participantID)  
REFERENCES PARTICIPANT;  
  
ALTER TABLE PAYMENT  
ADD CONSTRAINT eventID_fk2 FOREIGN KEY (eventID) REFERENCES EVENT;  
  
-- Booking  
  
ALTER TABLE BOOKING  
ADD CONSTRAINT participantID_fk2 FOREIGN KEY (participantID)  
REFERENCES PARTICIPANT;  
  
ALTER TABLE BOOKING  
ADD CONSTRAINT eventID_fk FOREIGN KEY (eventID) REFERENCES EVENT;  
  
-- Event  
  
ALTER TABLE EVENT  
ADD CONSTRAINT organizationID_fk FOREIGN KEY (organizationID)  
REFERENCES ORGANIZER;  
  
-- Calendar  
  
ALTER TABLE CALENDAR  
ADD CONSTRAINT eventID_fk3 FOREIGN KEY (eventID) REFERENCES EVENT;  
  
-- Upcoming Event  
  
ALTER TABLE UPCOMING_EVENT  
ADD CONSTRAINT eventID_fk4 FOREIGN KEY (eventID) REFERENCES EVENT;
```

```
-- Past Event

ALTER TABLE PAST_EVENT
ADD CONSTRAINT eventID_fk5 FOREIGN KEY (eventID) REFERENCES EVENT;
```

Table PAYMENT altered.

Table PAYMENT altered.

Table PAYMENT altered.

Table BOOKING altered.

Script Output

Table BOOKING altered.

Table EVENT altered.

Table CALENDAR altered.

Table UPCOMING\_EVENT altered.

Table PAST\_EVENT altered.

```
-- Here lies Adding Ton of Data

INSERT INTO PARTICIPANT VALUES ('P001', 'John Doe',
'john.doe@example.com', '123-456-7890');
INSERT INTO PARTICIPANT VALUES ('P002', 'Jane Smith',
'jane.smith@example.com', '987-654-3210');
INSERT INTO PARTICIPANT VALUES ('P003', 'Bob Johnson',
'bob.johnson@example.com', '111-222-3333');
INSERT INTO PARTICIPANT VALUES ('P004', 'Alice Brown',
'alice.brown@example.com', '444-555-6666');
INSERT INTO PARTICIPANT VALUES ('P005', 'Charlie White',
'charlie.white@example.com', '777-888-9999');
INSERT INTO PARTICIPANT VALUES ('P006', 'Eva Davis',
'eva.davis@example.com', '333-444-5555');
INSERT INTO PARTICIPANT VALUES ('P007', 'Frank Miller',
'frank.miller@example.com', '666-777-8888');
INSERT INTO PARTICIPANT VALUES ('P008', 'Grace Wilson',
'grace.wilson@example.com', '222-333-4444');
INSERT INTO PARTICIPANT VALUES ('P009', 'Henry Lee',
'henry.lee@example.com', '999-000-1111');
INSERT INTO PARTICIPANT VALUES ('P010', 'Ivy Taylor',
'ivy.taylor@example.com', '555-666-7777');
INSERT INTO PARTICIPANT VALUES ('P011', 'Jack Robinson',
'jack.robinson@example.com', '888-999-0000');
INSERT INTO PARTICIPANT VALUES ('P012', 'Kelly Turner',
'kelly.turner@example.com', '444-555-6666');
INSERT INTO PARTICIPANT VALUES ('P013', 'Leo Harris',
'leo.harris@example.com', '111-222-3333');
INSERT INTO PARTICIPANT VALUES ('P014', 'Mia Garcia',
'mia.garcia@example.com', '777-888-9999');
INSERT INTO PARTICIPANT VALUES ('P015', 'Nora Evans',
'nora.evans@example.com', '123-456-7890');
INSERT INTO PARTICIPANT VALUES ('P016', 'Oscar Wright',
'oscar.wright@example.com', '987-654-3210');
INSERT INTO PARTICIPANT VALUES ('P017', 'Pamela Adams',
'pamela.adams@example.com', '111-222-3333');
INSERT INTO PARTICIPANT VALUES ('P018', 'Quincy Green',
'quincy.green@example.com', '555-666-7777');
INSERT INTO PARTICIPANT VALUES ('P019', 'Rachel Hall',
'rachel.hall@example.com', '777-888-9999');
```

```
INSERT INTO PARTICIPANT VALUES ('P020', 'Samuel Lewis',
'samuel.lewis@example.com', '222-333-4444');

INSERT INTO ORGANIZER VALUES ('ORG001', 'ABC Events',
'abc.events@example.com', '123-456-7890');
INSERT INTO ORGANIZER VALUES ('ORG002', 'XYZ Productions',
'xyz.productions@example.com', '987-654-3210');
INSERT INTO ORGANIZER VALUES ('ORG003', 'EventCo Enterprises',
'eventco@example.com', '555-123-4567');
INSERT INTO ORGANIZER VALUES ('ORG004', 'Dream Events',
'dream.events@example.com', '111-222-3333');
INSERT INTO ORGANIZER VALUES ('ORG005', 'Elite Planners',
'elite.planners@example.com', '444-555-6666');
INSERT INTO ORGANIZER VALUES ('ORG006', 'City Celebrations',
'city.celebrations@example.com', '777-888-9999');
INSERT INTO ORGANIZER VALUES ('ORG007', 'Gala Creations',
'gala.creations@example.com', '999-888-7777');
INSERT INTO ORGANIZER VALUES ('ORG008', 'Star Productions',
'star.productions@example.com', '333-222-1111');
INSERT INTO ORGANIZER VALUES ('ORG009', 'Epic Events',
'epic.events@example.com', '666-555-4444');
INSERT INTO ORGANIZER VALUES ('ORG010', 'Global Celebrations',
'global.celebrations@example.com', '000-999-8888');
INSERT INTO ORGANIZER VALUES ('ORG011', 'Royal Gatherings',
'royal.gatherings@example.com', '222-333-4444');
INSERT INTO ORGANIZER VALUES ('ORG012', 'Creative Minds Events',
'creative.minds@example.com', '777-666-5555');
INSERT INTO ORGANIZER VALUES ('ORG013', 'Grand Affairs',
'grand.affairs@example.com', '444-333-2222');
INSERT INTO ORGANIZER VALUES ('ORG014', 'Majestic Events',
'majestic.events@example.com', '111-000-9999');
INSERT INTO ORGANIZER VALUES ('ORG015', 'Elegance Productions',
'elegance.productions@example.com', '888-777-6666');
INSERT INTO ORGANIZER VALUES ('ORG016', 'Premier Planners',
'premier.planners@example.com', '555-444-3333');
INSERT INTO ORGANIZER VALUES ('ORG017', 'Harmony Events',
'harmony.events@example.com', '222-111-0000');
INSERT INTO ORGANIZER VALUES ('ORG018', 'Prestige Productions',
'prestige.productions@example.com', '999-888-7777');
```

```
INSERT INTO ORGANIZER VALUES ('ORG019', 'Chic Celebrations',
'chic.celebrations@example.com', '666-555-4444');
INSERT INTO ORGANIZER VALUES ('ORG020', 'Signature Events',
'signature.events@example.com', '333-222-1111');

INSERT INTO CALENDAR VALUES ('CAL001', TO_DATE('2024-01-15',
'YYYY-MM-DD'), 'EVT001');
INSERT INTO CALENDAR VALUES ('CAL002', TO_DATE('2024-02-20',
'YYYY-MM-DD'), 'EVT002');
INSERT INTO CALENDAR VALUES ('CAL003', TO_DATE('2024-03-10',
'YYYY-MM-DD'), 'EVT003');
INSERT INTO CALENDAR VALUES ('CAL004', TO_DATE('2024-04-05',
'YYYY-MM-DD'), 'EVT004');
INSERT INTO CALENDAR VALUES ('CAL005', TO_DATE('2024-05-15',
'YYYY-MM-DD'), 'EVT005');
INSERT INTO CALENDAR VALUES ('CAL006', TO_DATE('2024-06-08',
'YYYY-MM-DD'), 'EVT006');
INSERT INTO CALENDAR VALUES ('CAL007', TO_DATE('2024-07-20',
'YYYY-MM-DD'), 'EVT007');
INSERT INTO CALENDAR VALUES ('CAL008', TO_DATE('2024-08-12',
'YYYY-MM-DD'), 'EVT008');
INSERT INTO CALENDAR VALUES ('CAL009', TO_DATE('2024-09-25',
'YYYY-MM-DD'), 'EVT009');
INSERT INTO CALENDAR VALUES ('CAL010', TO_DATE('2024-10-18',
'YYYY-MM-DD'), 'EVT010');
INSERT INTO CALENDAR VALUES ('CAL011', TO_DATE('2024-11-08',
'YYYY-MM-DD'), 'EVT011');
INSERT INTO CALENDAR VALUES ('CAL012', TO_DATE('2024-12-01',
'YYYY-MM-DD'), 'EVT012');
INSERT INTO CALENDAR VALUES ('CAL013', TO_DATE('2024-12-20',
'YYYY-MM-DD'), 'EVT013');
INSERT INTO CALENDAR VALUES ('CAL014', TO_DATE('2025-01-15',
'YYYY-MM-DD'), 'EVT014');
INSERT INTO CALENDAR VALUES ('CAL015', TO_DATE('2025-02-10',
'YYYY-MM-DD'), 'EVT015');
INSERT INTO CALENDAR VALUES ('CAL016', TO_DATE('2025-03-05',
'YYYY-MM-DD'), 'EVT016');
INSERT INTO CALENDAR VALUES ('CAL017', TO_DATE('2025-04-18',
'YYYY-MM-DD'), 'EVT017');
```

```
INSERT INTO CALENDAR VALUES ('CAL018', TO_DATE('2025-05-20',
'YYYY-MM-DD'), 'EVT018');
INSERT INTO CALENDAR VALUES ('CAL019', TO_DATE('2025-06-08',
'YYYY-MM-DD'), 'EVT019');
INSERT INTO CALENDAR VALUES ('CAL020', TO_DATE('2025-07-15',
'YYYY-MM-DD'), 'EVT020');

INSERT INTO EVENT VALUES ('EVT001', 'Summer Gala', 'Grand Ballroom',
'summer.gala@example.com', 'Social', 'Y', 'ORG001', 'Alex
Anderson');
INSERT INTO EVENT VALUES ('EVT002', 'Tech Conference 2024',
'Convention Center', 'tech.conference@example.com', 'Technology',
'N', 'ORG002', 'Bella Clark');
INSERT INTO EVENT VALUES ('EVT003', 'Art Exhibition', 'City Art
Gallery', 'art.exhibition@example.com', 'Arts', 'Y', 'ORG003',
'Carter Davis');
INSERT INTO EVENT VALUES ('EVT004', 'Corporate Retreat', 'Luxury
Resort', 'corporate.retreat@example.com', 'Business', 'N', 'ORG004',
'Diana Edwards');
INSERT INTO EVENT VALUES ('EVT005', 'Music Festival', 'Outdoor
Stadium', 'music.festival@example.com', 'Entertainment', 'Y',
'ORG005', 'Ethan Foster');
INSERT INTO EVENT VALUES ('EVT006', 'Health and Wellness Expo',
'Exhibition Hall', 'wellness.expo@example.com', 'Health', 'N',
'ORG006', 'Fiona Garcia');
INSERT INTO EVENT VALUES ('EVT007', 'Fashion Show', 'Fashion
Center', 'fashion.show@example.com', 'Fashion', 'Y', 'ORG007',
'George Harris');
INSERT INTO EVENT VALUES ('EVT008', 'Community Fair', 'Local Park',
'community.fair@example.com', 'Community', 'N', 'ORG008', 'Hannah
Ingram');
INSERT INTO EVENT VALUES ('EVT009', 'Sports Championship', 'Sports
Arena', 'sports.championship@example.com', 'Sports', 'Y', 'ORG009',
'Isaac Johnson');
INSERT INTO EVENT VALUES ('EVT010', 'Wedding Celebration', 'Luxury
Hotel', 'wedding.celebration@example.com', 'Wedding', 'N', 'ORG010',
'Jasmine Kim');
INSERT INTO EVENT VALUES ('EVT011', 'Food and Wine Tasting',
'Vineyard', 'food.wine@example.com', 'Culinary', 'Y', 'ORG011',
'Kevin Lopez');
```

```
INSERT INTO EVENT VALUES ('EVT012', 'Technology Expo', 'Exhibition Center', 'tech.expo@example.com', 'Technology', 'N', 'ORG012', 'Lily Morgan');
INSERT INTO EVENT VALUES ('EVT013', 'Film Festival', 'Movie Theater', 'film.festival@example.com', 'Entertainment', 'Y', 'ORG013', 'Max Nelson');
INSERT INTO EVENT VALUES ('EVT014', 'Educational Summit', 'University Auditorium', 'education.summit@example.com', 'Education', 'N', 'ORG014', 'Nina Oliver');
INSERT INTO EVENT VALUES ('EVT015', 'Charity Auction', 'Event Hall', 'charity.auction@example.com', 'Charity', 'Y', 'ORG015', 'Owen Parker');
INSERT INTO EVENT VALUES ('EVT016', 'Holiday Celebration', 'Community Center', 'holiday.celebration@example.com', 'Holiday', 'N', 'ORG016', 'Penny Quinn');
INSERT INTO EVENT VALUES ('EVT017', 'Science Fair', 'Science Museum', 'science.fair@example.com', 'Science', 'Y', 'ORG017', 'Quinn Rivera');
INSERT INTO EVENT VALUES ('EVT018', 'Gaming Convention', 'Convention Center', 'gaming.convention@example.com', 'Gaming', 'N', 'ORG018', 'Ryan Silva');
INSERT INTO EVENT VALUES ('EVT019', 'Auto Show', 'Convention Center', 'auto.show@example.com', 'Automotive', 'Y', 'ORG019', 'Samantha Turner');
INSERT INTO EVENT VALUES ('EVT020', 'Dance Performance', 'Dance Theater', 'dance.performance@example.com', 'Arts', 'N', 'ORG020', 'Tyler Walker');
```

```
-- Free Event
-- Lets say user with the id 'P001' until 'P009' registered for
event with id 'EVT002'
-- Their verification id will be automatically generated
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P001', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P002', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P003', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P004', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P005', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P006', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P007', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P008', 'EVT002');
INSERT INTO BOOKING VALUES (DBMS_RANDOM.STRING('L', 15),
SYSDATE, 'P009', 'EVT002');
```

	VERIFICATIONID	BOOKINGDATE	PARTICIPANTID	EVENTID	
1	mfuqurchwmjomtl	15/01/2024	P001	EVT002	
2	mzxbqqdvpviznu	15/01/2024	P002	EVT002	
3	dojfmrdkersbhox	15/01/2024	P003	EVT002	
4	kohbiodynrgpacqi	15/01/2024	P004	EVT002	
5	mgvgsvgpeqesyjf	15/01/2024	P005	EVT002	
6	nnkxddxdbmkdkid	15/01/2024	P006	EVT002	
7	apqaxlxoebbszar	15/01/2024	P007	EVT002	
8	urbcdsezujzqzqa	15/01/2024	P008	EVT002	
9	ygfvgbdwxjppdxd	15/01/2024	P009	EVT002	

```
-- Paid Event
-- Lets say user with the id 'P001' registered for event with id 'EVT001'
-- Their verification id will be automatically generated
INSERT INTO BOOKING VALUES ('abecipqggkutwtu', SYSDATE, 'P001', 'EVT001'); --
generated verification id abecipqggkutwtu

-- Pay Using Online Banking
INSERT INTO PAYMENT VALUES ('PYT001', 'Online Banking', 'abecipqggkutwtu',
'P001', 'EVT001');
```

10	ygfqvqbdwxjppdxd	15/01/2024	P009	EVT002	
<b>◆ PAYMENTID ◆ PAYMENT_TYPE ◆ VERIFICATIONID ◆ PARTICIPANTID ◆ EVENTID</b>					
1	PYT001	Online Banking	abecipqggkutwtu	P001	EVT001

```
-- Here lies user P001 refund money for event EVT001
DELETE FROM PAYMENT WHERE participantID='P001' AND eventID='EVT001' AND
verificationID='abecipqggkutwtu';
DELETE FROM BOOKING WHERE participantID='P001' AND
verificationID='abecipqggkutwtu';
```

1 row deleted.

1 row deleted.

```
-- Here lies organizer create a new event
-- Add one more calendarID
INSERT INTO EVENT VALUES ('EVT021', 'Defcon', 'Computer Science Lab',
'deflcon.performance@example.com', 'Cyber Security', 'N', 'ORG020',
'Megat');
INSERT INTO CALENDAR VALUES ('CAL021', TO_DATE('2025-07-18',
'YYYY-MM-DD'), 'EVT021');
```

19	EVT019	Auto Show	Convention Center	auto.show@example.com	Automotive	Y	ORG019	Samantha Turn
20	EVT020	Dance Performance	Dance Theater	dance.performance@example.com	Arts	N	ORG020	Tyler Walker
21	EVT021	Defcon	Computer Science Lab	deflcon.performance@example.com	Cyber Security	N	ORG020	Megat

20	CAL020	15/07/2025	EVT020
21	CAL021	18/07/2025	EVT021

```
-- Here lies finding out the trending event analyzation
SELECT
    E.category,
    COUNT(B.eventID) AS booking_count
FROM
    EVENT E
LEFT JOIN
    BOOKING B ON E.eventID = B.eventID
GROUP BY
    E.category;
```

CATEGORY	BOOKING_COUNT
Technology	9
Gaming	0
Fashion	0
Business	0
Education	0

```
-- Here lies finding out the top 10 active students
SELECT
    P.participantName,
    COUNT(B.participantID) AS booking_count
FROM
    PARTICIPANT P
JOIN
    BOOKING B ON P.participantID = B.participantID
GROUP BY
    P.participantName
ORDER BY
    booking_count DESC
FETCH FIRST 10 ROWS ONLY;
```

PARTICIPANTNAME	BOOKING_COUNT
John Doe	1
Jane Smith	1
Bob Johnson	1
Alice Brown	1
Henry Lee	1
Eva Davis	1
Frank Miller	1
Grace Wilson	1
Charlie White	1

```
-- Here lies finding out the organizer of event
SELECT
    O.organizerName,
    E.eventID,
    E.name AS eventName,
    E.location,
    E.category,
    E.isPaid
FROM
    ORGANIZER O
JOIN
    EVENT E ON O.organizerID = E.organizationID
ORDER BY
    O.organizerName, E.eventID;
```

ORGANIZERNAME	EVENTID	EVENTNAME
ABC Events	EVT001	Summer Gala
Chic Celebrations	EVT019	Auto Show
City Celebrations	EVT006	Health and Wellness Expo
Creative Minds Events	EVT012	Technology Expo
Dream Events	EVT004	Corporate Retreat
Elegance Productions	EVT015	Charity Auction
Elite Planners	EVT005	Music Festival
Epic Events	EVT009	Sports Championship
EventCo Enterprises	EVT003	Art Exhibition
Gala Creations	EVT007	Fashion Show
Global Celebrations	EVT010	Wedding Celebration
ORGANIZERNAME	EVENTID	EVENTNAME
Grand Affairs	EVT013	Film Festival
Harmony Events	EVT017	Science Fair
Majestic Events	EVT014	Educational Summit
Premier Planners	EVT016	Holiday Celebration
Prestige Productions	EVT018	Gaming Convention
Royal Gatherings	EVT011	Food and Wine Tasting
Signature Events	EVT020	Dance Performance
Signature Events	EVT021	Defcon
Star Productions	EVT008	Community Fair
XYZ Productions	EVT002	Tech Conference 2024

```

INSERT INTO BOOKING VALUES ('abecipqggkutwtz', SYSDATE, 'P002', 'EVT001');
-- generated verification id abecipqggkutwtz
INSERT INTO PAYMENT VALUES ('PYT002', 'Online Banking', 'abecipqggkutwtz',
'P002', 'EVT001');

INSERT INTO BOOKING VALUES ('abecipqggkutwtp', SYSDATE, 'P003', 'EVT001');
-- generated verification id abecipqggkutwtp
INSERT INTO PAYMENT VALUES ('PYT003', 'Online Banking', 'abecipqggkutwtp',
'P003', 'EVT001');

INSERT INTO BOOKING VALUES ('abecipqggkutwto', SYSDATE, 'P004', 'EVT001');
-- generated verification id abecipqggkutwto
INSERT INTO PAYMENT VALUES ('PYT004', 'Online Banking', 'abecipqggkutwto',
'P004', 'EVT001');

SELECT
    E.eventID,
    E.name AS eventName,
    E.category,
    COUNT(B.participantID) AS participantsCount
FROM
    EVENT E
JOIN
    BOOKING B ON E.eventID = B.eventID
WHERE
    E.isPaid = 'Y'
GROUP BY
    E.eventID, E.name, E.category
ORDER BY
    participantsCount DESC
FETCH FIRST 1 ROWS ONLY;

```

	EV...	EVENTNAME	CATEGORY	PARTICIPANTSCOUNT	
1	EVT001	Summer Gala	Social	3	

```
-- Populate UPCOMING_EVENT and PAST_EVENT tables based on the startingDate

INSERT INTO UPCOMING_EVENT (calendarID, eventID, startingDate)
SELECT c.calendarID, e.eventID, c.startingDate
FROM CALENDAR c
JOIN EVENT e ON c.eventID = e.eventID
WHERE c.startingDate > TO_DATE('2024-01-15', 'YYYY-MM-DD');

INSERT INTO PAST_EVENT (calendarID, eventID, startingDate)
SELECT c.calendarID, e.eventID, c.startingDate
FROM CALENDAR c
JOIN EVENT e ON c.eventID = e.eventID
WHERE c.startingDate <= TO_DATE('2024-01-15', 'YYYY-MM-DD');
```

### Upcoming Event

CALENDARID	EVENTID	STARTINGDATE
1 CAL002	EVT002	20/02/2024
2 CAL003	EVT003	10/03/2024
3 CAL004	EVT004	05/04/2024
4 CAL005	EVT005	15/05/2024
5 CAL006	EVT006	08/06/2024
6 CAL007	EVT007	20/07/2024
7 CAL008	EVT008	12/08/2024
8 CAL009	EVT009	25/09/2024
9 CAL010	EVT010	18/10/2024
10 CAL011	EVT011	08/11/2024
11 CAL012	EVT012	01/12/2024
12 CAL013	EVT013	20/12/2024
13 CAL014	EVT014	15/01/2025
14 CAL015	EVT015	10/02/2025
15 CAL016	EVT016	05/03/2025
16 CAL017	EVT017	18/04/2025
17 CAL018	EVT018	20/05/2025
18 CAL019	EVT019	08/06/2025
19 CAL020	EVT020	15/07/2025

Past Event

	CALENDARID	EVENTID	STARTINGDATE
1	CAL001	EVT001	15/01/2024

## Conclusion

To put everything to bed, what we have been doing throughout this whole project is upgrading the basic functions in Nexscholar. We recognise a few flaws and lack of features that already exist within the system and come up with a couple of brilliant ideas to enhance and better enable the system to wider user

Such improvements to the system are not easy to bring about as there are often many parties that are involved in the system process such as administrator, participant, and event manager. Henceforth, the new or upgraded functionalities that were added to the system have to take into account all of the parties involved and how they interconnected with each other to provide a seamless user experience.

As a whole, we learn a lot about what it takes to develop a fully functional system and make it good enough to be accepted and used by the public. We learned about focusing on the details and how they matter in creating a system of this scale. That is why, our system presses on a lot of additional functionalities from the previous system, as we think a lot about the ‘what-if’, not only from the user perspective, but also from other entities as well.

The SQL implementation we did was mostly done based on the syllabus in the class, as it mostly required basic syntax to apply to our system. This syntax includes adding, joining applying constraints, etc. Hence, we find the cohesive similarity between what we learn and the application of that knowledge in real-life scenarios.

Overall, this project was a success from our team's point of view, as the coordination from each team member was above and beyond the call of duty, and we believe that working on such a project further enhanced our understanding of the application and the use of database in our day to day life.