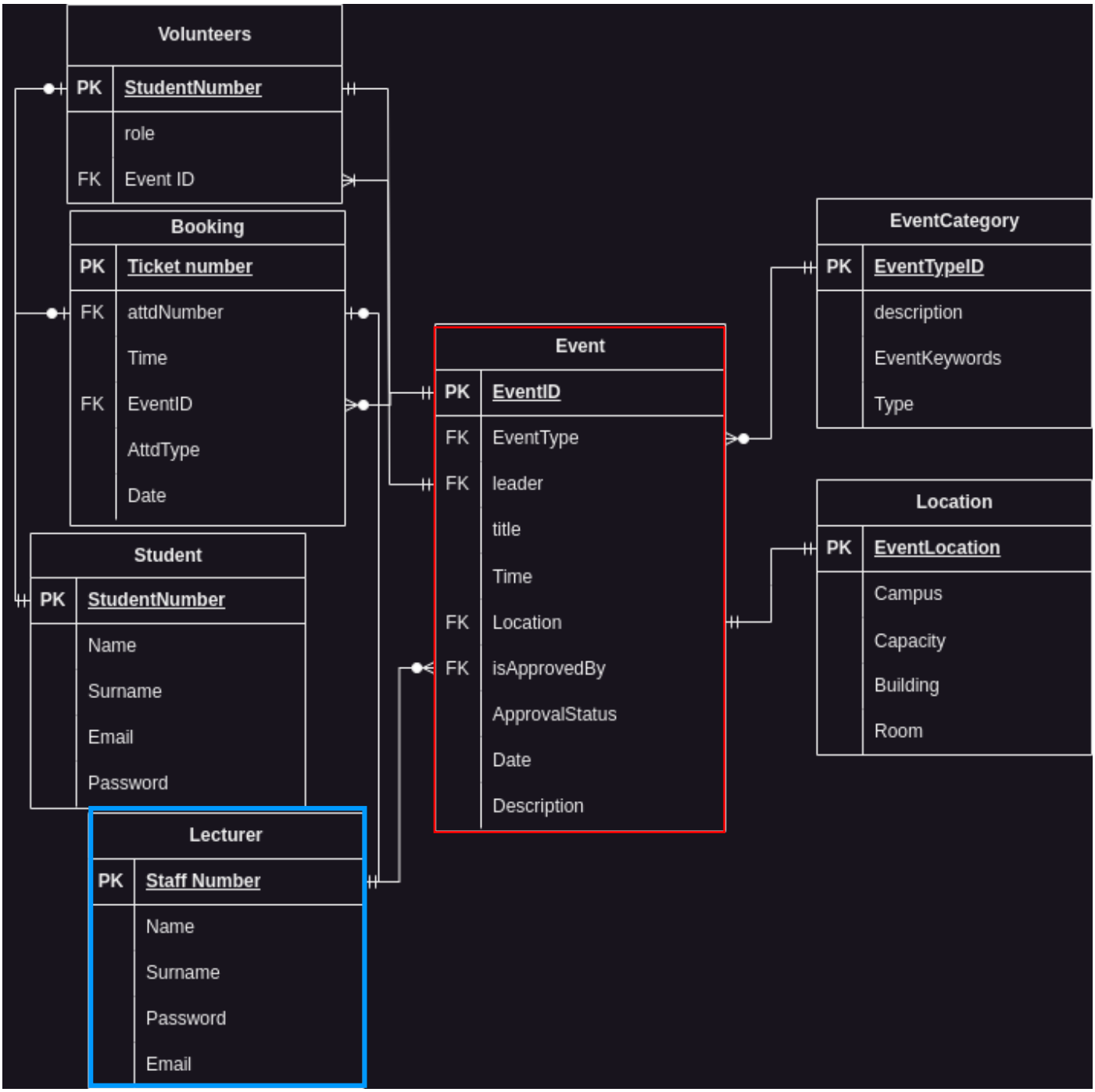
AAISHAH VAN WITT

221539395

GROUP 10

INDIVIDUAL ASSIGNMENT

ERD DIAGRAM – EVENTUALITY PROJECT



Our Team has the responsibility of ensuring accurate relationships between their tables and how the information is processed via our system. All members have the responsibility of working on the "Event" Table highlighted in RED along with their individual tables and how they relate. I am responsible for the "Lecturer" table as seen highlighted in BLUE.

EVENT TABLE

The Events table is responsible for storing all necessary information of an event created such as the type of event, the host, the name of the event, its description, time, date, location, its status of approval etc.
It is the only table connected to all other tables and contains all related information via its relationships. The event table is where the majority of the projects functionality takes place as the input, processing, and output of the information in the table would consist of various database queries, complex coding techniques and validation.

EVENT				
KEY	ATTRIBUTES	DATA TYPE	SIZE	DESCRIPTION
PK	EventID	String	8	Code to uniquely identify an event.
FK	EventType	String	40	Category type of an event such as Agriculture, Art etc.
FK	Leader	Integer		Student number of host
	Title	String	40	The name of the event.
	Time	Time		The time the event takes place.
	Date	Date		The day the event takes place
FK	Location	String	40	Where (area) event is being held.
FK	isApprovedBy	Long	8	The lecturer who approves or denies the event. Staff number
	ApprovalStatus	Boolean		Status of event (Approved/Denied)
	Description	String	40	A portrayal of the activities and purpose of the event.

SAMPLE DATA

EventID	EventType	Leader	Title	Time	Date	Location	isApprovedBy	Approval Status	Description
ED36C56C	Art & Culture	13569469	Picasso's CopyCats	13:00	14/07/2023	CPTHAL	31335989	TRUE	Students can showcase their artwork and do self-auctions.
JK69EE46	Sport	63984136	Five A Side	14:00	19/07/2023	BSPSOA	31337789	TRUE	Soccer game amongst students with five players a side. Winner gets prize
ZA46L6DE	Education	65977856	Procrastination Rules	11:30	22/07/2023	BELLIB	48767509	TRUE	Public speaking event about how to avoid procrastinating when studying.
SA996S56	Agriculture	33487636	Down To Earth	10:00	22/07/2023	AMPCPT	17268208	TRUE	Dive into your earthy self and grow some plants.
BD6597SC	Social	13678869	Student Rally	18:00	29/07/2023	BSPRUB	35981226	FALSE	Huge social event to gather students and bond, braai and bowl
DW679S1	Art & Culture	44663399	Musically	17:30	30/07/2023	LEC119	68346340	TRUE	Student music talent show to showcase vocal talent on campus
23LKEF65	Sport	85698569	Student WipeOut	09:00	01/08/2023	BSPSOB	21806580	FALSE	Obstacle course for students
BN362RTR	Education	15446398	Literature Talk	11:00	03/08/2023	BELHAL	31664469	FALSE	Poetry slam for the brave
ML6395FV	Agriculture	22153963	Weirdly Healthy	13:00	04/08/2023	CAFCPT	43375781	TRUE	Try indigenous fruits from africa
EF659FEV	Social	80966397	Rainbow Picnic	13:00	13/08/2023	AMPCPT	18936456	TRUE	Student can hold a color themed picnic and share snacks across campus

LECTURER TABLE

The function of the "Lecturer" table is to hold and store lecturer credentials to gain access to the system. Once access is granted the lecturer can view, approve, disapprove, and attend events. The "Lecturer" table has a One-to-Many relationship with the "Event" table as one lecturer can approve or deny many events and an event needs only one lecturer for it to be approved. Once an event is approved it is now available for users to attend be it lecturer or student.

The lecturer table also has a One-to-Many relationship with the "Booking table" as lecturers can book attendance to an event and the bookings can receive multiple lecturers attending.

LECTURER				
KEY	ATTRIBUTES	DATA TYPE	SIZE	DESCRIPTION
PK	Staff Number	Long	8	Code to uniquely identify lecturers.
	Name	String	40	The first name of the lecturer.
	Surname	String	40	The last name of the lecturer.
	Password	String	40	The string of characters used to gain access.
	Email	String	40	The lecturers email used to gain access

SAMPLE DATA

Staff Number	Name	Surname	Email	Password
31335989	Daniel	Kennedy	kennd@cput.ac.za	kennd@989
31337789	Zack	Leonard	leonz@cput.ac.za	leonz@789
48767509	Luna	Potter	pottl@cput.ac.za	pottl@509
17268208	Amaya	Leonard	leona@cput.ac.za	leona@208
35981226	Jasmine	Monk	monkj@cput.ac.za	monkj@226
68346340	Luke	Tyre	tyrel@cput.ac.za	tyrel@340
21806580	Zina	Maze	mazez@cput.ac.za	mazez@580
31664469	Joshua	Raphael	raphj@cput.ac.za	raphj@469
43375781	Amelia	Stiles	stila@cput.ac.za	stila@781
18936456	Brandon	Jackson	jackb@cput.ac.za	jackb@456

See Figure 2, 3, 4 and 5 for the UI designs relating to the Lecturer table. Please zoom in if contents if the designs are unclear as images were reduced in size for space.

UI DESIGN

All members participated in the selection of colors, fonts, components, and layout.

HOME PAGE

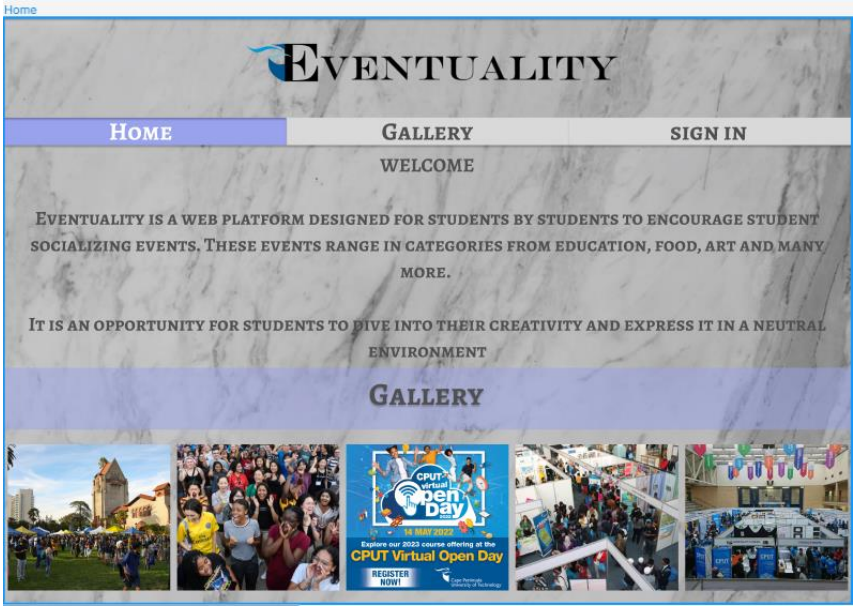


FIGURE 1: HOME PAGE

The HOME page has a simple navigation bar along with a simple welcome text to give users an idea as to what the platform allows users to do, the sign in tab navigates the user to the LOGIN page.

LOGIN PAGE

FIGURE 2: LOGIN PAGE

Depending on the user's role (Student/Lecturer) the appropriate tabs should be selected. As the LECTURER table starts to come into effect, the lecturer's email and password used to sign in must correspond to the attributes and records contained in the database when signing in as it is stored in an internal system. This is also used as verification and validation of the user gaining access to the system by matching the entered text to the stored attributes. Once the system verifies the credentials the user gains access. The "Forgot Password" link allows us to edit or update records in the database. Users without any credentials can register an account.

SIGN UP PAGE

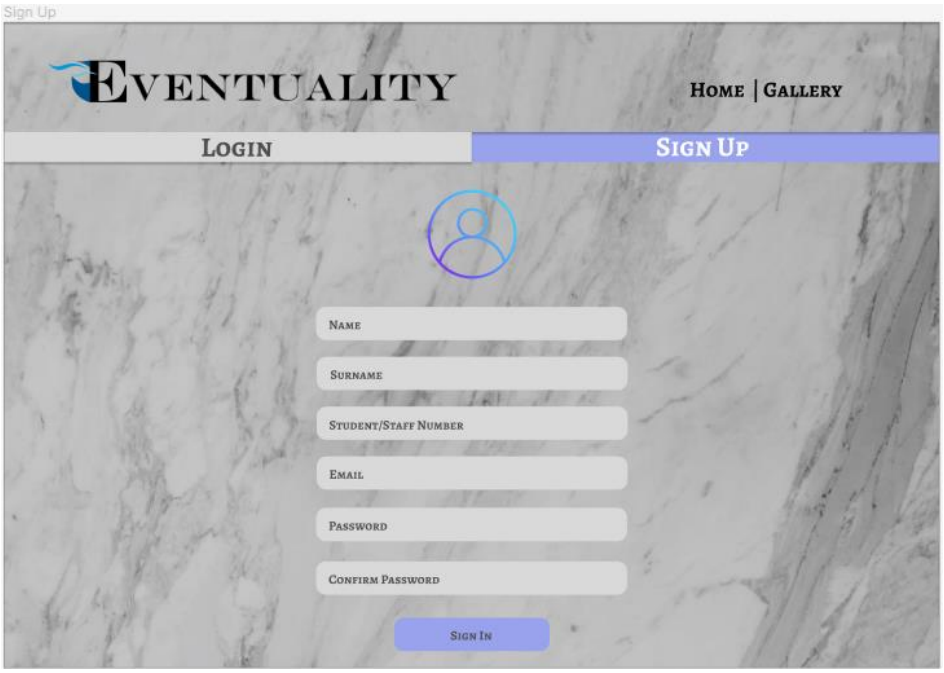


FIGURE 3: SIGN UP PAGE

The sign-up page can be used by users to register an account on the application. The user would be required to fill in the required credentials which would then be added to the application database. Based on a number sequence filter our team has invented the system would also be able to differentiate student from lecturer by their unique student or staff number and the records will be added to the correct table respectively. This page captures details of the lecturer signing up and stores them in the appropriate attributes such as Name, Surname, Email, Password and staff number.

LECTURER EVENTS PAGE

FIGURE 4: LECTURER EVENTS PAGE – PENDING EVENTS TAB

This is the page accessible by Lecturers after a successful login. This is where lecturers can view pending events awaiting approval. A lecturer can approve or deny events based on the details of the event and if they meet the appropriate standards for events held on campus. Once a choice is made the database records the response and the system will change the status of the event and update the "isApproved by" and "ApprovalStatus" attributes in the Events table.

FIGURE 5: LECTURERS EVENT PAGE – LIVE EVENTS TAB

Here the Lecturer is allowed to view active events approved by themselves or other lecturers and reserve their attendance at the events. Once an event spot is reserved the system will generate a confirmation message along with a ticket number which is then stored.
All pages allow the user to sign out of their accounts or navigate back to the home page which automatically signs the user out of their accounts.

STUDENT EVENTS PAGE

FIGURE 6: STUDENT EVENTS PAGE – MY EVENTS TAB

This is the page accessible by students after login. Students are allowed to create only one event that is then to be sent for approval before it can be listed as an active or live event. As all members are responsible for the EVENTS table, we all have the responsibility of making sure the information entered by students in the creation of the event is valid and correct before storing the details in the database.

When details are entered and validated, it should then be sent for approval. Students can also check the status of their current event which will display as a pop-up text or re-create a new event in which the system will update accordingly when the lecturer has approved or denied the request. They are also able to view events they have reserved to attend. This is where students can view all events that are live or active (approved by lecturer) and book their attendance to an event.

BUSINESS RULES

1. New users must register.
2. They can only register if they have a student/staff number.
3. A student can become a volunteer.
4. An event can have multiple volunteers.
5. A Student can be a volunteer for multiple events.
6. A student can be the leader to one active event at a time.
7. A Student/Lecturer can book attendance to an live/approved event.
8. An event can have multiple bookings.
9. A Student/Lecture can only book one ticket to an event.
10. They can book to multiple events.
11. A lecturer can approve or deny multiple events.
12. If event is denied student can create a new event.
13. A student can edit the event if its pending.
14. They cannot edit if its approved.
15. An event can only be one type, many events can be the same type.
16. An event must be held at a location.
17. Only one location can have an event at a time.
18. Students/lecturer can request password change if forgotten.
19. Students are not charged for booking.
20. Booking must be made 7 days before event occurs.

REFLECTION

Our project has progressed excellently since the initiation phase of the project. We are now entering the final planning phase as we have faced a few challenges since and improved them to ensure the efficiency of our system. Our team also has a full implementation strategy to execute the project.

We have a complete design for our project along with a basic database setup for the storing of input and output data. We had discussed color pallets, fonts, and font sizes as well as components and layout of the design to ensure the users ability to navigate easily and correctly. With the application of the UI/UX design laws the users will have a user-friendly experience using the system along with helpful prompts and validation techniques. With the meetings held we ensured to cover all basic needs a user might require.

We have ensured all relationships will accommodate the information needed for processing and the producing of output data. Our ERD diagram underwent a lot of changes such as creating the needed relationships between the lecturer and bookings tables as well as adding the necessary attributes to the Events and Booking tables. From this we learnt to be more efficient in our planning of projects

Our team is well on its way to beginning the execution phases of the project as the database design has already been set up and is only in need of functionality coding and linking to the UI. The team is currently working on the back-end functionality of the system to ensure we adhere to the time constraints given.
We are confident that our system would be most efficient in carrying out the task it was designed to perform and cannot wait to see the result. I am well please with my team and our progress thus far.