2023

PRT262S - PROJECT 2

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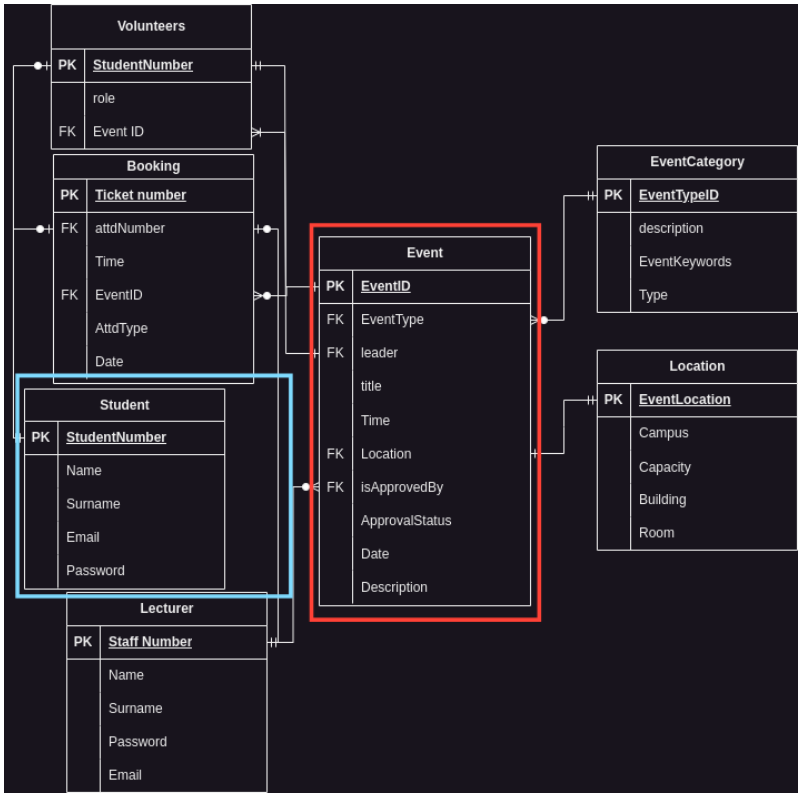
Group 10

All members have the responsibility of working on the “Event” Table **(highlighted in RED)** along with their individual tables and how they relate.

I was responsible for the “Student” table **(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, and its price.

We have decided that the responsibilities of this table will be shared with all team members.

The types of the attributes are as follows (Table on the next page contains more information and sample data):

- EventID: String (8)
- EventType: String (40)
- EventLeader: integer
- Title: String (40)
- Description: String (40)
- Time: Time
- Location: String (6)
- ApprovedBy: integer
- ApprovalStatus: boolean
- Date: date

Event_ ID	EventType	EventLeader	Title	Description	Time	Location	Approved_ by	Approval _Status	Date
LL70B T30	Sports	55173620	Tennis	Tennis friendly matches	09:00	BSPSOA	46126895	TRUE	05/10/23
AB8W 449M	Education	88360793	Computer Literacy skills workshop	Opportunities for students to learn and understand the basics of computers	11:00	BELLIB	49656995	FALSE	06/08/23
PO215 5PP5	Education	58768424	Course info Open day	Show interested students what they will be learning in the various courses, and they can do after finishing them.	10:00	LEC119	98632595	TRUE	10/04/23
ZX9T2 33D3	Education	92490483	Study and motivation workshop	Motivational and study groups come together to help each other and discuss solutions and problems	09:00	AMPCPI	85648965	FALSE	30/06/23
FSH67 3CF	Art&Culture	56165009	Art Festival	Students meet and show off their artistic talent	15:00	CPTHAL	87481695	TRUE	29/05/23
NR63 AWE	Agriculture	19005619	Food from around the world	Food from different cultures meet in one place	12:00	BELHAL	56196597	FALSE	12/07/23
HT84A 53V	Sports	19563852	Rugby	Teams of 7	10:00	BSPRUB	89651569	FALSE	16/10/23
BM73 G79K	Social	18916858	First years meet	Get to know your fellow peers	16:00	BELHAL	18958961	TRUE	19/03/23
DS74K 68W	Art&Culture	85900926	Karaoke	Students can sing their favourite music	16:00	LEC119	54645188	TRUE	10/10/23
AF502 LS2	Social	15001568	Games day	Bring your system and join a LAN of peers	14:00	CPTHAL	18894635	FALSE	17/06/23

Student table

The Student Table is linked to the Volunteer Table (One-to-Many Relationship) which is linked to the Event Table (Many-to-Many).

The table functions to store the student credentials which would then be used to access the system. After using the credentials to login, students are given two choices, the first being able to **create/host** an event and the second choice, being able to **attend** an event.

Those that chooses to **create/host** an event:

- Are only allowed to do one at a time until the current one expires/finishes.
- They can specify the event details and view the event status (to check whether it was approved or denied). Once approved, the event is put into the live events page.

Those that chooses to **attend** an event:

- Are allowed to be volunteers, where they would then have to register and to be approved/denied by the event leader for the event.
- Be an attendant.
- **Both options can attend multiple events.**

Attributes and sample data

- Student number: Integer (8)
- Name: String (40)
- Surname: String (40)
- Password: String (40)
- Email: String (40)

Student Number	Name	Surname	Password	Email
22134556	Linda	Lwanda	Llwanda@1999	lwandalinda@mycput.ac.za
23221213	Matthew	Heinz	mHeinz@1990	mheinz@mycput.ac.za
26583494	David	Spade	Dspade@1991	dspade@mycput.ac.za
24356533	Lisa	Adams	Adamsl@2000	adamsl@mycput.ac.za
24563314	Deji	Calipso	dejiCalipso@1993	calipsodeji@mycput.ac.za
22345678	Jan	Van Wyk	vanWykjan@2000	janvanwyk@mycput.ac.za
20987654	Shannon	Pretorius	pretoriusS@1990	spretorius@mycput.ac.za
22276543	Aphiwe	Odwa	Aodwa@1992	aphiweodwa@mycput.ac.za
23459876	Lukas	Van Der Berg	lukasVDB@2000	vdblukas@mycput.ac.za
20009876	Yvonne	Lusanda	lusandaY@1995	lusandayvonne@mycput.ac.za

UI Designs

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

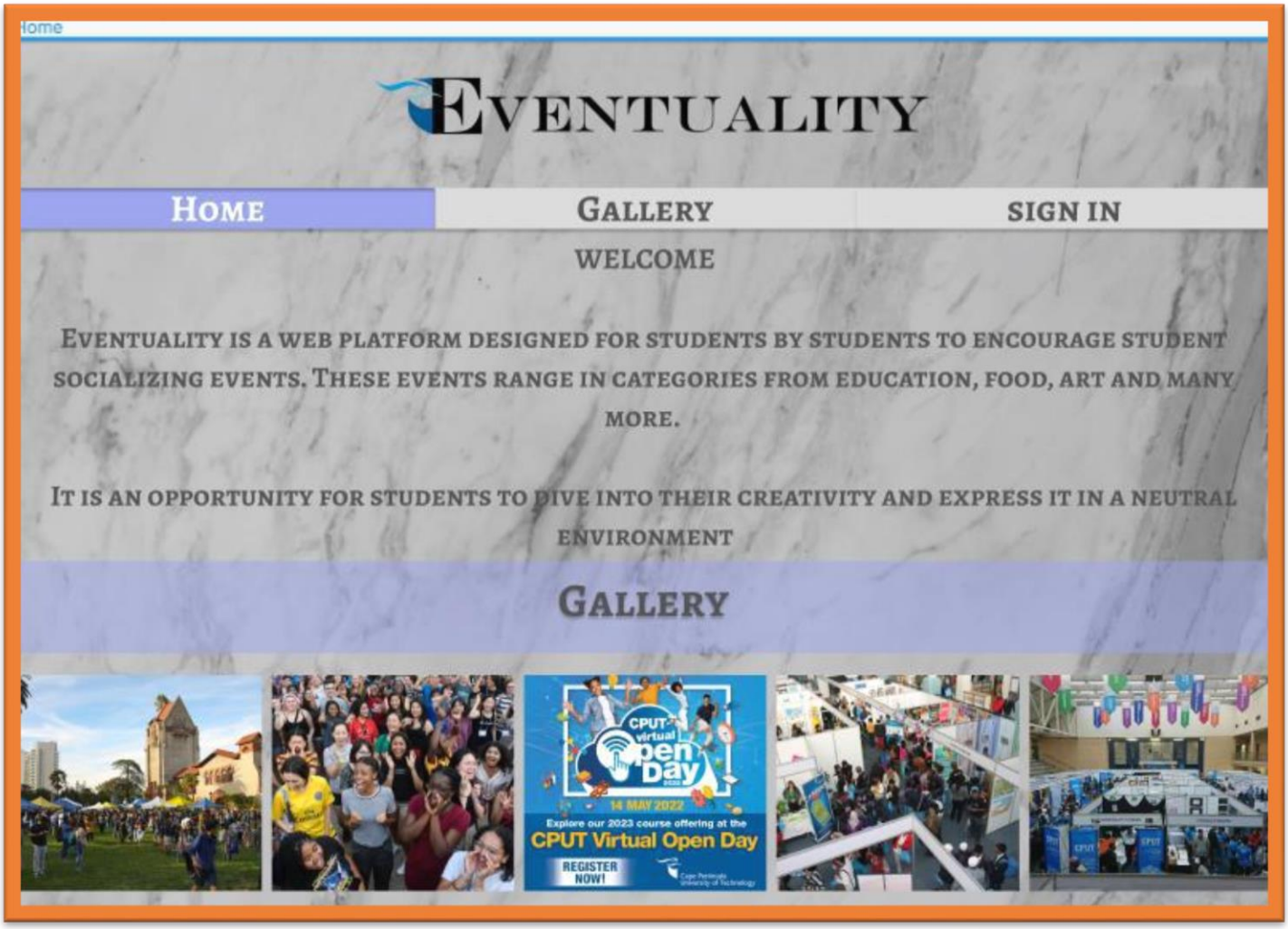


FIGURE 1: HOME PAGE

The HOME page has a simplistic navigation bar along with a simple welcome text to give users an idea as to what the platform allows users to do.

The GALLERY tab navigates the user to the GALLERY section below on the HOME page which shows images of events that had taken place.

The SIGN IN tab navigates the user to the LOGIN page.

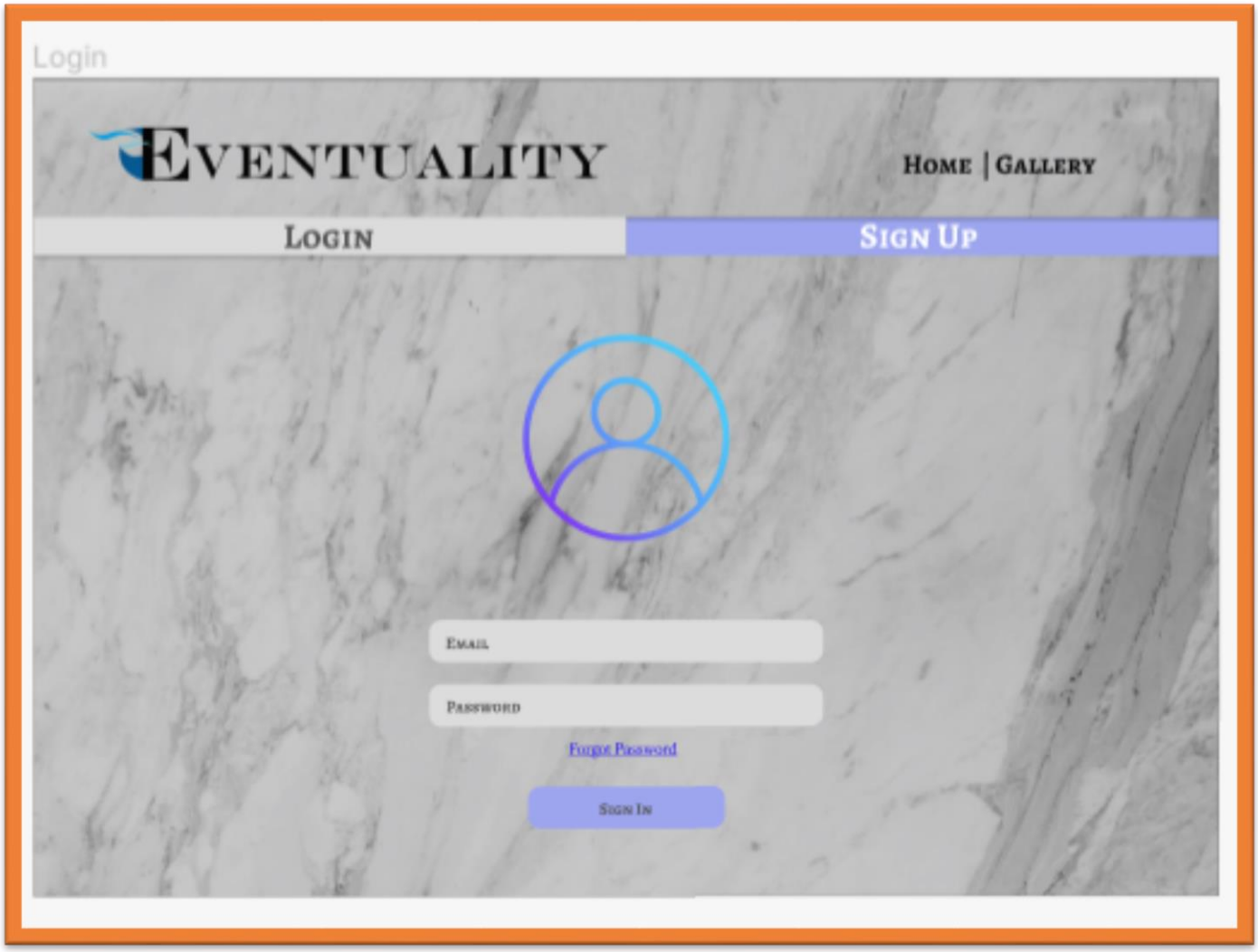


FIGURE 2: LOGIN PAGE

On the LOGIN PAGE, the student's email and password would be used to sign in, which would need to correspond to the attributes and records enclosed in the database whilst signing in. 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 is granted access).

If students aren't registered on the site, they are therefore required to sign up on it (by clicking the SIGN UP tab which would navigate the student to the SIGN UP page).

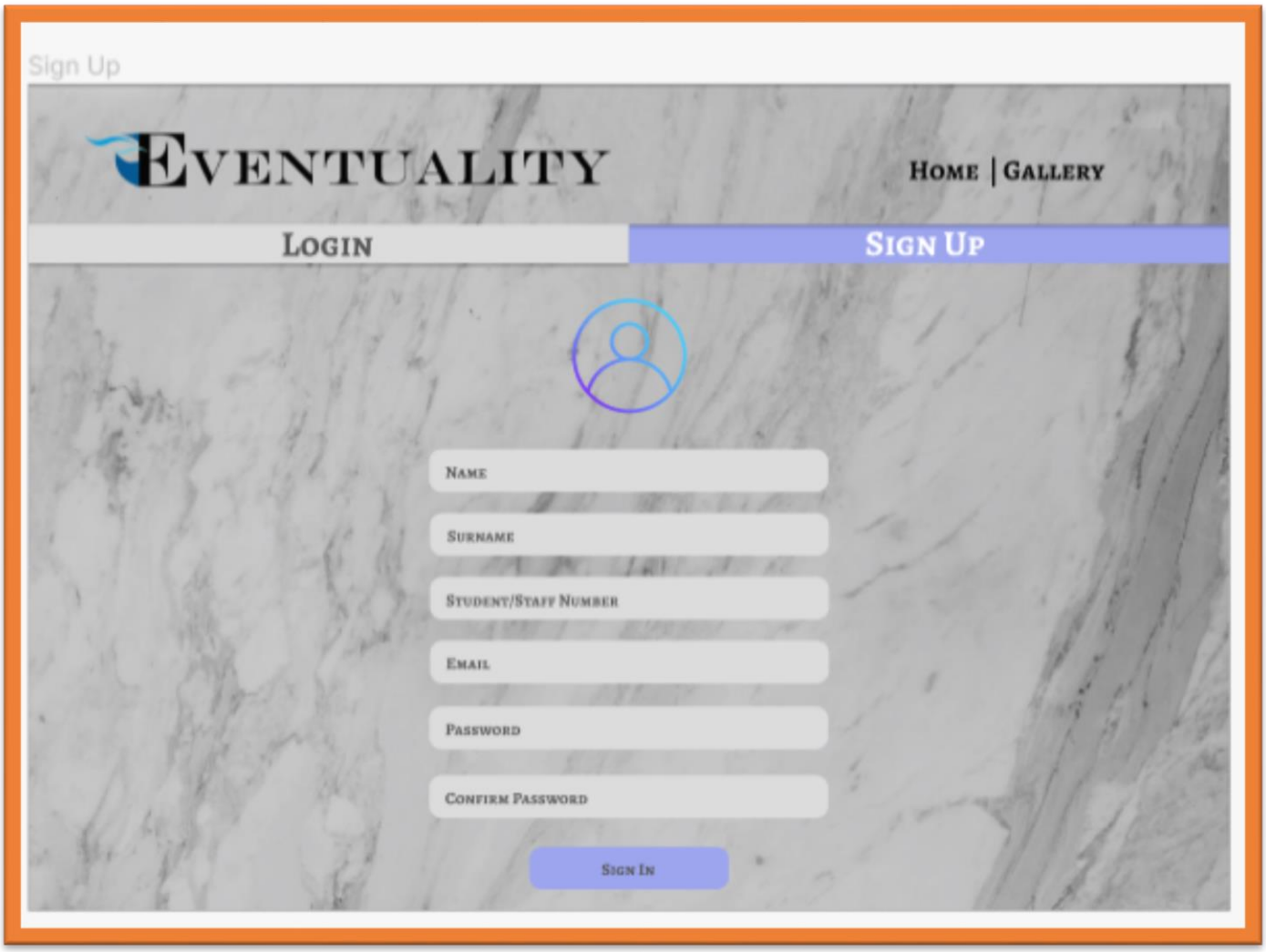


FIGURE 3: SIGN UP PAGE

On the SIGN UP PAGE, the student's name, surname, student number, email and password would be required to register themselves on the site. The system would therefore record their information onto the database which would then allow them (students) to login in with the required credentials (specifically email and password).

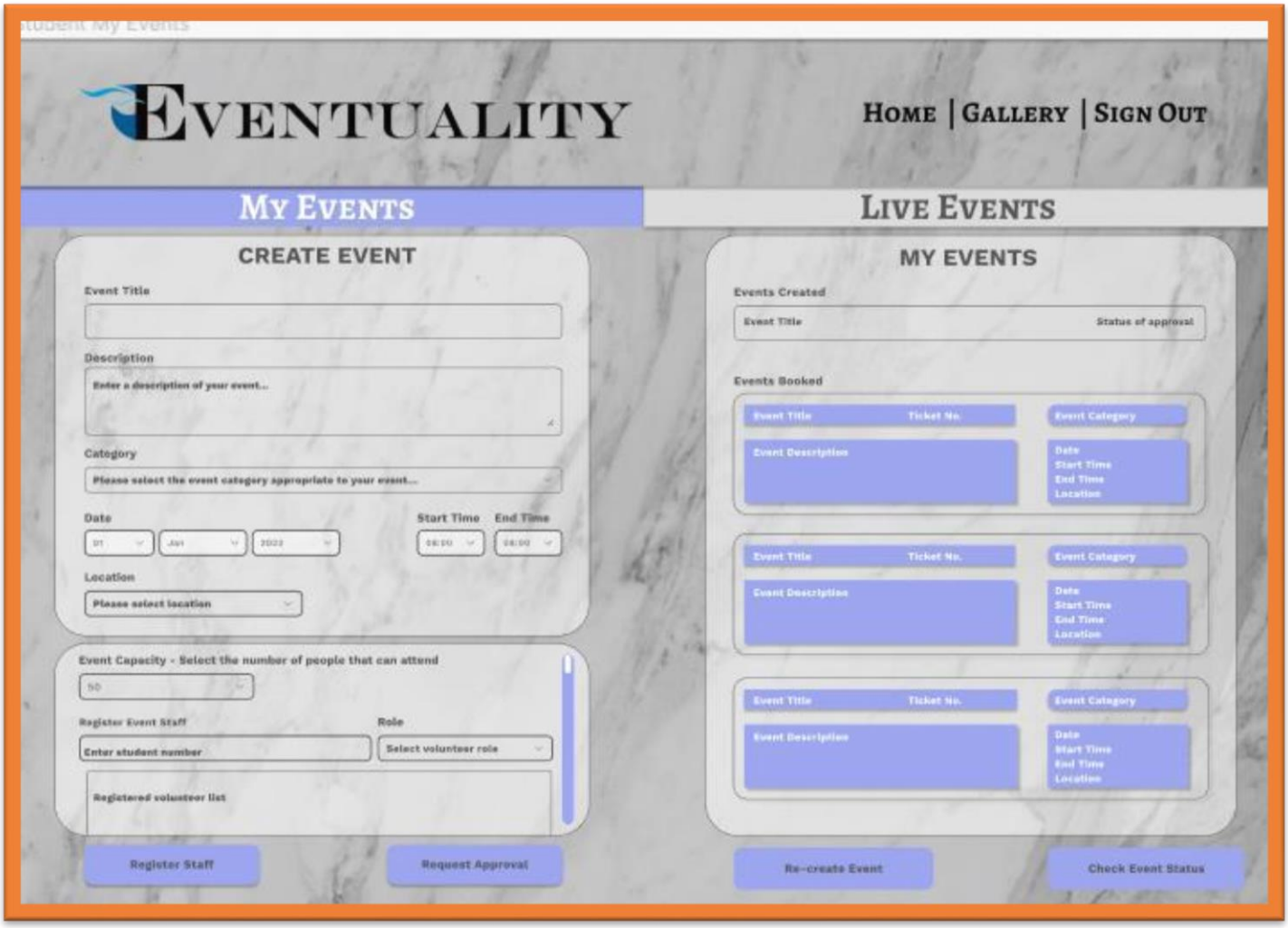


FIGURE 4: STUDENT EVENTS PAGE – MY EVENTS TAB

This is the page accessible to 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, whereby making sure the information entered by students in the creation of the event is valid and correct before storing the details in the database (which therefore be overseen by all members).

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.

Students are also able to view events they have reserved to attend.

FIGURE 5: STUDENT EVENTS PAGE – LIVE EVENTS TAB

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

- New users must register.
- They can only register if they have a student/staff number.
- A student can become a volunteer.
- An event can have multiple volunteers.
- A Student can be a volunteer for multiple events.
- A Student can be the leader to one active event at a time.
- A Student/Lecturer can book attendance to a live/approved event.
- An event can have multiple bookings.
- A Student/Lecture can only book one ticket to an event.
- They can book to multiple events.
- A lecturer can approve or deny multiple events.
- If event is denied student can create a new event.
- A student can edit the event if its pending.
- They cannot edit if its approved,
- An event can only be one type, many events can be the same type.
- An event must be held at a location.
- Only one location can have an event at a time.
- Students/lecturer can request password change if forgotten.
- Students are not charged for booking.
- Booking must be made 7 days before event occurs.

Reflection

Most of the design and functional limitations worked out, the team has had the necessary comprehension to grasp the development route that needs to be undertaken.

During this phase we completed the database design which had several issues as changes had to be done a couple of times (this was to ensure that the information throughout the database had the proper relationships). Also ensuring that the ERD held all the information necessary for processing inputs and providing proper outputs.

We also finished our wireframes and ensured that they had easy navigation for our users. At the same time, great consideration was taken into the multiple design laws, by which we were confident in our designing of a simple application that fulfils the needs of our users. As this is an internal application, the design would be CPUT themed.

With all the planning now done we are ready to start building the application. We are already working on the base of the application which would therefore be worked on by all team members. We are in the process of creating all the pages and classes that are needed, when that is done, the dividing of all functions that need to be coded amongst the team will be done.