

RAJSHAHI UNIVERSITY OF ENGINEERING AND TECHNOLOGY



PROJECT REPORT

Course No: CSE 2100

Course Title: Software Development Project-1

Submitted to:

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Project title: Online booking system for RUET Gymnasium.

Introduction:

This is a simple web-based project. The project is to help the students of RUET to book instrument of the gymnasium of RUET easily online. HTML, CSS, PHP and MySQL have been used for this project. Also XAMPP was used for the use of localhost.

Requirements:

Software:

1. Sublime text-Text editor
2. XAMPP-Local server
3. Mozilla Firefox and Google Chrome-Browser

Language:

1. HTML
2. CSS
3. PHP
4. MySQL

Others:

1. Template from w3school

Description:

The project is about a dynamic website that helps the students of RUET to book any instrument of the RUET Gymnasium from anywhere, anytime, easily. It also helps the officer of the Gymnasium to allow manage the instrument booking and keep track of the instruments of the Gymnasium, not to forget about the easy recording of students' data. The website is connected to a database which stores all the data of students booking record. Both the students and the Officer can check any bookings anytime easily.

To book any instrument from the gymnasium or get any information, a student have to create an account in the website. For each student, there are separate tables to contain the booking record. But there is a common table for all students where their password and other authentic information is saved.

For security issues, the pages for the control of the booking is offline but connected to the server, only with the officer's computer so that the control page cannot be accessed remotely and as the officer will only issue requests of booking at office hour only, keeping the officer pages offline seemed to be a better idea.

HTML and CSS has been used for the website's front-end features. PHP has been used for the back-end issues of the website and MySQL to control database issues.

How the project works:

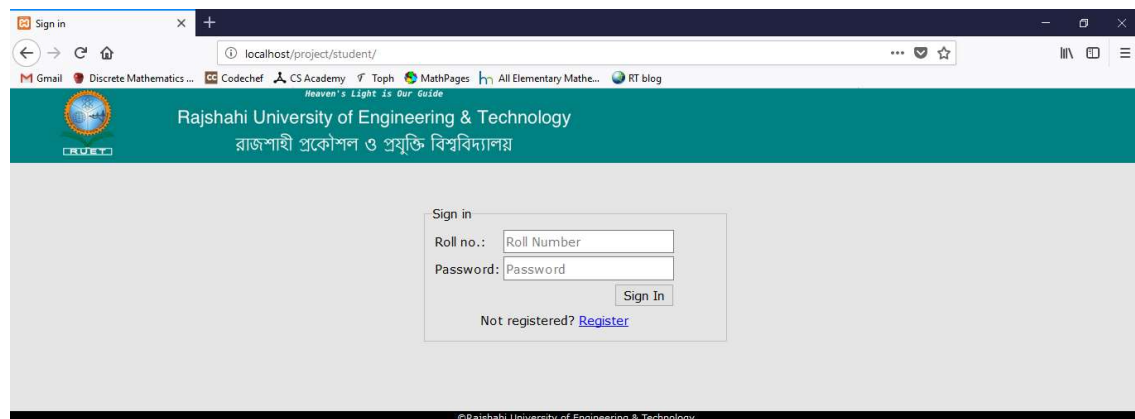
The working process of student pages:

1. When someone enters the website, the login page appears. If the user is registered, then s/he can enter using valid user id (roll no.) and password. If not registered, the visitor will have an option to redirect to the registration page where s/he can create a new account with valid information. When registered, a new record is entered into the student information table and a new table is created dynamically for the student to record all the booking request s/he will make in future.
2. After the user has entered valid information, the user will be redirected to his record page where his previous bookings (up to 10 recordings at reverse order) will be shown. Every record will contain information about the time and date of booking, name and amount of the instrument/s, time and date of collecting the instrument, time to return the instrument and the request has been issued or not. If issued, it will show if the request is allowed or not. If not issued, it will show that it is still pending.
3. There is an option for a new booking request where the user can request for a new booking. After the request is made, a new record is entered into the corresponding students table of booking and another record is added to the officers table of pending requests.

Working of the officer pages:

1. Every time the officer of the gymnasium enters the website, he has to login using valid authentication, obviously for security issues.
2. After he has entered the website, he will see an overview of the information of the gymnasium. There will be an option to check the pending requests. There he can observe if there are any requests available or not.
3. After reading any request, if the officer considers it good, he has the option to allow, deny otherwise. The request being issued, the database will be updated.

Screenshots of the project:



History x +

localhost/project/student/?sign_in

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Profile

Logout

Your bookings

Booking date	Booking time	Instrument	Amount	Date of taking	Time of taking	Time of return	Issue
0000-00-00	00:00:00	fixed_barbell	5	2018-07-16	17:30:00	18:00:00	Allowed
0000-00-00	00:00:00	kettlebell	5	2018-07-10	05:00:00	06:00:00	Denied
0000-00-00	00:00:00	thick_handled_barbell	2	2018-07-13	07:30:00	08:00:00	Allowed
0000-00-00	00:00:00	spin_bike	2	2018-07-13	08:00:00	08:15:00	Denied
0000-00-00	00:00:00	football	5	2018-07-12	15:30:00	18:30:00	Allowed
Refresh			book instrument				

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Booking Instrument x +

localhost/project/student/?booking

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Instructions

1. Make sure no field is empty.
2. You will have to bring your ID card with you when you come to collect your desired instrument.
3. You have to return the instrument you book the same day you collect them.
4. You will be held responsible for the instrument after you collect the instrument until you return it/ them.

Instrument booking

Instrument:

Number of instruments:

Date of collecting instrument:

Time to collect:

Time to return:

[Cancel](#) [Proceed](#)

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History x Control room x +

localhost/project/officer_access/?enter

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[Change info](#)

[Officer history](#)

[Logout](#)

Issue instruments to students

There are 1 pending requests

[See all](#)

Previous issues

Filter by

Roll no.:

Instrument:

[filter](#)

Instrument info

- Fixed weight dumbbell(10)
- Adjustable dumbbell(0)
- EZ Curlbar(0)
- Fixed barbell(0)
- Football(1)
- Thick-handled barbell(0)
- Triceps bar(0)
- Treadmill(0)
- Spin bike(0)
- Sandbag(0)
- Kettlebell(0)
- Chin-up bar(0)

[Add new instruments](#)

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History x Issue requests x +

localhost/project/officer_access/?requests

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Request from	Request date	Request time	Instrument name	Amount	Date of collecting	Time to collect	Time to return	Confirm
1603013	0000-00-00	00:00:00	Football	2	2018-09-20	17:00:00	18:30:00	Allow Deny

[Home](#)

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Conclusion: Although the web-project does not provide enough functions and high-level of security, it still makes the booking system a lot easier.

Resources:

1. W3School
2. Build your own database driven website using PHP and MySQL by Kevin Yank
3. HTML and CSS-Design and Build Websites by Jon Duckett