

ISIT307 A2 Report: GoBike Web Application

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1. List of Website Files

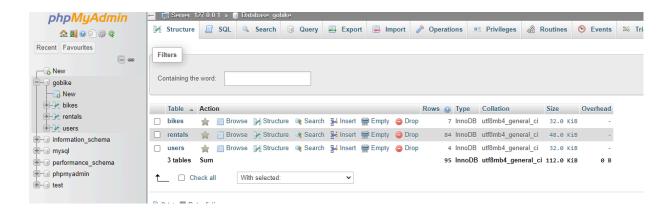
Name	Date modified	Туре	Size
admin_bikes.php	20-Aug-24 4:59 PM	PHP Source File	4 KB
admin_rentals.php	20-Aug-24 5:02 PM	PHP Source File	18 KB
database.php	18-Aug-24 11:00 PM	PHP Source File	1 KB
edit_bike.php	20-Aug-24 5:04 PM	PHP Source File	4 KB
end_rental.php	20-Aug-24 5:05 PM	PHP Source File	1 KB
gobike.sql	20-Aug-24 5:14 PM	SQL Source File	7 KB
list_bikes.php	20-Aug-24 5:07 PM	PHP Source File	21 KB
💀 login.php	20-Aug-24 4:58 PM	PHP Source File	3 KB
logout.php	20-Aug-24 4:58 PM	PHP Source File	1 KB
register.php	20-Aug-24 4:57 PM	PHP Source File	4 KB
search_bikes.php	20-Aug-24 5:08 PM	PHP Source File	2 KB
start_rental.php	20-Aug-24 5:08 PM	PHP Source File	1 KB
# style.css	20-Aug-24 5:09 PM	CSS Source File	5 KB

1.1. Description of Files

File	Description
register.php	User registration form for users to sign up.
login.php	Login form to authenticate users based on user type.
logout.php	Logs the user out by destroying the current session.
list_bikes.php	Main user interface for users to browse, rent and return bikes.
start_rental.php	Starts bike rental and inserts data into the database.
end_rental.php	
search_bikes.php Retrieves and displays the list of bikes based on search ter	
admin_bikes.php	Admin page for admins to view, insert and edit bikes.
edit_bike.php Handles the functionality of editing bikes.	
admin_rentals.php	Admin dashboard for managing rentals and other features.
database.php	Handles the connection to the SQL database (phpMyAdmin).
style.css	Handles the stylesheet of the entire project.

2. SQL Database (database.php)

2.1 GoBike Database



The database includes 3 tables - bikes, rentals and users.

2.2 Bikes Table



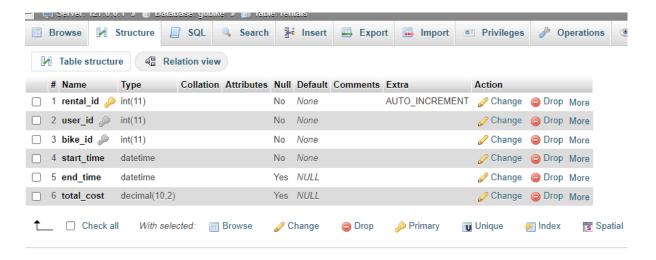
The bikes table has 4 columns - bike_id, renting_location, description and cost_per_hour.

2.3 Users Table



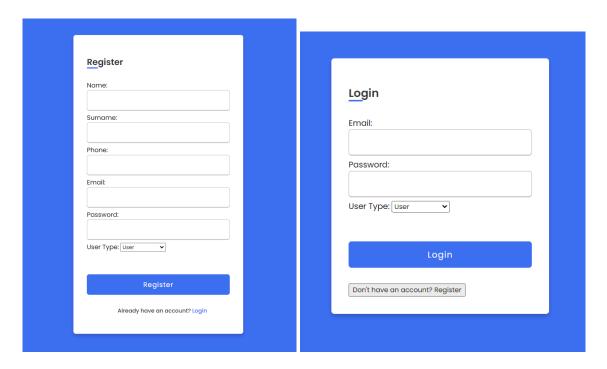
The users table has 7 columns - id, name, surname, phone, email, type and password.

2.4 Rentals Table



The rentals table has 6 columns - rental_id, user_id, bike_id, start_time, end_time and total_cost. These user_id and bike_id are foreign keys based on the users and bikes table, and the end_time and total_cost of the rentals are set to NULL by default as this information will be updated later when we end a rental.

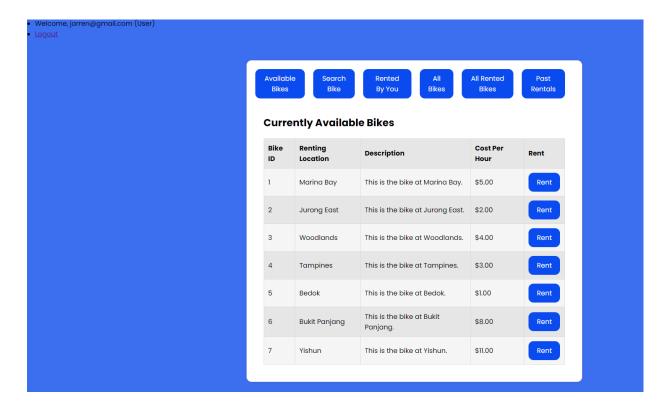
3. Registration and Login (registration.php, login.php, logout.php)



This is the registration screen where users can input their information into the respective fields to be signed up as either a user or admin.

They will then be sent to the login page, where they can either login as a user or admin. If the user is a normal user and they choose "Admin" user type, the login will fail. Logging in will take the user to different pages depending on the account type. The user will be able to logout at any point once they are logged in.

4. User Main Interface (list_bikes.php)



This is the main interface for the user to browse, rent and return bikes. They can switch from tab to tab to navigate the website.

5. Rental (start_rental.php)

Firstly, they can rent the bike of their choosing by clicking the Rent button on the list of available bikes. A success alert will then be shown.

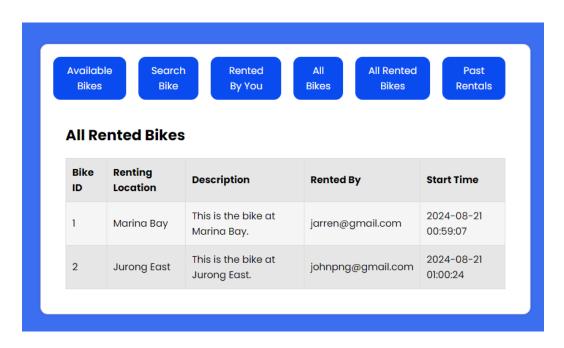


6. Search (search_bikes.php)

The user can also rent a bike via the "Search Bike" tab.

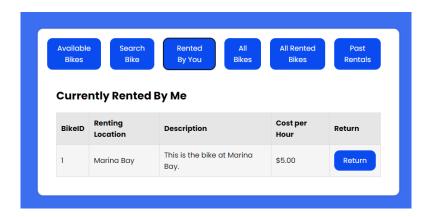
Availabl Bikes	e Search Bike	Rented All By You Bikes	All Rented Bikes	Past Rentals
Searc	h for a Bike			
Bike ID:				
1				
Renting	Location:			
Descript	ion:			
Searc	h			
Bike ID	Renting Location	Description	Cost Per Hour	Rent
	Marina Bay	This is the bike at Marina	\$5.00	Rent

The user can then see this record in the "All Rented Bikes" tab. The user can see if another user has booked another bike as well.

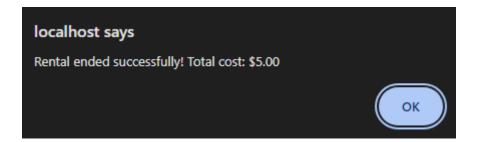


7. Return Bike (end_rental.php)

To return the bike, the user can press the "Rented By You" tab to view the bike that the user has booked.



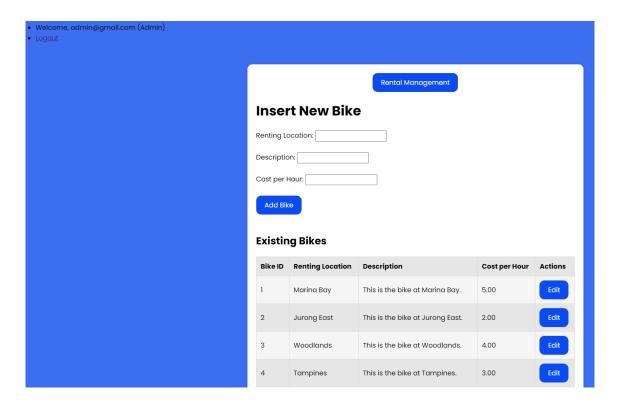
Users will get this alert after clicking on the Return button. The total cost is calculated based on the cost per hour of the bike and how long it has been between the start_time and end_time. If the time elapsed is less than an hour or between hours, the total cost will automatically round up to the cost of the nearest hour.



The user can then see their own and others' records in the "Past Rentals" tab.



8. Admin Bike Management (admin_bikes.php)



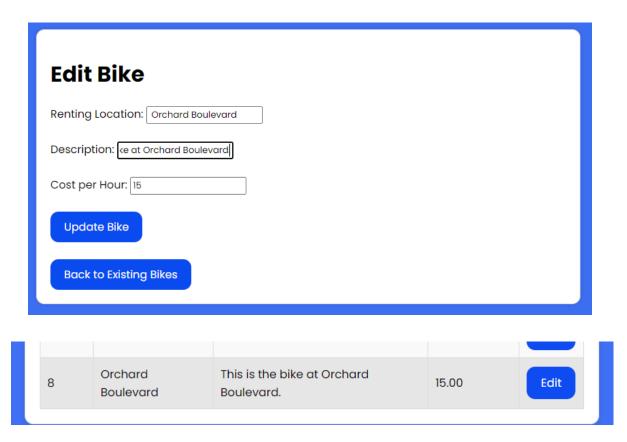
This is the page that admin users get sent to after logging in. The admin is able to insert new bikes into the database by inputting the information into the fields, as well as view the existing bikes. The admin can also click on Rental Management to be sent to that page.

Insert New Bike
Renting Location: Orchard
Description: This is the bike at Orchar
Cost per Hour: 13 💠
Add Bike

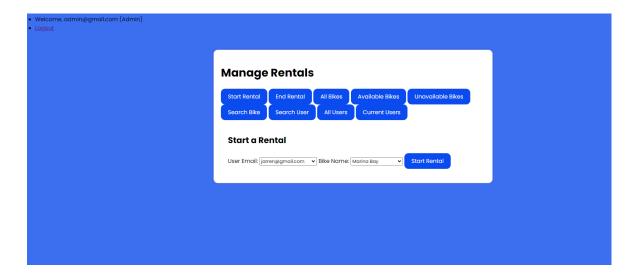
6	Bukit Panjang	This is the bike at Bukit Panjang.	8.00	Edit
7	Yishun	This is the bike at Yishun.	11.00	Edit
8	Orchard	This is the bike at Orchard.	13.00	Edit

9. Bike Editing (edit_bike.php)

The admin can then edit any of the bikes by clicking the "Edit" button beside the bike. They will be sent to the specific bike's page and be able to edit the information about the bike. After clicking the Update Bike button, they will be sent back to the Bike Management page with the changes in place.

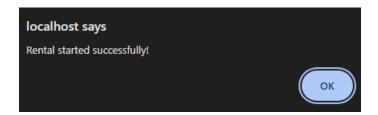


10. Admin Rental Management (admin_rentals.php)

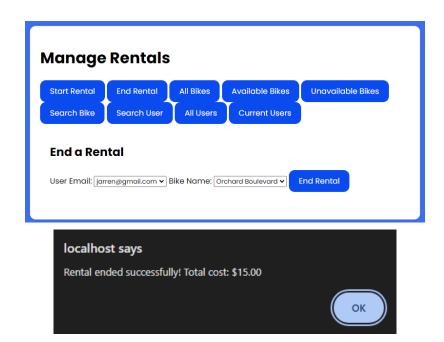


On this page, the admin can browse bikes, rentals and users. Firstly, the admin is able to start a rental for any user using any available bike using dropdown lists.

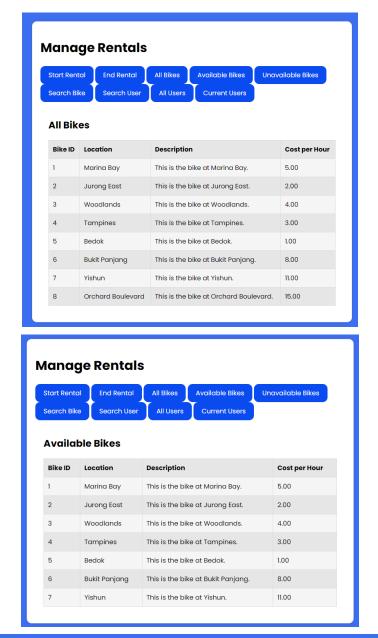
Once rental is started, they will receive a success message.

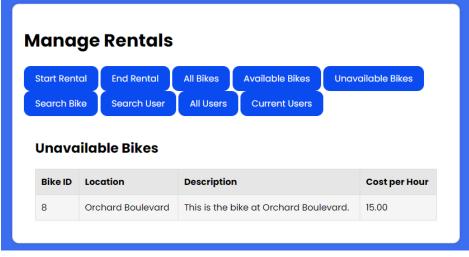


The admin can then end the rental in the "End Rental" tab, where they can choose from dropdown lists of the existing rentals. They will then also receive a success message.

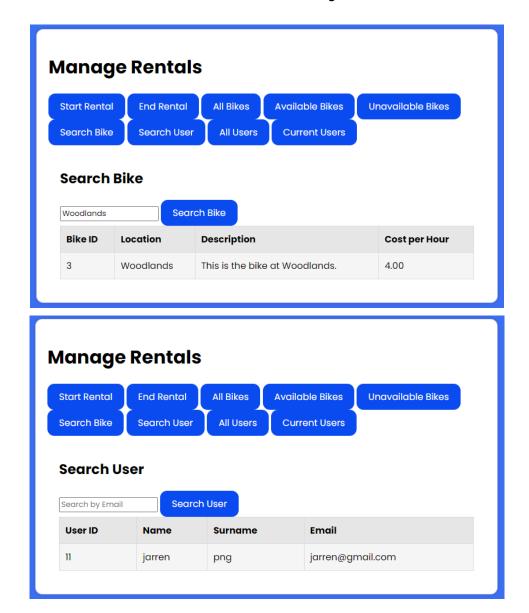


The admin can also view a list of all bikes, all available bikes, and unavailable bikes.





The admin can also search for either a bike or user using a search box.



Jarren Png

The admin can also view a list of all users and users who are currently renting a bike.

