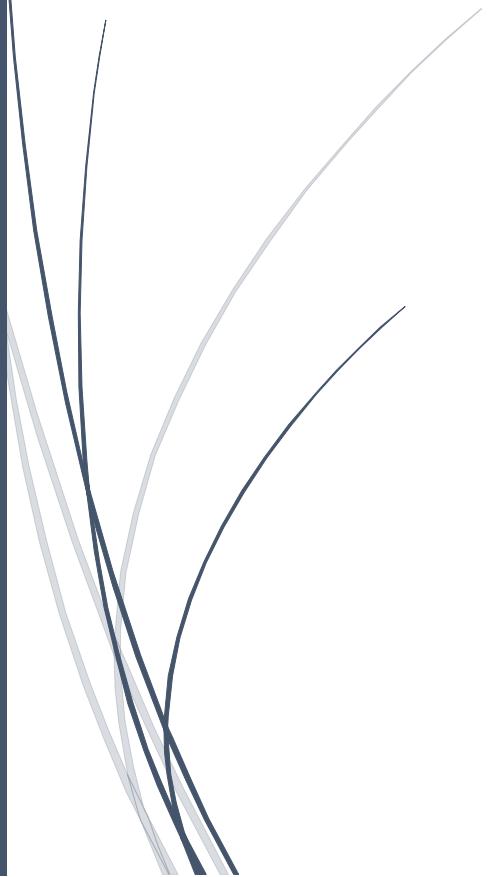


8/20/2020

Bike Rental System



Kely Weerasooriya

Table of Content

- 1. Introduction**
- 2. Objectives**
- 3. Project Outcomes**
- 4. Problem in existing system**
- 5. Resource Requirements**
- 6. Future Developments**
- 7. ER Diagram**
- 8. Use case Diagram**
- 9. Class Diagram**
- 10. Screenshots of website**
- 11. Challenges**
- 12. Conclusion**
- 13. Workload matrix**

Introduction

Bike rental had become one of the most environmentally friendly business that attract many tourists and local people who love the beauty of nature with the sense of helping world's ozone layer too. There is this great cycle of progress that occurs when a city sees more bikes on the road. The infrastructure changes to accommodate those bikes. More bike lanes. More cycle tracks. More multi-use recreational paths. Then what happens? Well, these changes make cycling feel more accessible, easier, and safer for hesitant newbies. As a bonus, they also make the city safer for low-income residents who might rely on bikes as their primary form of transportation.

I plan to make website for bike rental service. There I hope to give more possibilities for customers. After customer can do their reservation online. It is more helpful and easiest thing. Customer can watch different bike categories and price and time duration, rental procedure. Also, customer can check the company's location using Google map.

Objectives

"Turbo" is an online bike rental booking service for tourists and bicycle enthusiasts looking for a relatively less expensive way to tour the city, get to work or a way to rent a specific bike for a specific reason. Considering the increasing dependence on the foreign oil and the effect pollutants from fossil fuels have on the atmosphere, riding bicycles more often is not only beneficial to our country's health and economy but also to our planets well beings.

Project Outcomes

There have few targets results for each task.

- Login page give chance register customer (and admin rights can be given via DB to existing user). Every customer must register account before rental procedure or feedback. After given login option for watch more details about service and do booking.
- We give chance from category page for select bicycle type and watch more details. Also, we give there booking facilities if they need book early.
- Rental procedure page we show how get rent bicycle and what need for procedure.
- About us page showed about us service, team and location details.
- When category page bike category option if select, its showing booking/feedback options. After redirect booking/feedback page for selected bicycle.
- If user is signed in user can book or give feedback for bikes, other users can see only other users' comments, but not bookings. Every user however can see his/her bookings from booking page.
- Admins can see/mark paid/delete all bookings from booking page also can see users e-mail for sending needed payment information.
- User can select from and to date for booking and make reservation for bike.
- Finally, will send booking details to user via email (not currently implemented on App level).
- On feedback page shows every feedback entry from feedback table by newest first
- After logged in user has clicked feedback/comment button under bike page, user is forwarded to Feedback entry page, where user can see brief bike details enter:
 - feedback title
 - feedback/comment text
- After saving comment, comment is uploaded to feedback table.
- Admins can see feedbacks on feedback page and delete unwanted ones if need be.
- Users can see other users' comments also, but all users' names are not fully shown for security/privacy reasons, only admins can see full user names on feedback page.

Problem in the existing system

Currently do not have website for this “turbo bike” service. There given many problems for us. Because less people know about information, sometimes customer does not satisfy if he/she cannot book expected bike. Because already it is taken. So, this system gives us reserve early bikes from anywhere. It is very helpful to customer and their satisfaction. Also, they can search bikes which are available and more information about. And it is given facility for customer feedback too. So, people can watch it before booking bike if need be.

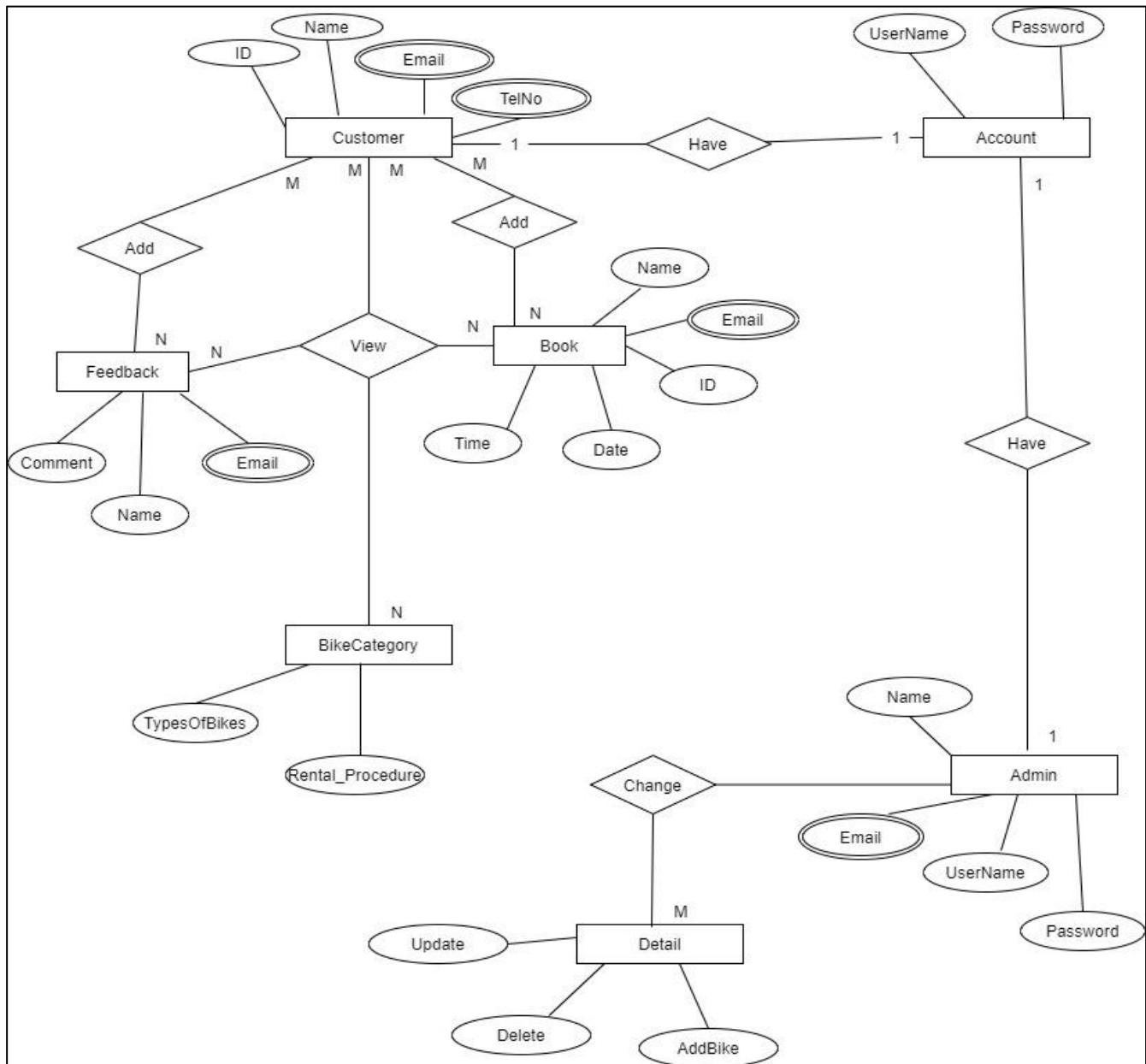
Resource Requirements

- **Hardware requirements**
 - ❖ Processor – At least 2.0GHZ
 - ❖ RAM – At least 2GB
- **Software requirements**
 - **On server side:**
 - ❖ Server Apache Tomcat 8 (or newer)
 - ❖ Java 8 or newer
 - ❖ Front end –JSP, HTML, CSS,
 - ❖ Back end – MySQL, Java, Servlet, JSP
 - **On client side:**
 - ❖ Editor instruments – NetBeans 8.2 (for product owner/programmer for editing)
 - ❖ Web browser – Google chrome, Firefox, or any up-to-date browser software either on Laptop, Desktop, Tablet, or smartphone
(Out-dated browser software and Internet Explorer browsers are not supported)
 - ❖ For editor also mysql-connector-java-8.0.20.jar is needed.
(This can be replaced by other jdbc mysql java driver but currently is used in this project!)

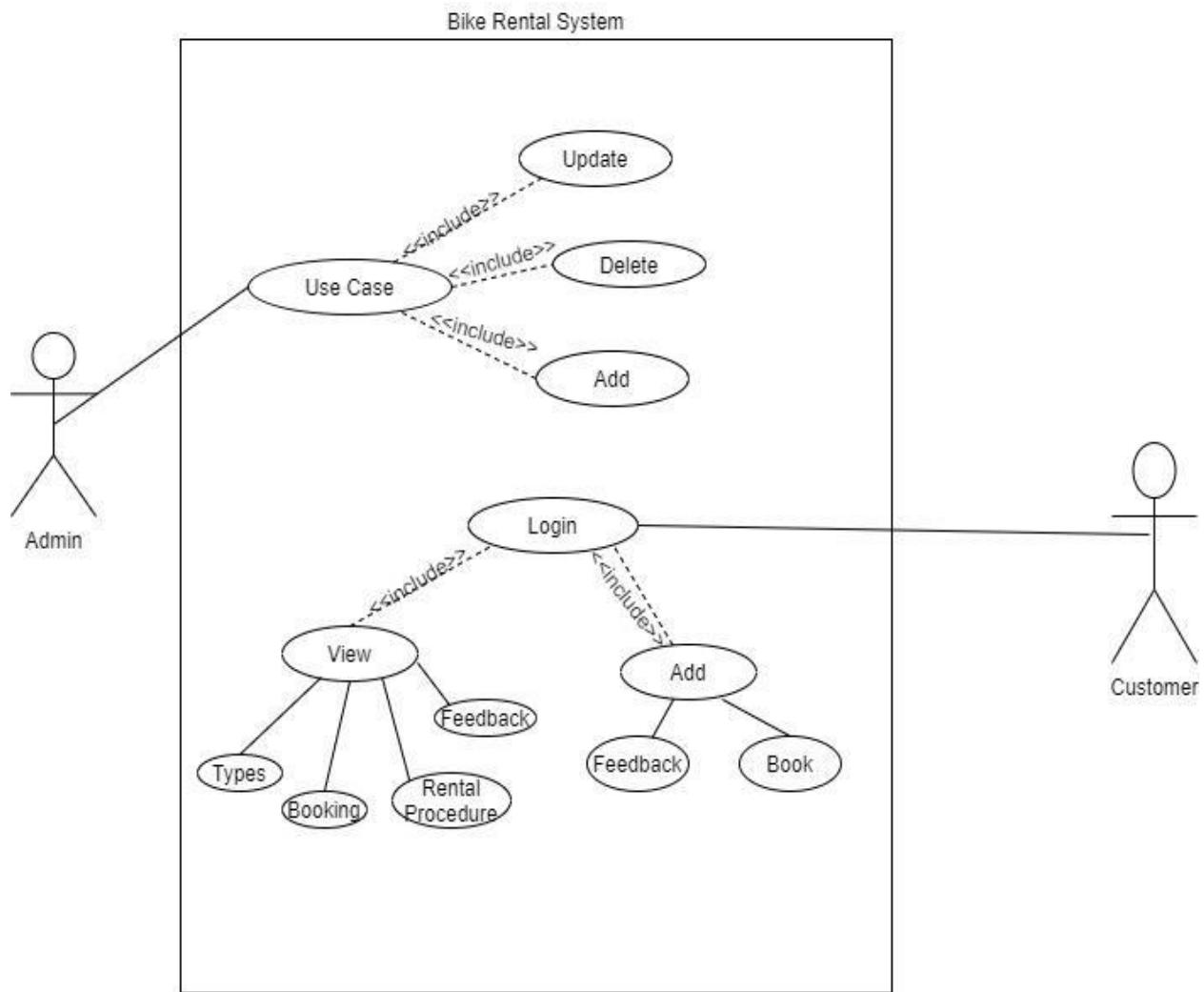
Future Development

For future development I plan to add online payment feature for customers. All new discount, new news about bikes, located places details future we will make feature to send notification for all customers to their email. As future development we plan to give online selling option for bike riding equipment. Future will improve emergency service for customers for inform if something happens emergency reason. Also, user/booking editing and maybe 2Fa authentication for more secure accounts for login.

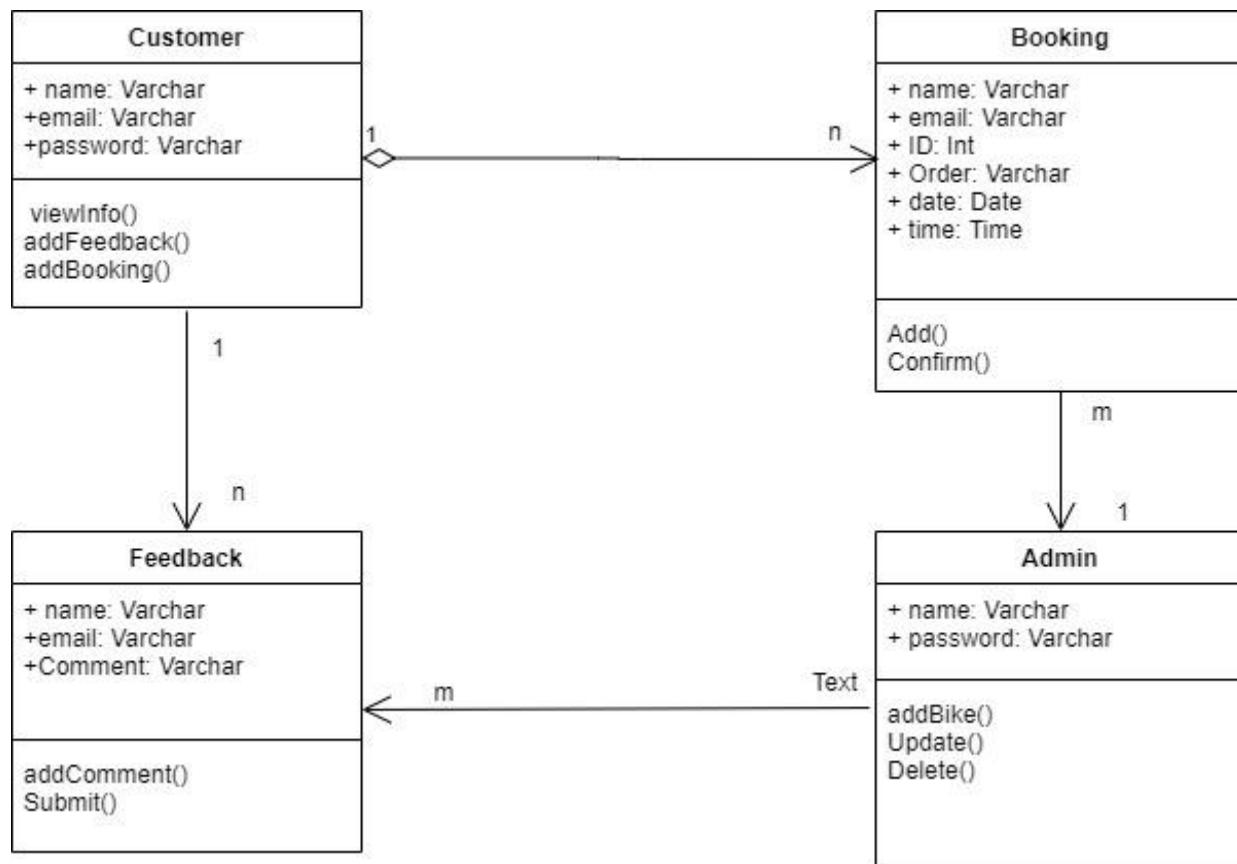
ER Diagram



Use Case Diagram

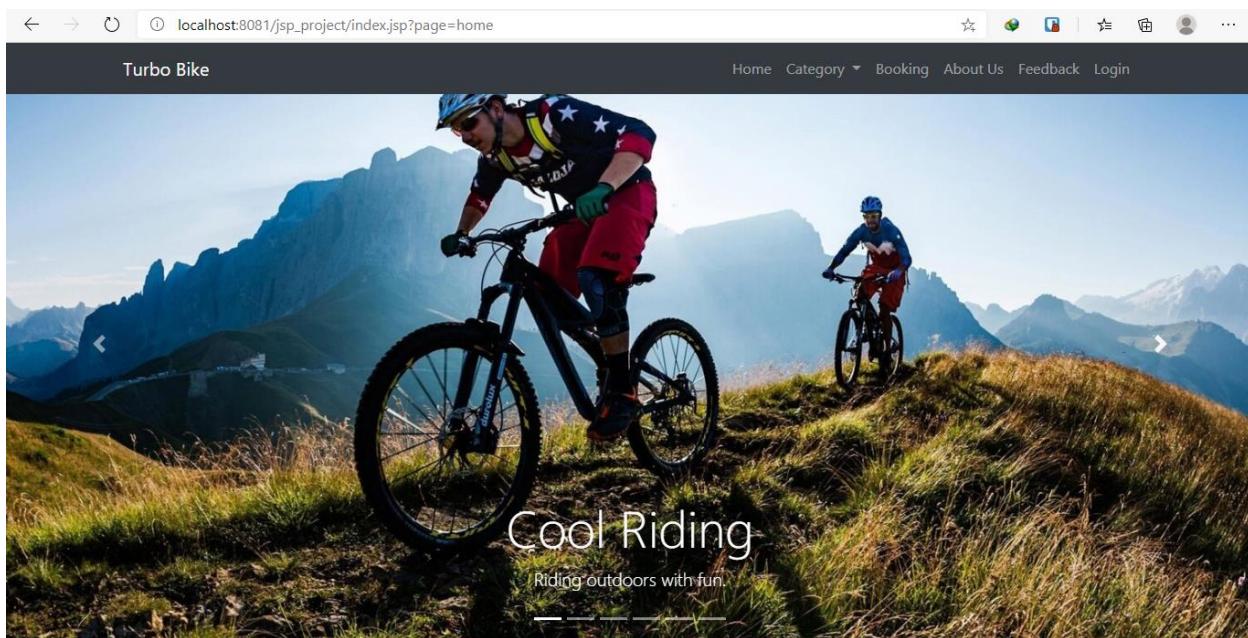


Class Diagram

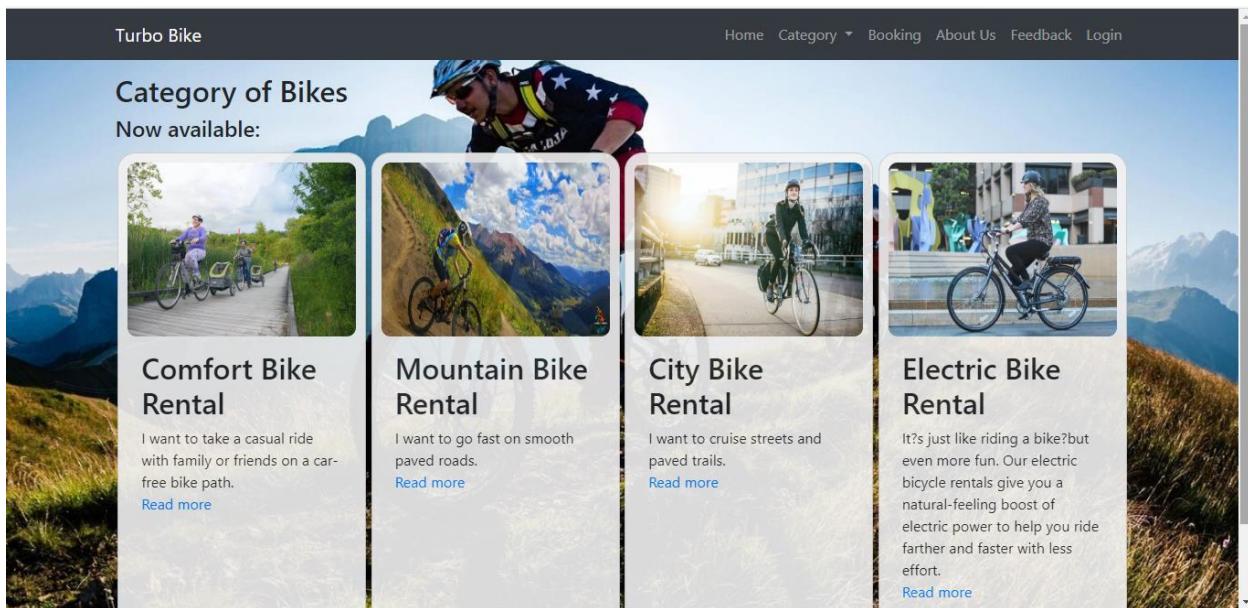


Screenshots of website

Home Page



Category Page – Customer View



Comfort Bike Rental

localhost:8081/jsp_project/index.jsp?page=category&cat=1

Turbo Bike

Home Category Booking About Us Feedback Login

Comfort Bike Rental

At the TurboRoot store, we have comfort/hybrid bicycles for rent for use on the Ohio & Erie Canal Towpath Trail in the Cuyahoga Valley National Park. Bicycles for rent are available on a first-come, first-served basis. Reservations are not required or accepted. Rentals are by the hour, minimum of one hour, with rental rates pro-rated for each fifteen-minute interval after the first hour. Two-hour minimum for e-bikes. We stop renting bikes 90 minutes before the store closing time. Bicycles MUST be returned before the store closing time or a late fee will be charged. See below for rental hours. We are open year-round, but bike rental may be restricted due to weather and trail conditions. You may call us at 330-657-2209 to verify availability. Also, check the Cuyahoga Valley National Park's Alerts and Conditions page to be aware of any trail closures. You must have a photo ID and a major credit card to rent bikes. You must be 18 years of age or older, or accompanied by a parent or guardian 18 or older. Helmets are included with all bicycle rentals.

Rental Details



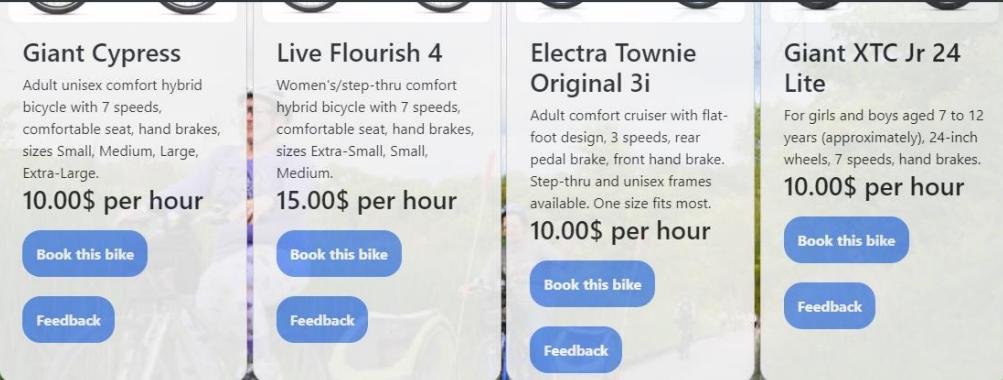
The image shows four different hybrid bicycles displayed in a row. From left to right: a blue hybrid bike, a pink hybrid bike, a white hybrid bike, and a multi-colored hybrid bike (orange, yellow, and black).

localhost:8081/jsp_project/index.jsp?page=category&cat=1

Turbo Bike

Home Category Booking About Us Feedback Login

Giant Cypress Adult unisex comfort hybrid bicycle with 7 speeds, comfortable seat, hand brakes, sizes Small, Medium, Large, Extra-Large. 10.00\$ per hour Book this bike Feedback	Live Flourish 4 Women's/step-thru comfort hybrid bicycle with 7 speeds, comfortable seat, hand brakes, sizes Extra-Small, Small, Medium. 15.00\$ per hour Book this bike Feedback	Electra Townie Original 3i Adult comfort cruiser with flat-foot design, 3 speeds, rear pedal brake, front hand brake. Step-thru and unisex frames available. One size fits most. 10.00\$ per hour Book this bike Feedback	Giant XTC Jr 24 Lite For girls and boys aged 7 to 12 years (approximately), 24-inch wheels, 7 speeds, hand brakes. 10.00\$ per hour Book this bike Feedback
---	---	---	---



The image shows four bicycle models listed in separate boxes. Each box contains the model name, a brief description, the rental price per hour, and two buttons: 'Book this bike' and 'Feedback'. The background of the boxes features a blurred image of a person riding a bicycle on a trail.

Giant Cypress
Adult unisex comfort hybrid bicycle with 7 speeds, comfortable seat, hand brakes, sizes Small, Medium, Large, Extra-Large.
10.00\$ per hour
[Book this bike](#)
[Feedback](#)

Live Flourish 4
Women's/step-thru comfort hybrid bicycle with 7 speeds, comfortable seat, hand brakes, sizes Extra-Small, Small, Medium.
15.00\$ per hour
[Book this bike](#)
[Feedback](#)

Electra Townie Original 3i
Adult comfort cruiser with flat-foot design, 3 speeds, rear pedal brake, front hand brake. Step-thru and unisex frames available. One size fits most.
10.00\$ per hour
[Book this bike](#)
[Feedback](#)

Giant XTC Jr 24 Lite
For girls and boys aged 7 to 12 years (approximately), 24-inch wheels, 7 speeds, hand brakes.
10.00\$ per hour
[Book this bike](#)
[Feedback](#)

localhost:8081/jsp_project/index.jsp?page=category&cat=1

Turbo Bike

Home Category Booking About Us Feedback Login

Adams Trail-a-Bike
Attaches to one of our rental bikes to allow a small child to pedal with you. Child must be 85 pounds or less. Compatible with our Giant Cypress and Liv Flourish rental bikes; cannot be used with the Electra Townie. Can be used with your own bike only if your bike uses a seatpost with 30.9mm diameter. Not for use on e-bikes.

Burley Cub Child Trailer
May carry one or two children, up to 100 pounds total weight. Secure safety harnesses. Can be attached to our rental bikes, or to your own bike (in some cases -- disc brakes, full suspension, and other non-standard frame features may interfere). Not for use on e-bikes. No pets.

Burley Tail Wagon Pet Trailer
You don't have to leave your best friend at home to enjoy a ride on the Towpath! Weight limit of 75 pounds. Can be attached to our rental bikes, or to your own bike (in some cases -- disc brakes, full suspension, and other non-standard frame features may interfere). Not for use on e-bikes.

10.00\$ per hour

[Book this bike](#) [Feedback](#)

10.00\$ per hour

[Book this bike](#) [Feedback](#)

Mountain Bike Rental

localhost:8081/jsp_project/index.jsp?page=category&cat=2

Mountain Bike Rental

A 10 kilo meters day trip through tea plantations to the Labookellie tea factory is quite challenging but worth every bit of it. Ask at the Single Tree Hotel about mountain-bike rental. Fat-tire fans will find plenty of steep dirt trails radiating into the hills from the outskirts of town. Enjoy cycling in the lap of nature and take breathtaking photography of the nature at its best. Tourists from all around the world come here to enjoy mountain biking and local villages of Sri Lanka.

Rental Details

Merida Big 9 20
Very good bike for mountain

Giant Glory 1
Good and comfortable bike for

The screenshot shows a web browser window for the 'Turbo Bike' website at localhost:8081/jsp_project/index.jsp?page=category&cat=2. The page displays two mountain bike rental options against a background image of a mountain landscape. On the left, a 'Merida Big 9 20' bike is shown with a price of 20.00\$ per hour. On the right, a 'Giant Glory 1' bike is shown with a price of 40.00\$ per hour. Both bikes have 'Book this bike' and 'Feedback' buttons. A central box titled 'Mountain Bike Rental Travel Tips' lists three tips: carrying a raincoat, wearing a cap and sports shoes, and cycling early or late in the day.

Turbo Bike

Merida Big 9 20
Very good bike for mountain riding!
20.00\$ per hour

Giant Glory 1
Good and comfortable bike for downhill riding in mountains!
40.00\$ per hour

Mountain Bike Rental Travel Tips

- ✓ Do carry a raincoat along, in case there is a weather change.
- ✓ Wear a cap and a good pair of sports shoes so as to enjoy the ride.
- ✓ Though there is no specific time, it is ideal to opt for cycling either early in the morning, or after noon. One can then relax at one of the many restaurants or enjoy high tea.

LANKA DEEPA

City Bike Rental

The screenshot shows a web browser window for the 'Turbo Bike' website at localhost:8081/jsp_project/index.jsp?page=category&cat=3. The page features a large image of a person riding a bicycle. A text box on the left provides information about city bike rentals, stating that they are performance hybrid bikes with 24 speeds and 32mm wide tires. Below this, a section titled 'Rental Details' shows two bicycle models: the 'Giant Escape 2' and the 'Liv Alight 2', each with a small image and the model name below it.

Turbo Bike

City Bike Rental

We have City Bicycles available for rent in our Turbo Bike store. These bikes are our best-sellers, and are perfect to rent if you don't have a bike of your own, but are looking for a fun way to enjoy a day out in our local parks! These bikes are sometimes referred to as "performance hybrid bikes" or "flat-bar road bikes." They feature lightweight aluminum frames, 24 speeds, hand brakes, and regular platform pedals. The tires are a "happy medium" 32mm wide, which makes them appropriate for riding on streets, but provide plenty of traction on bike paths. Not for use on mountain bike trails. We do not take reservations; bikes are available on a first-come, first-served basis only. Use of helmets is required. Helmets are provided with all rentals at no extra charge.

Rental Details

Giant Escape 2

Liv Alight 2

The screenshot shows a web browser window for the 'Turbo Bike' website. At the top, there are navigation links: Home, Category, Booking, About Us, Feedback, and Login. Below the header, there are two main sections for bicycle rentals:

- Left Section:** Shows a bicycle against a blurred background. Text: "Sizes: Small, Medium, Large, Extra-Large." and "15.00\$ per hour". Buttons: "Book this bike" and "Feedback".
- Right Section:** Shows a person riding a bicycle. Text: "Women's-specific sizes: Extra-Small, Small, Medium, Large" and "15.00\$ per hour". Buttons: "Book this bike" and "Feedback".

Frequently Asked Questions (FAQ)

Rental Rates: \$15 per Hour Sales Tax is additional. Daily and multi-day rentals are available for special events; please call us to make arrangements. Q. Is there a speedometer on the bikes? A. Yes, each bicycle has a CatEye Enduro cyclocomputer installed, which provides speed, distance, average speed, maximum speed, and ride time. We cannot guarantee the accuracy of the time-of-day clock on the CatEye Enduro computers. Q. Are emergency repair supplies included? A. Yes, each bicycle has a seat bag with a spare inner tube, tire levers, patch kit, and CO2 inflator. You will be charged for any of these supplies that are used or missing when you return the bike. Q. What if I break down and can't get going on my own? A. Support and pickup service are NOT provided. We recommend that you carry a phone and have access to a friend or taxi service should you need help out on the road. Q. Are water bottles included? A. Water bottle holders are provided on each bike. Bring your own bicycle-specific water bottles, or buy some in the store when you pick up the bike.

Electric Bike Rental

The screenshot shows a web browser window for the 'Turbo Bike' website. At the top, there are navigation links: Home, Category, Booking, About Us, Feedback, and Login. Below the header, there is a section for electric bike rental:

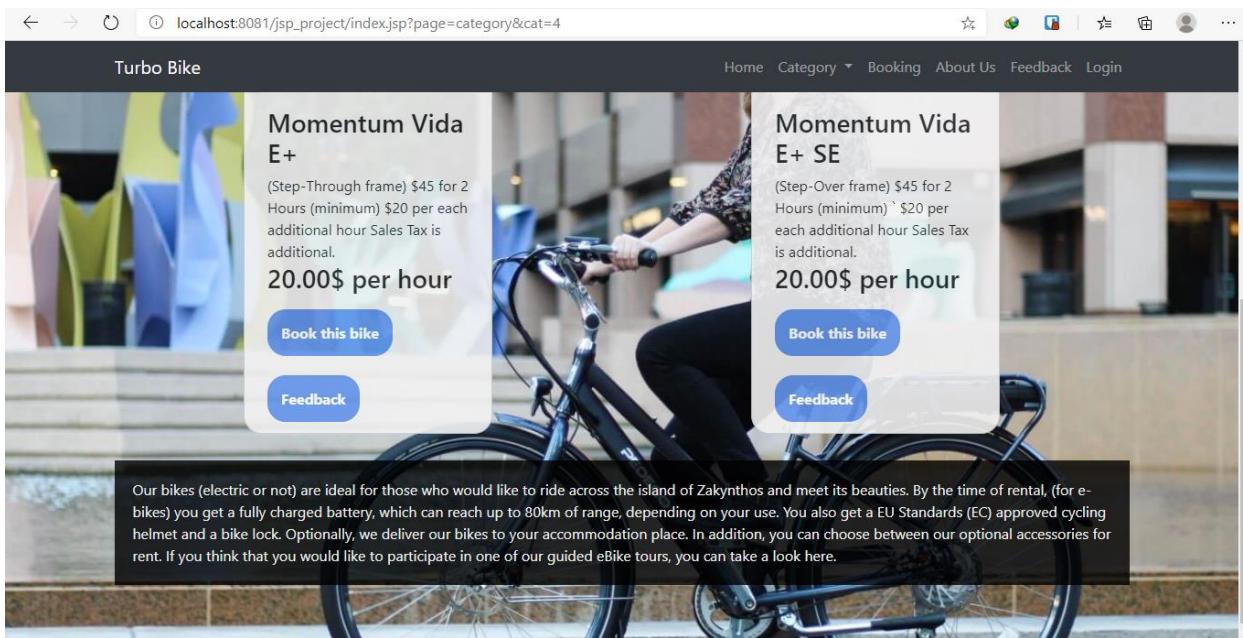
Electric Bike Rental

It's just like riding a bike—but even more fun. The Momentum Vida E+ features a motor which gives you a natural-feeling boost of electric power to help you ride farther and faster with less effort. It's the perfect way to explore the city, feel the wind on your face, or put a kick into your fitness routine. The frame is designed with a comfortable upright rider position, which gives it a confident, easygoing ride quality.

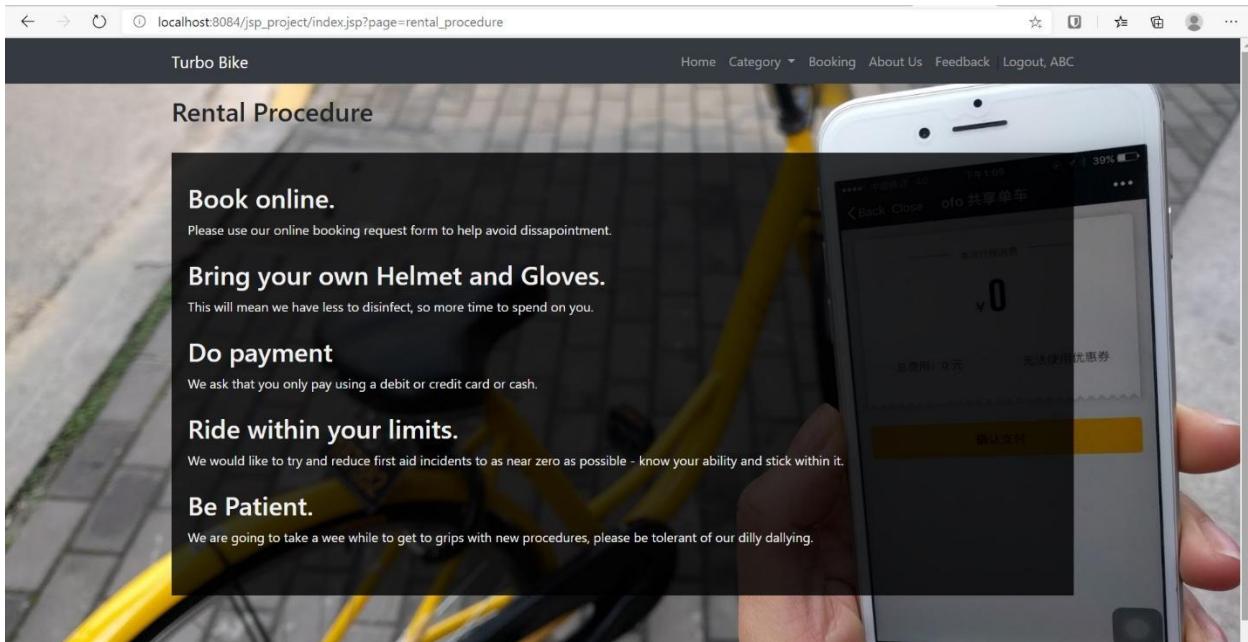
Rental Details

Momentum Vida E+ (StepOver) €15 for 2 hours

Momentum Vida E+ SE (Step Over) €15 for 2 hours



Rental Procedure



About Us Page

About us

Why Buy from Us?

Customer Service is our first priority. We are here to serve YOU and help you enjoy cycling! We treat ALL of our customers with the same attention and respect, whether you are a first-time buyer or a long-time friend, and whether you want to ride a bicycle for fitness, competition, saving gasoline, or family fun!

Become a Preferred Customer! When you purchase a bicycle from us, you are automatically a Preferred Customer, which entitles you to all of these benefits:

- 15% discount off all regularly-priced parts, clothing, and accessories purchased on the same day as the bicycle
- Free 90-Day Safety Check-Up on your new bike
- Free Turbo Bikes T-Shirt!

Professional Assembly by expert mechanics is included for all bicycles. We pride ourselves on taking the time and effort to do a better job. The big-box stores do not have the experience nor the time to ensure that your bicycle is assembled to be safe and work right, the first time.

We'll Fit You Right. Buying the wrong-sized bicycle can mean the difference between comfort and pain, fast and slow, safe and unsafe. We'll help you select the bicycle that is the correct size for you, and make any adjustments that are necessary to fine-tune the fit to your needs.

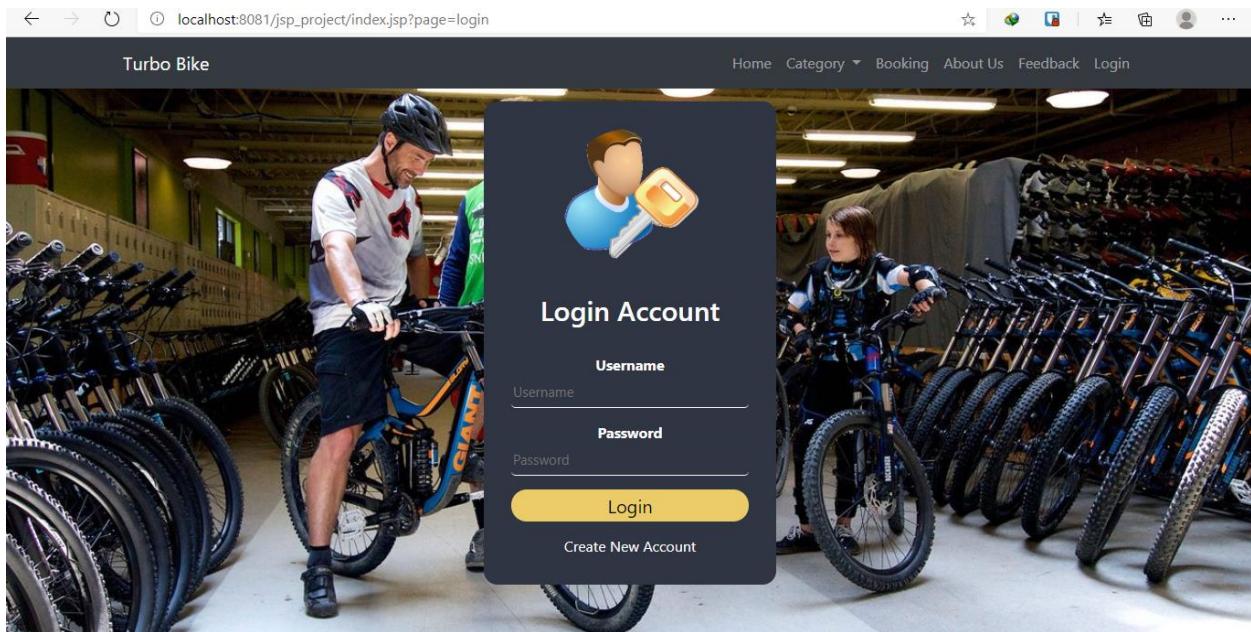
Dedicated and Experienced Staff. We have a core group of long-term employees who are passionate about bikes and love to share that passion. This means that when you visit us, you'll see familiar faces that you know. And more importantly, we'll get to know you (and your bike)!

Support the local economy! We are a locally-owned small business, and we try to support other local businesses when making our buying decisions!

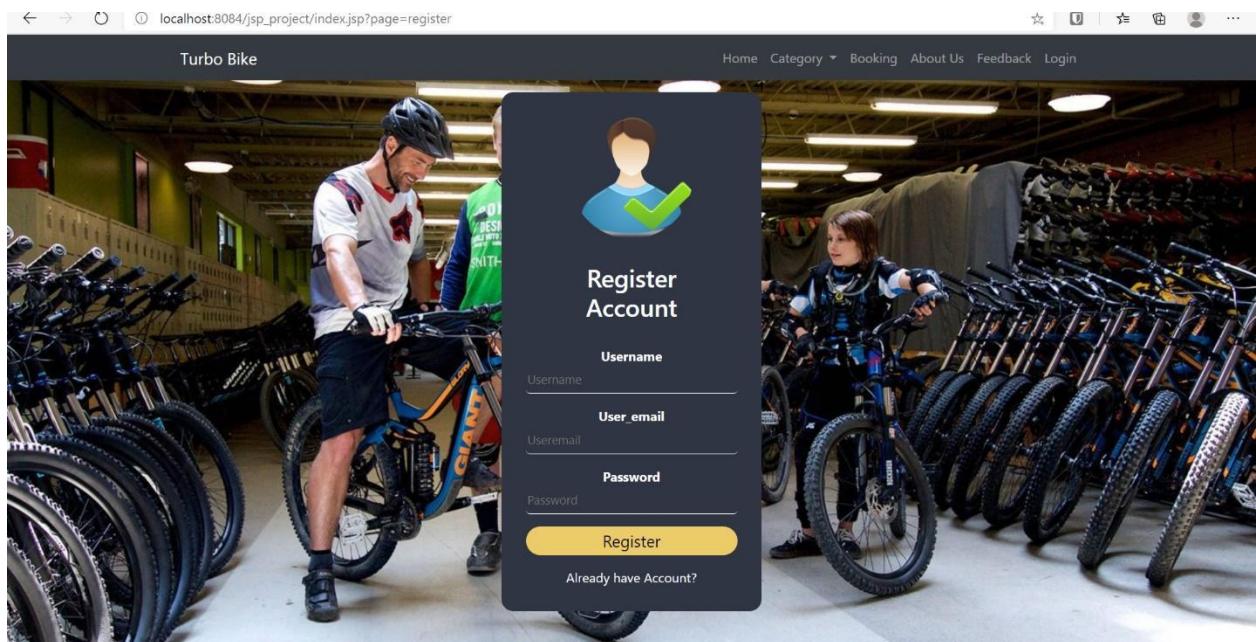
Contact us:

📞 By phone: +123456789
✉️ By email: company@company.lk
📍 By address: Some street, Some town, Some Country, 12345
📍 Find us on map:

Login Page



Register Page



Category – Admin View

The screenshot shows the 'Category of Bikes' section of the Turbo Bike website. The page title is 'Category of Bikes' and the sub-section title is 'Now available:'. There are four categories displayed in cards:

- Comfort Bike Rental**: A person riding a bike on a paved path. Description: 'I want to take a casual ride with family or friends on a car-free bike path.' Buttons: 'Read more' and '> Update category'.
- Mountain Bike Rental**: A person riding a bike on a steep, rocky trail. Description: 'I want to go fast on smooth paved roads.' Buttons: 'Read more' and '> Update category'.
- City Bike Rental**: A person riding a bike on a city street. Description: 'I want to cruise streets and paved trails.' Buttons: 'Read more' and '> Update category'.
- Electric Bike Rental**: A person riding an electric bike on a paved path. Description: 'It's just like riding a bike?but even more fun. Our electric bicycle rentals give you a natural-feeling boost of electric power to help you ride farther and faster with less effort.' Buttons: 'Read more' and '> Update category'.

The URL in the browser is localhost:8081/jsp_project/index.jsp?page=category&cat=4.

The screenshot shows the same 'Category of Bikes' section as the previous one, but with additional administrative controls. Each category card now includes a 'Delete category' button in addition to the 'Update category' button.

The URL in the browser is localhost:8081/jsp_project/index.jsp?page=category.

Mountain Bike – Admin View

The screenshot shows the homepage of a mountain bike rental website. At the top, there's a navigation bar with links for Home, Category, Booking, About Us, Feedback, and Logout, Mr .Lecturer. The main title "Mountain Bike Rental" is displayed prominently. Below the title is a descriptive text box: "A 10 kilo meters day trip through tea plantations to the Labookellie tea factory is quite challenging but worth every bit of it. Ask at the Single Tree Hotel about mountain-bike rental. Fat-tire fans will find plenty of steep dirt trails radiating into the hills from the outskirts of town. Enjoy cycling in the lap of nature and take breathtaking photography of the nature at its best. Tourists from all around the world come here to enjoy mountain biking and local villages of Sri Lanka." On the left side, there's a large image of a person riding a mountain bike on a trail. In the center, there are two bike models shown in boxes: "Merida Big 9 20" and "Giant Glory 1". Both boxes include a brief description and a "Book this bike" button. The background features a scenic view of mountains and clouds.

This screenshot shows the detailed view for each bike model. The "Merida Big 9 20" section includes the description "Very good bike for mountain riding!", the price "20.00\$ per hour", and buttons for "Book this bike", "Feedback", "> Update bike", and "- Delete this bike". The "Giant Glory 1" section includes the description "Good and comfortable bike for downhill riding in mountains!", the price "40.00\$ per hour", and similar buttons. A blue "+ Add new bike" button is located at the bottom left of the screen. The background image remains the same scenic mountain view.

Category Page – Update (Admin View)

The screenshot shows a web browser window for 'Turbo Bike' with the URL localhost:8084/jsp_project/index.jsp?page=AdminEdit&what=cat&doAction=upd_cat&cat_id=2. The page title is 'Update category'. It features a background image of two mountain bikers on a grassy hillside. The form fields are as follows:

- Category CSS class:** body_mountainPage
(NB! You need to add this separately in CSS prior to adding here - else default css class can be used!)
- Category name:** Mountain Bike Rental
- Category short description:** I want to go fast on smooth paved roads.
- Category long description:** A 10 kilo meters day trip through tea plantations to the Labookellie tea factory is quite challenging but worth every bit of it. Ask at the Single Tree Hotel about mountain-bike rental. Fat-tire fans will find plenty of steep dirt trails radiating into the hills from the outskirts of town. Enjoy cycling in the lap of nature and take breathtaking photography of the nature at its best. Tourists from all around the world come here to enjoy mountain biking and local villages of Sri Lanka.
- Category image url:** (This field is empty)

Booking Page (Admin View)

The screenshot shows a web browser window for 'Turbo Bike' with the URL localhost:8084/jsp_project/index.jsp?page=booking. The page title is 'Booking page'. It features a background image of a mountain biker. The content area includes:

On this page You can see Your existing bookings
If no bookings found - To book a bike, please select bikes from under categories!

NB! Payment information you will receive by email after we have confirmed booking.

ID	From	To	User	Bike number	Bike name	Booking Sum	Paid sum	Paid date	Edit
1	2020-10-08	2020-10-17	Kely not@existing.lk	4	Giant XTC Jr 24 Lite	1080.00	1080.00	2020-08-20 00:16	- Delete

Booking Page (User View)

The screenshot shows a web browser window for the 'Turbo Bike' website. The title bar reads 'localhost:8084/jsp_project/index.jsp?page=booking'. The main content area has a header 'Booking page' with a background image of a cyclist on a mountain. A central message box says: 'On this page You can see Your existing bookings. If no bookings found - To book a bike, please select bikes from under categories! NB! Payment information you will receive by email after we have confirmed booking.' Below this is a table with the following columns: ID, From, To, User, Bike number, Bike name, Booking Sum, Paid sum, and Paid date. A single row is present with the text 'No bookings found'.

Feedback Page (Admin View)

The screenshot shows a web browser window for the 'Turbo Bike' website. The title bar reads 'localhost:8084/jsp_project/index.jsp?page=feedback'. The main content area has a header 'Feedback page' with a background image of a cyclist on a mountain. A central message box says: 'On this page You can see feedback given for bikes/service by other customers. If no feedback is found - Please add feedback for bikes from under categories!' Below this is a table with the following columns: Date, User, Bike, Feedback, and Edit. Two rows of data are shown:

Date	User	Bike	Feedback	Edit
2020-08-20 00:35	Kely	Merida Big 9 20	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.	- Delete
2020-08-20 00:33	Kely	Liv Alight 2	lorem ipsum lorem ipsum dolor sit amet	- Delete

Feedback Page (User View)

The screenshot shows a web browser window with the URL localhost:8084/jsp_project/index.jsp?page=feedback. The page title is "Turbo Bike". The main content area is titled "Feedback page" and contains the following text: "On this page You can see feedback given for bikes/service by other customers If no feedback is found - Please add feedback for bikes from under categories!". Below this is a table with two rows of feedback data:

Date	User	Bike	Feedback
2020-08-20 00:35	Kel****	Merida Big 9 20	Bike Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.
2020-08-20 00:33	Kel****	Liv Alight 2	lorem ipsum lorem ipsum dolor sit amet

Database

The screenshot shows the phpMyAdmin interface for the database `jsp_project`. The left sidebar lists databases and tables:

- Information_schema
- jsp_project (selected)
- bikes
- booking
- category
- feedback
- user
- lecturer
- mysql
- newschema
- nsbm
- nsbm2
- performance_schema
- phpmyadmin
- test
- testshopdb

The main panel shows the structure of the `category` table:

Table	Action	Rows	Type	Collation	Size	Overhead
bikes		13	InnoDB	utf8mb4_general_ci	128.0 Kib	-
booking		0	InnoDB	utf8mb4_general_ci	160.0 Kib	-
category		4	InnoDB	utf8mb4_general_ci	96.0 Kib	-
feedback		0	InnoDB	utf8mb4_general_ci	112.0 Kib	-
user		2	InnoDB	utf8mb4_general_ci	80.0 Kib	-
5 tables	Sum	19	InnoDB	utf8mb4_general_ci	576.0 Kib	0 B

Below the table structure, there are sections for "Create table" (with fields for Name and Number of columns), "Console" (with a query history), and various navigation links like Bookmarks, Options, History, and Clear.

Bike Table

The screenshot shows the phpMyAdmin interface for the 'bikes' table in the 'jsp_project' database. The table structure includes columns: bike_id, category_id, bike_name, bike_description, bike_image, price, time_unit, and added. The data grid displays three rows of bike information:

bike_id	category_id	bike_name	bike_description	bike_image	price	time_unit	added
1	1	Giant Cypress	Adult unisex comfort hybrid bicycle with 7 speeds...	/img/giantCypress.jpg	10.00	hour	2020-05-17 00:00:00
2	1	Live Flourish 4	Women's step-thru comfort hybrid bicycle with 7 sp...	/img/LivFlourish4.jpg	15.00	hour	2020-05-17 00:00:00
3	1	Electra Townie Original 3i	Adult comfort cruiser with flat-foot design, 3 spe...	/img/ElectraTownieOriginal3i.jpg	10.00	hour	2020-05-17 00:00:00

The SQL query used to fetch the data is: `SELECT * FROM `bikes``.

Booking Table

The screenshot shows the phpMyAdmin interface for the 'booking' table in the 'jsp_project' database. The table structure includes columns: booking_id, from_date, to_date, user_id, category_id, bike_id, paid, paid_date, booking_sum, and paid_sum. The data grid displays one row of booking information:

booking_id	from_date	to_date	user_id	category_id	bike_id	paid	paid_date	booking_sum	paid_sum
1	2020-10-08 00:00:00	2020-10-17 00:00:00	22	1	4	Yes	2020-08-20 00:16:43	1080.00	1080.00

The SQL query used to fetch the data is: `SELECT * FROM `booking``.

Feedback Table

The screenshot shows the phpMyAdmin interface for the 'feedback' table in the 'jsp_project' database. The table has columns: feedback_id, category_id, bike_id, user_id, feedback_title, feedback_text, and date_added. Two rows are displayed:

feedback_id	category_id	bike_id	user_id	feedback_title	feedback_text	date_added
1	3	11	22	lorem ipsum	lorem ipsum dolor sit amet	2020-08-20 00:33:06
2	2	8	22	Bike	Lorem ipsum dolor sit amet, consectetur adipiscing	2020-08-20 00:35:42

User Table

The screenshot shows the phpMyAdmin interface for the 'user' table in the 'jsp_project' database. The table has columns: id, name, email, password, added, and admin. One row is displayed:

	id	name	email	password	added	admin
	22	Kely	not@existing.lk	c93cc78b2076528346216b3b2f701e6	NULL	Yes

Conclusion

The user interface is very friendly and easiest reservation can do for customers. Customers can watch details about that anywhere. So, bike rental system website idea people can get more easily information.

Workload Matrix

Name	Ply: Student Id	Task
Kely Weerasooriya	10674044	Website & Database