

❖ INTRODUCTION.

- Yamaha showroom websites are online platforms that showcase Yamaha's products, service, and brand story. These websites aim to provide an immersive experience for customers, allowing them to explore Yamaha's history, products, and dealer networks. They often feature such as product comparisons, dealer locators, and online shopping. Some examples of Yamaha showroom websites include the Yamaha corporation website, Yamaha motor Co., Ltd. These websites are designed to engage customers, provide product information, and promote Yamaha's brand.
- Yamaha made its initial foray into in 1985. Subsequently, it entered into a 50:50 joint venture with the Escorts group in 1996. However, in August 2001, Yamaha acquired its remaining stake as well, bringing the Indian operations under its complete control as a 100% subsidiary of Yamaha Motor Co., Ltd, japan.
- Indian Yamaha motor operates from its state-of-the-art-manufacturing units of Faridabad in Haryana and Surajpur in Uttar Pradesh and produces motorcycles both for domestic and export markets. With a strong workforce of 2000 employees, Indian Yamaha Motor is highly customer-driven and has a countrywide network of over 400 dealers.
- The company pioneered the volume bike segment with the launch of its 100cc 2-stroke motorcycle RX 100. Since then, it has introduced an entire range of 2-stroke and 4-stroke bikes in India. Presently, its product portfolio includes Crux(100cc), Alba (106cc) and Gladiator (125cc).
- We will establish YAMAHA as the “executive & trusted brands” of customer by “creating Kando” (touching their hearts)- the first time and every time with world class products & services delivered by people having “passion for customer”.
- Be the Exclusive & Trusted Brand renowned for marketing and manufacturing of YAMAHA products, focusing on serving our customer where we can build long term relationships by raising their lifestyle through performance excellence, proactive design & innovative technology. Our

innovative solutions will always exceed the changing needs of our customer and provide value added vehicles.

- Build the Winning Term with capabilities for success, thriving in a climate for action and delivering results. Our employees are the we intend to develop them to achieve international level of professionalism with progressive ethically and socially in a responsible manner with concerns for the environment.
- Grow through continuously innovating our business processes for creating value and knowledge across our customers thereby earning the loyalty of our partners & increasing our stakeholder value.

Project Title	YAMAHA SHOWROOM
Front-End Tool	PHP
Back-End Tool	SQL Server 2010
Project Development By	SHAIKH MOH ARSHIL MOH SAYEED
Project Submitted To	Anand Mercantile College of Science, Management & Computer Technology
Project Guide	Mr. Amir Hasan Kadri

❖ Scope of work

1.1.1 1. Project Overview

- Objective: To design, develop, and launch a user-friendly, modern website for a Yamaha showroom. The website should showcase Yamaha products, services, and showroom details while offering customers an intuitive online experience to explore and inquire about motorcycles, accessories, and services.

1.1.2 2. Core Features

- Homepage:
 - Attractive banner featuring latest Yamaha models and offers.
 - Introduction to the showroom.
 - Quick links to key sections (Products, Services, Contact, Offers, etc.).
- Product Listings:
 - Categories: Motorcycles, Scooters, Accessories.
 - Product detail pages with specifications, images, pricing, features, and available colors.
 - Option to compare models.
- Booking/Inquiry Form:
 - Customers can book test rides or submit inquiries about specific models.
- Service Section:
 - Information on maintenance and repair services.
 - Online service appointment scheduling.
- Promotions/Offers:
 - Highlight special deals, financing offers, or seasonal discounts.
- Showroom Locator:
 - Interactive map with the location of the showroom and directions.

- Contact Us:
 - Contact details with phone numbers, email, showroom timings.
 - Integrated Google Maps for directions.

3. Design Requirements

- Visual Identity: Align the design with Yamaha's brand guidelines.
- User-Friendly Navigation: Clear and easy navigation to ensure a seamless user journey.
- Mobile Responsiveness: The website must be fully responsive and functional across mobile, tablet, and desktop devices.
- Fast Loading: Optimized for performance with fast loading speeds across all devices.
- SEO Optimized: Implement best SEO practices to ensure high visibility in search engines.

4. Technical Requirements

- CMS: Develop on a user-friendly CMS (e.g., WordPress) to allow easy content updates.
- E-Commerce Integration (Optional): Allow customers to purchase accessories or Yamaha gear online.
- Analytics: Integration with Google Analytics to track visitor behavior and performance metrics.
- Security: Implement SSL and other security measures to protect user data.
- CRM Integration (Optional): Integrate with the showroom's CRM for managing inquiries and customer details.

5. Content Creation

- Copywriting: Professional content for all pages, including product descriptions, showroom information, and service details.
- Photography & Media: High-quality images and videos for products and showroom tours.
- Blog/Articles (Optional): Feature Yamaha-related content like new model reviews, rider tips, or showroom news.

6. Testing & Quality Assurance

- Cross-browser Testing: Ensure the website works across major browsers (Chrome, Firefox, Safari, Edge).

- Mobile Testing: Check responsiveness on different devices (smartphones, tablets).
- Functionality Testing: Test all forms, navigation, and interactive elements.

7. Launch & Post-launch Support

- Go-live Support: Ensure smooth website launch and monitor performance in the first few weeks.
- Training: Provide training for showroom staff on how to update and manage the website.
- Maintenance: Ongoing support for updates, bug fixes, and potential improvements post-launch.

8. Timeline

- Phase 1: Discovery & Planning – 1 week
- Phase 2: Design & Approval – 2 weeks
- Phase 3: Development – 3 weeks
- Phase 4: Testing & QA – 1 week
- Phase 5: Launch & Post-launch support – 1 week

9. Deliverable

- Fully functional Yamaha showroom website.
- Documentation for CMS management.
- Access to analytics and reports.
- 6-month post-launch technical support.

10. Cost Estimate

- Design and development costs.
- Optional features like e-commerce or CRM integration.
- Ongoing maintenance and support packages.

❖ An Existing System

- An existing system for a Yamaha showroom would typically be a fully functional dealership management solution. This system would allow Yamaha dealers to manage day-to-day operations including product inventory, customer data, sales processes, and service requests. Below is an outline of what such a system might include:

➤ Key Features of an Existing Yamaha Showroom System:

1. Inventory Management:

- Keep track of Yamaha vehicles (motorcycles, scooters, etc.) in stock.
- Monitor spare parts availability.
- Automatically update stock levels after each sale.
- Notifications for low inventory.

2. Sales Management:

- Manage and record sales transactions.
- Provide quotations for customers based on their vehicle preferences.
- Payment processing integration (cash, credit, and digital payments).
- Generate invoices and sales reports.

3. Customer Relationship Management (CRM):

- Maintain a customer database with contact information, purchase history, and preferences.
- Follow-up with customers for service reminders, new model updates, and promotions.
- Test ride management: schedule and track test rides for customers.

4. Service Management:

- Track vehicle service requests and assign technicians.
- Maintain a service history for each vehicle.
- Allow customers to book service appointments online.
- Inventory of spare parts required for servicing.

5. Product Showcase:

- Show detailed information for Yamaha products available in the showroom, including images, specifications, pricing, and financing options.
- Allow potential customers to explore vehicles, accessories, and parts online.

6. Finance & Insurance Management:

- Integration with financial institutions for vehicle financing options.
- Provide insurance options at the time of purchase.
- Track finance agreements and insurance documents.

7. Reports & Analytics:

- Sales performance tracking (weekly, monthly, yearly reports).
- Customer insights based on purchase and service history.
- Inventory reports to track high-demand items and slow-moving stock.

8. Website Integration:

- Customers can browse available models and make inquiries directly through the website.
- Book test rides and service appointments online.
- Integration with social media for marketing campaigns and promotions.

9. Payment and Financing:

- Integration with payment gateways to accept online and offline payments.
- Facilitate loans or EMI payments for customers.

10. Security and User Management:

- Different access levels for showroom staff (sales, service, management, admin).
- Data encryption to protect sensitive customer information.
- Backup and recovery options to prevent data loss.

❖ Need of Proposed System

1. User Experience (UX)

- Easy Navigation: Intuitive navigation to ensure users can easily find bikes, accessories, and services.
- Product Details: Detailed information on Yamaha bikes, including specifications, pricing, and availability.
- Search and Filter Options: Users should be able to search and filter based on model, type, engine size, etc.
- Responsive Design: Website should be optimized for mobile devices as many customers will access it on smartphones.

2. Product Listings and Management

- Dynamic Catalog: Real-time updates for products, new arrivals, and discontinued models.
- High-Quality Images and Videos: Each bike should have a gallery of images, videos, and 360-degree views.
- Comparison Feature: Allow users to compare different models based on their specifications.

3. Booking and Inquiry System

- Test Ride Booking: Option to book test rides online.
- Product Inquiry Form: Easy-to-use inquiry forms for customers to get more information or schedule visits.
- Service Booking: Enable users to book servicing appointments online.

4. Customer Support and Contact

- Live Chat or Chabot: Provide real-time support for any inquiries.
- Contact Information: Clear and accessible contact details for sales and service teams, including phone numbers, email addresses, and showroom locations.
- FAQ Section: Common questions about bikes, financing, and servicing.

5. E-Commerce (Optional)

- Online Sales: Option for users to purchase bikes, accessories, and parts directly from the website.

- **Financing Options:** Clear presentation of financing plans, with an online application for loans.
- **Secure Payment Gateway:** Safe and secure options for users to make payments online for bikes, accessories, or services.

6. Showroom and Service Locator

- **Map Integration:** Showroom and service center locator with maps and directions.
- **Dealer Network:** Showcase authorized Yamaha dealers based on the user's location.

7. SEO and Marketing Integration

- **SEO Optimization:** The website should be optimized for search engines, ensuring Yamaha models and services rank highly.
- **Social Media Integration:** Links to Yamaha's social media platforms for updates and promotions.
- **Blog and News Section:** Keep users updated with the latest Yamaha news, events, and promotions.

8. Admin Dashboard and Content Management

- **Easy Product Management:** A dashboard for showroom staff to update inventory, pricing, and promotions.
- **Order and Inquiry Management:** An interface for handling customer orders, test ride requests, and service appointments.
- **Analytics Integration:** Integration with Google Analytics or similar platforms to track visitor activity and behavior.

❖ Feasibility Study

1. Objective Definition

- Goal: Establish an online presence for Yamaha showroom to increase visibility, attract customers, and provide detailed product information.
- Target Audience: Prospective buyers of vehicles, spare parts, and related accessories.

2. Market Research

- Industry Trends: Analyze the automotive industry and consumer behaviors regarding online vehicle research and purchasing. Focus on how customers interact with automotive brands online.
- Competitor Analysis: Review websites of competing showrooms or dealerships to assess their features, services, and user experiences.
- Consumer Needs: Identify what information customers seek (e.g., vehicle details, prices, showroom locations, contact details, test drive bookings).

3. Technical Feasibility

- Website Platform: Evaluate different website development platforms (e.g., WordPress, Shopify, custom-built) based on ease of use, scalability, and budget.
- Features:
 - Product Listings: Interactive vehicle catalogs with images, specifications, and pricing.
 - Search & Filters: Allow users to filter vehicles by model, price, color, etc.
 - Appointment Booking: Feature for booking test drives or showroom visits.
 - Customer Support: Integrate chat support or a Chatbot for instant customer queries.
 - Mobile Optimization: Ensure the site is mobile-friendly.
 - SEO & Digital Marketing: Plan for SEO features to ensure visibility in search engines and options for digital advertising.
- Integration: Need for integrating with inventory management systems, payment gateways, and customer relationship management (CRM) software.

❖ System Features

1. Product Catalog

- Motorcycles, Scooters, and Other Vehicles: Full product range with images, descriptions, specifications (engine power, mileage, etc.), and pricing details.
- Filters: Search and filter options based on model, price range, engine type, color, etc.
- Product Comparison: Compare multiple models' features side by side.

2. Online Booking/Enquiry

- Test Ride Booking: Online form to schedule a test ride.
- Purchase/Booking Inquiry: Request a quote or book a vehicle directly from the website.
- Online Payment Options: Pay booking fees or down payments securely.

3. Dealership Locator

- Find Showrooms: Integrated map and search function to locate the nearest Yamaha dealerships or service centers.
- Contact Information: Address, phone number, and email for customer inquiries.

4. Customer Account

- Login and Registration: Create and manage a customer account for easy tracking of purchases, service bookings, and test rides.
- Order Tracking: View the status of booked vehicles or parts orders.

5. Contact and Support

- Chatbot or Live Chat: Automated or live customer support for instant responses to queries.

❖ Hardware and Software

➤ Hardware Requirement of the system:

This phase of the software development process deals with a brief study of different hardware use in the computerize system. There is a list of hardware materials used during the making and also during the use of the proposed system. As the new system to be made in to a computerized functional system, requirement of a computer is must. All the hardware needed here are generally the basic configuration of a typical office computer. A list of the hardware requirements used in the system given bellow.

➤ Minimum Configuration:

Intel i3 2 nd Generation Processor

4 GB RAM and Higher

500 GB HDD and Higher

Mouse

Keyboard

Monitor

➤ Software Requirement of the System:

Along with the hardware, use in the requires software to make the system as well as to run a system with the computer hardware. Collection of different types of hardware into a specific type can from a computer but it cannot execute different process on its own.

➤ Software used in design of the system:

Front End : PHP

Back End : My SQL

➤ Software Specification:

i. Front End

- PHP is a programming language that can do all sorts of things: evaluate form data sent from a browser, build custom web content to serve the browser, talk to a database, and even send and receive cookies (little packets of data that your browser uses to remember things, like if you're logged in to Codecademy).
- Check out the code in the editor. Looks familiar, doesn't it? That's because a lot of it is regular old HTML! The PHP code is written in the <?php and ?>.

■ HTML:

- HTML elements are represented by tags. HTML is the standard markup language for creating Web pages.
- HTML stands for Hyper Text Markup Language.
- HTML describes the structure of Web pages using markup.
- HTML elements are the building blocks of HTML pages.
- HTML elements are represented by tags.
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on.
- Browsers do not display the HTML tags, but use them to render the content of the page.

■ CSS:

- CSS stands for Cascading Style Sheets/
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media/
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files.

ii. BACK END

- MySQL:
 - A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds
 - Other kinds of data stores can be used, such as files on the file system or large hash tables in memory but data fetching and writing would not be so fast and easy with those types of systems.
 - So nowadays, we use relational database management systems (RDBMS) to store and manage huge volume of data. This is called relational database because all the data is stored into different tables and relations are established using primary keys or other keys known as foreign keys.

❖ Data Flow Diagram

I used data flow diagram (DFD), to documents the system. DFDs document a system in a hierarchical manner and the diagram in figure represents the highest level. The diagram is called a context diagram because it represents the system in the context of its environment.

A DFD is pictorial representation of the path which data takes from its initial interaction with the system until it computers any interaction. The diagram will description the logical data flows without detailing movement of any physical items. The DFDs also give insight into the data that is used in the system one of the tools of structural analysis is the data flow diagram. A DFD is a graphic documentation of a system. DFD serves two purposes.

- 1) Provide graphical tool. This can be used by the analyst to explain his understanding of the system to the user.
- 2) Can be really converted into a structure chart which is used in design.

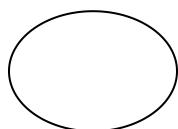
DFD Elements:-

A DFD need to be simple because a user has to go through it, understand it, and suggest correction or changes. A data flow diagram uses only four Elements.

- 1) Process
- 2) External Entity
- 3) Data Flow
- 4) Data Store

Symbol used in DFD:-

- 1) **Process :-** Here flow of data is transformed. A process represents some account of work using behavior of data. A process does transformation of data from one from to another.

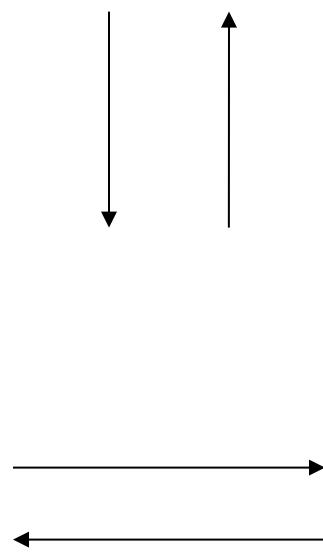


- A circle represents a process.

- 2) **External Entity** :- A source or destination of data which is external to the system. As the name suggests it lies outside the context of the outside the context of the system. It is represented by square.



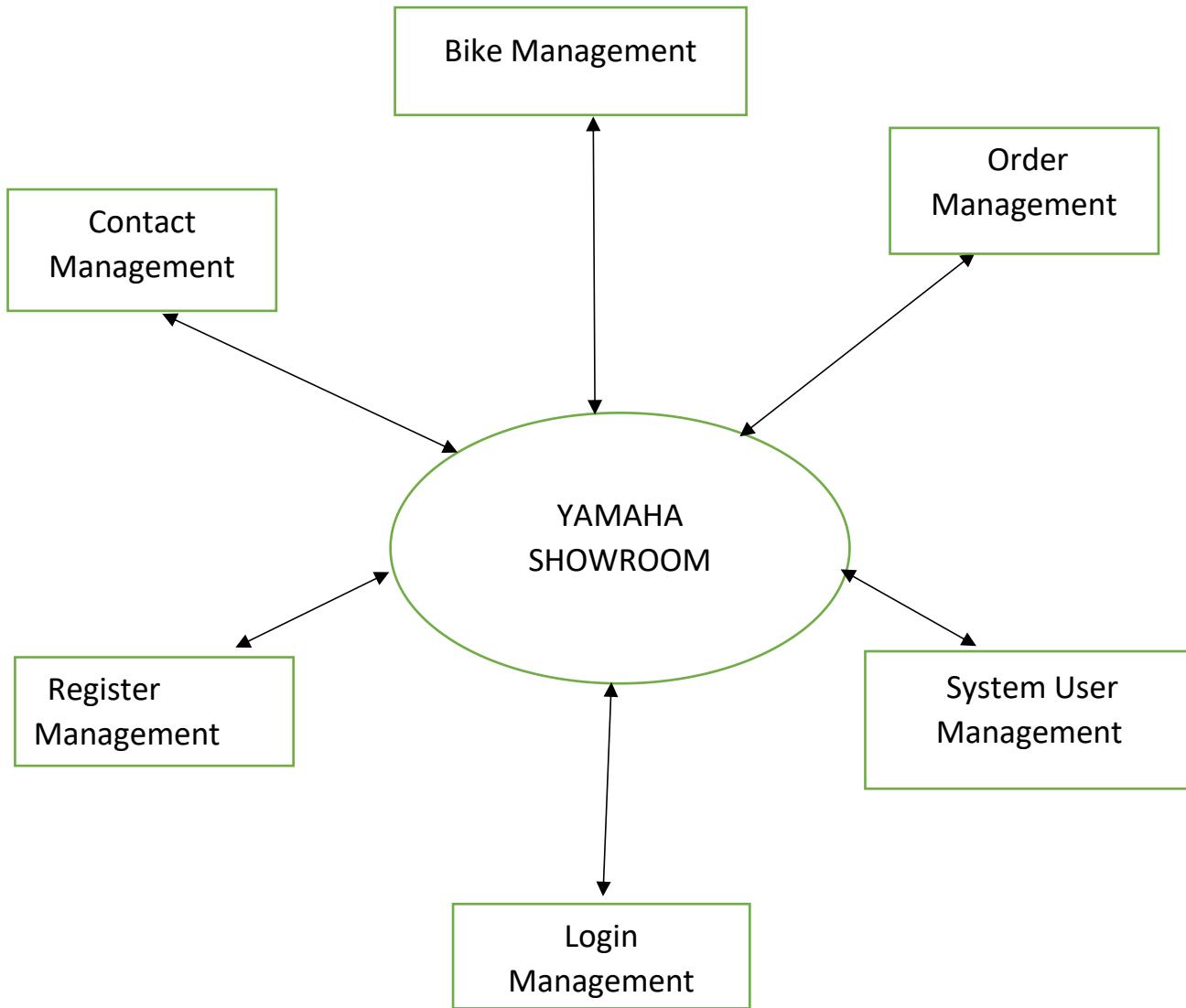
- 3) **Data Flow** :- It is packet of data. It may be in the form of document, letter etc. A data flow represents the path as it flows through the system. As arrow represented it. The arrowed points in the direction in which the data moves. The name of the data flow is written along the line.



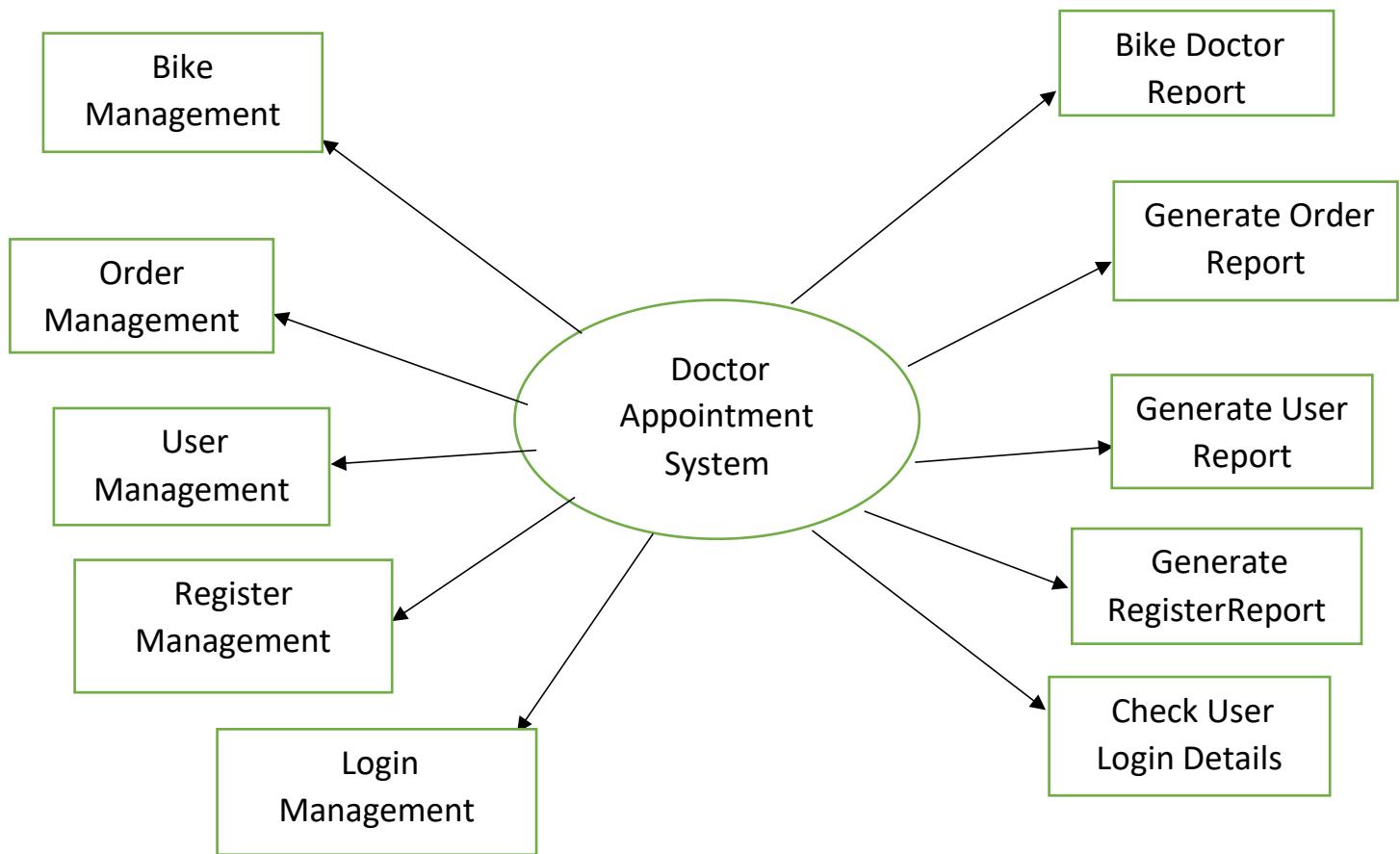
- 4) Data Store :- Any store data but with no references to the physical method to storing. It there is a logical requirement for the data to be stored. It is help in a data store. It is represented by open ended rectangle. A number and a name identify each data store like a process.



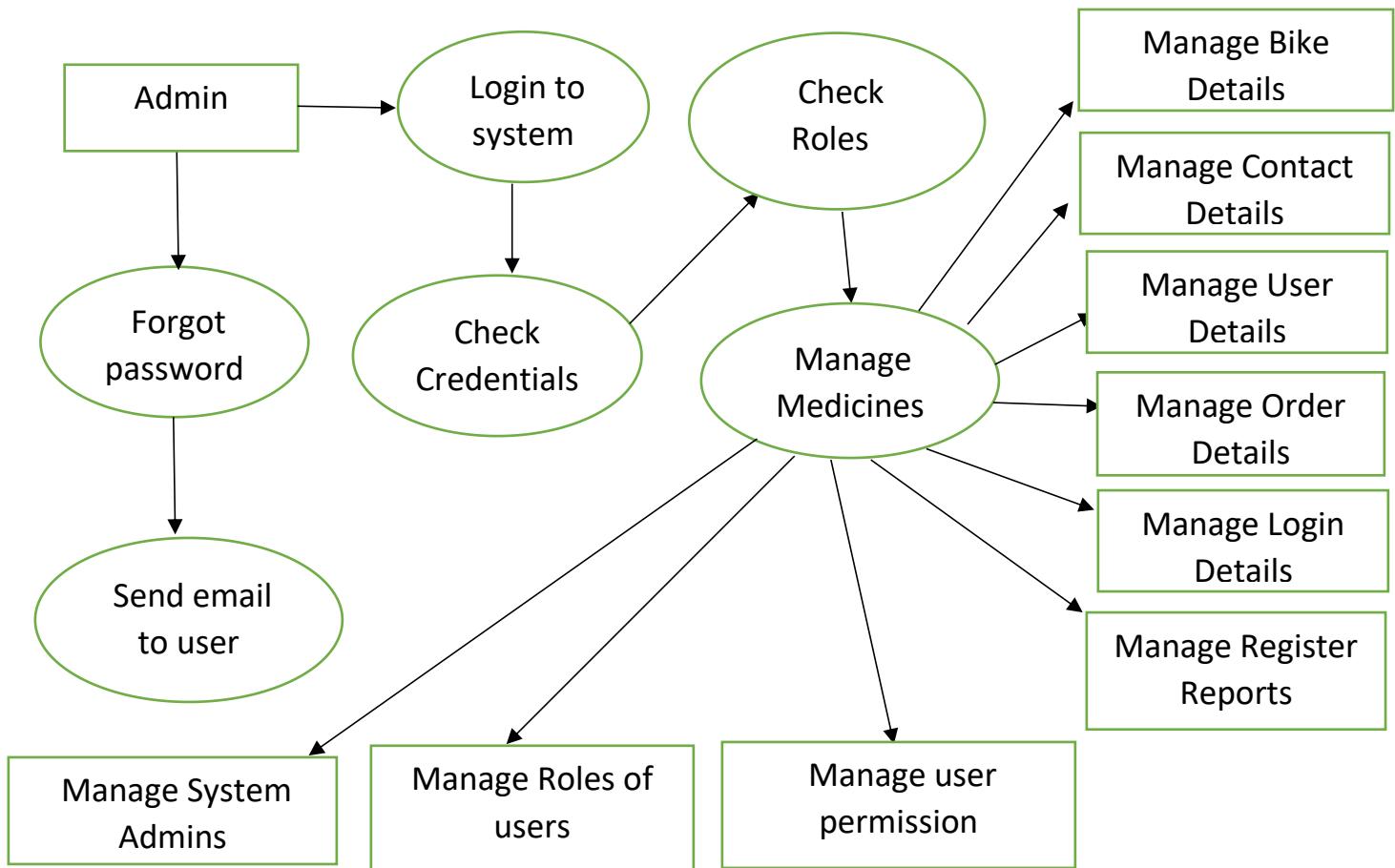
- Zero Level DFD



- First Level DFD



- **Second Level DFD**



❖ Database Layout / File Layout

➤ Table Format :-

- Users:(Regisster and Login)

Field Name	Data Type	Constraint	Description
Id	Int(11)	Not Null	Id
User Name	varchar(100)	Not Null	Username
Email	varchar(100)	Not Null	Email
Password	varchar(255)	Not Null	Password
Creates_at	timestamp	Not Null	Store Date and Time

- Account:(Forgotpassword detail)

Field Name	Data Type	Constraint	Description
Id	Int(11)	Not Null	Id
Name	varchar(255)	Not Null	Name
Password	varchar(255)	Not Null	Store hashed password
Reset_token	decimal(10,2)	Default Null	Reset password request
Reset_token_expiry	datetime	Default Null	Store time exiration

- **Products:(image insert,delete,edit)**

Field Name	Data Type	Constraint	Description
Id	Int(11)	Not Null	Id
Name	varchar(255)	Not Null	Name
Image	varchar(255)	Not Null	Create Image
Price	decimal(10,2)	Not Null	Pricing

- **Orders:(User buying database)**

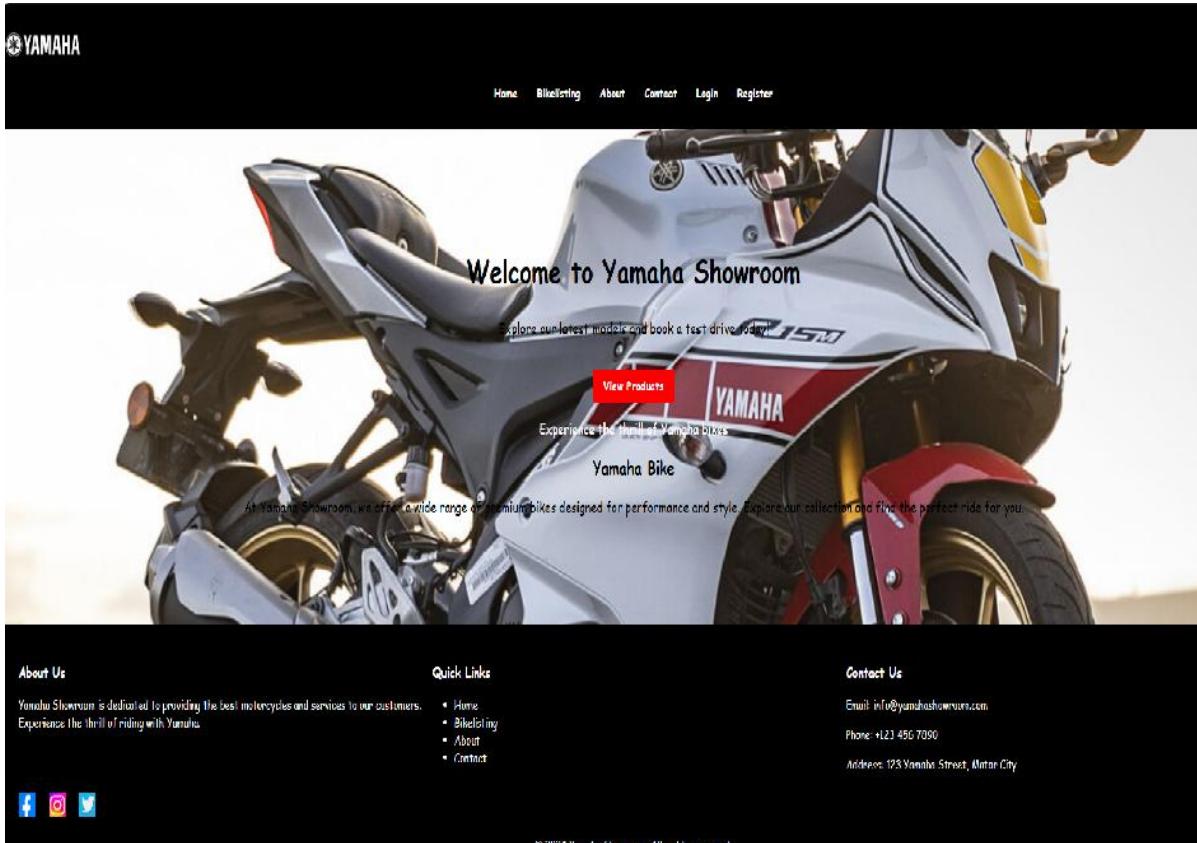
Field Name	Data Type	Constraint	Description
Id	Int(11)	Not Null	Id
Product_id	Int(11)	Not Null	Product Id Number
Customer_name	varchar(100)	Not Null	Customer name
Customer_email	varchar(100)	Not Null	Customer Email
Buying	Int(11)	Not Null	Buying Products
Order_date	Timestamp	Not Null	Date and time

- **Contacts:(Contact detail of Customer)**

Field Name	Data Type	Constraint	Description
Id	Int(11)	Not Null	Id
Name	varchar(100)	Not Null	Name
Email	varchar(100)	Not Null	Email
Message	text	Not Null	message
Submission	timestamp	Default Null	Store Date and Time

❖ Design Of Input Screens

- Home page:



- Register page:

The image shows a close-up of a Yamaha motorcycle, specifically a white and red model, set against a bright, possibly sunset or sunrise, background. Overlaid on the center of the image is a registration form titled "Register". The form contains four input fields: "Name:", "Email:", "Password:", and "Confirm Password:". Below these fields is a red "Register" button. At the bottom of the form, there is a link "Already have an account? [Login here.](#)".

About Us
Yamaha Showroom is dedicated to providing the best motorcycles and services to our customers. Experience the thrill of riding with Yamaha.

Quick Links

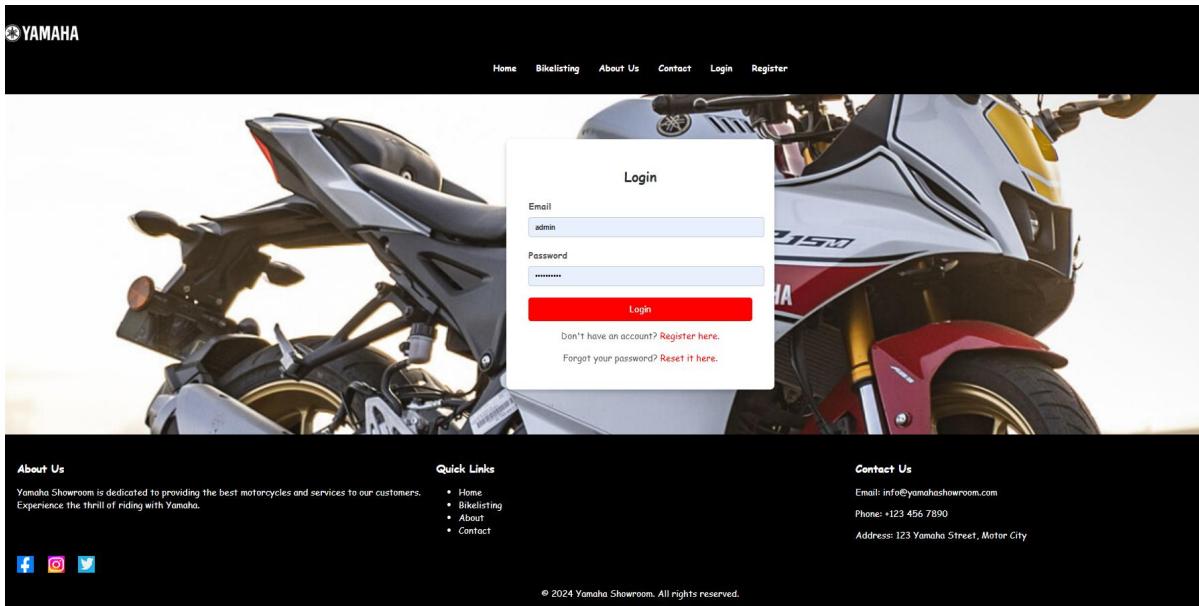
- Home
- Bikelistings
- About
- Contact

Contact Us

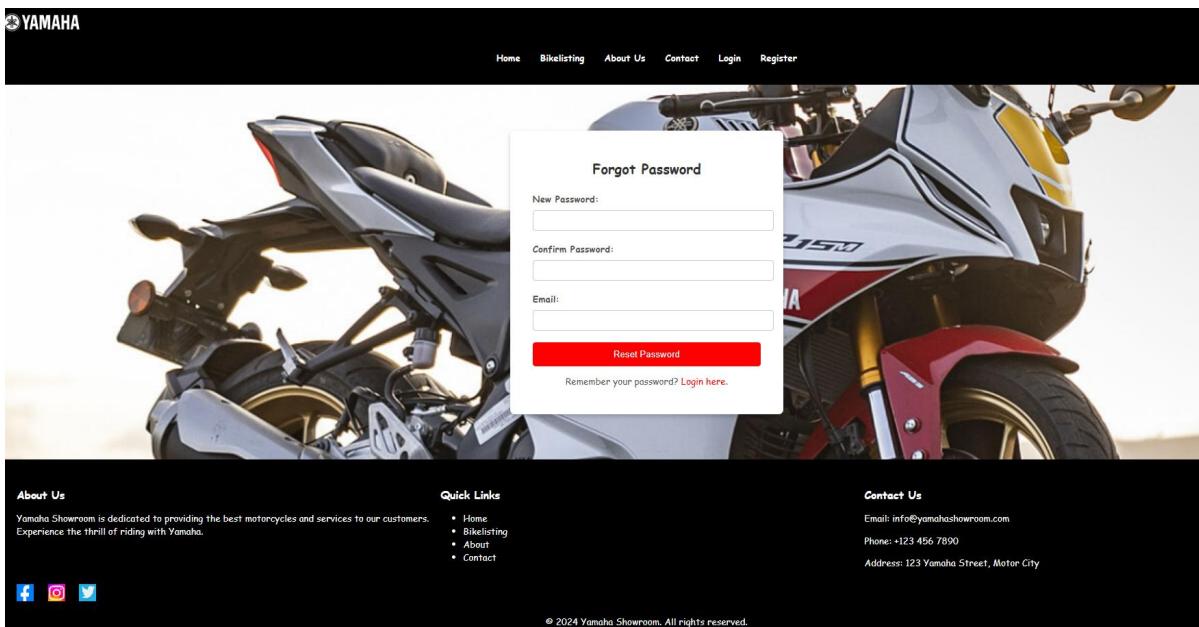
Email: info@yamashowroom.com
Phone: +123 456 7890
Address: 123 Yamaha Street, Motor City

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- Login page:



- Forgot page:



● Bikelistings (products) page:

The screenshot shows a grid of Yamaha motorcycle models with their prices and a "Buy Now" button. The models and their prices are:

- Yamaha MT-15: \$2,000.00
- Yamaha R15: \$2,500.00
- Yamaha FZ: \$1,800.00
- Yamaha YZF: \$1,800.00
- Yamaha RD350: \$2,500.00
- Yamaha RX100: \$1,800.00
- Yamaha MT-09: \$1,030.00
- Yamaha R25: \$2,800.00
- Yamaha RXS155: \$2,500.00
- Yamaha R15S: \$1,800.00

● Contact page:

The contact page features a large image of a Yamaha motorcycle. The contact form includes fields for Name, Email, and Message, along with a Submit button.

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Quick Links

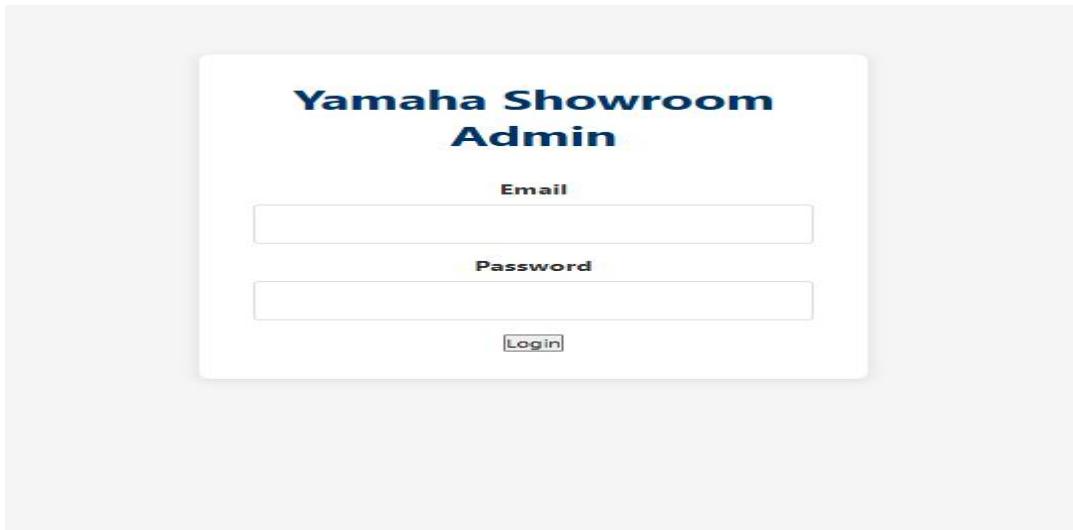
- Home
- Bikelistings
- About
- Contact

Contact Us

Email: info@yamahashowroom.com
Phone: +123 456 7890
Address: 123 Yamaha Street, Motor City

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- Admin login page:

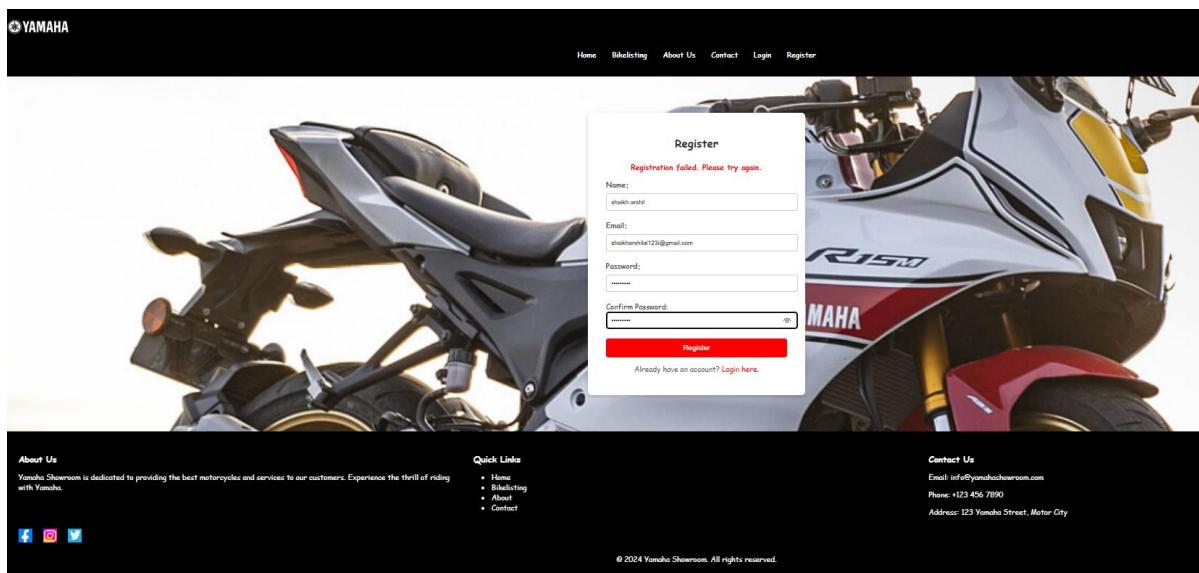


- Admin Dashboard page:

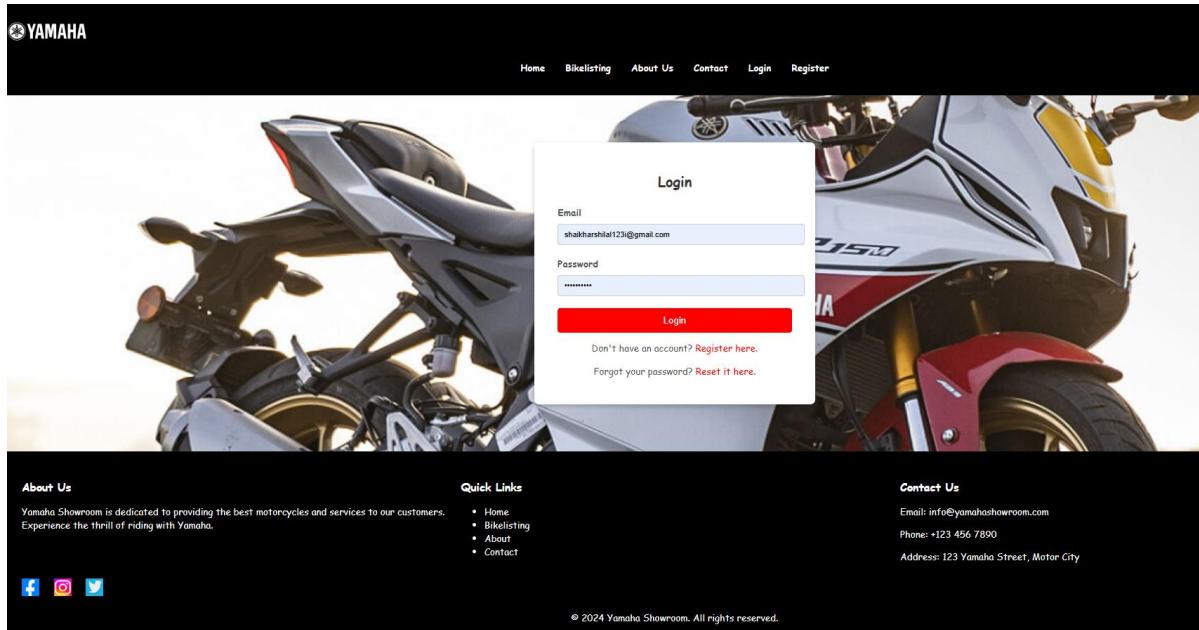
A screenshot of the Yamaha Showroom Admin dashboard. At the top left is a sidebar with "Dashboard", "Products", "Orders", "Contacts", and "Users". At the top right are "Welcome, shahin arsh ali", "Logout", and the date "Friday, March 28, 2025". The main area is divided into sections: "Dashboard Overview" with four summary cards (Total Products: 10, Total Orders: 6, Total Contacts: 5, Total Users: 4), "Recent Orders" (a table showing 5 recent orders with columns: ORDER ID, CUSTOMER, PRODUCT, DATE, STATUS), and "Popular Products" (a grid of motorcycle images with names and prices: Yamaha MT-15 \$2,000.00, Yamaha FZ \$1,800.00, Yamaha MT-09 \$1,600.00, and Yamaha R15).

❖ Design Of Output Screens & Reports

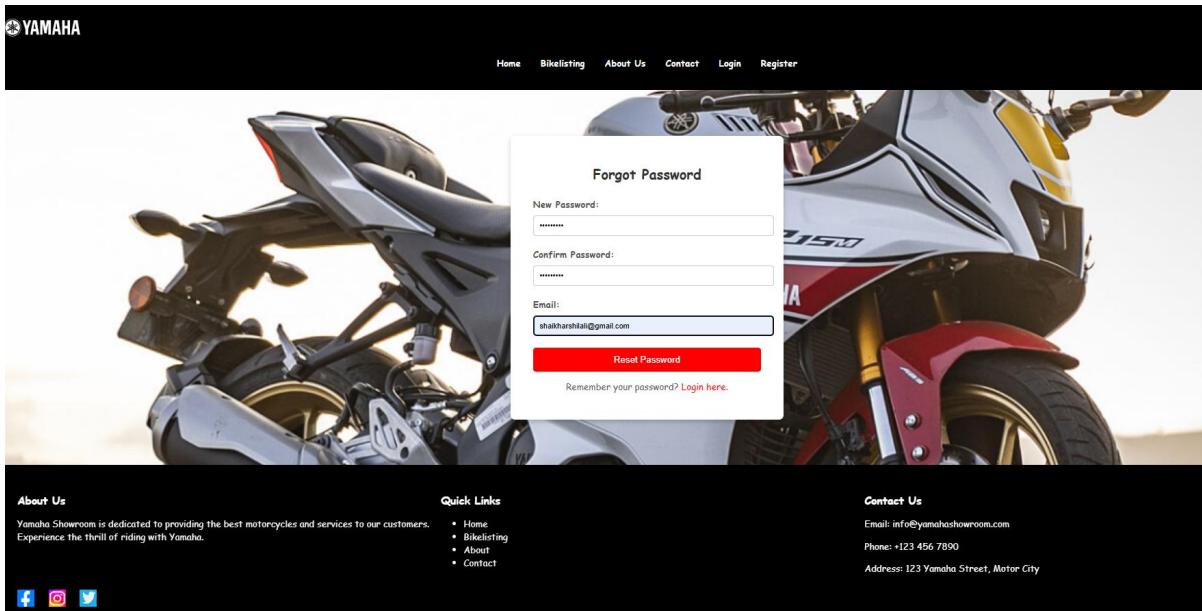
- Register page :



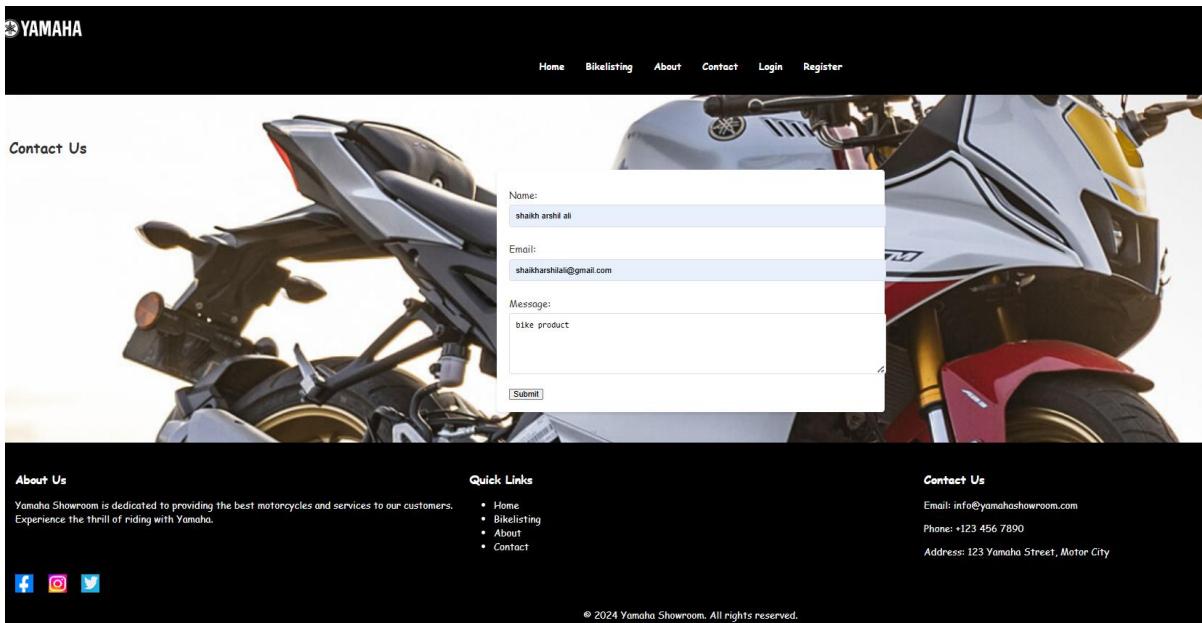
- Login page:



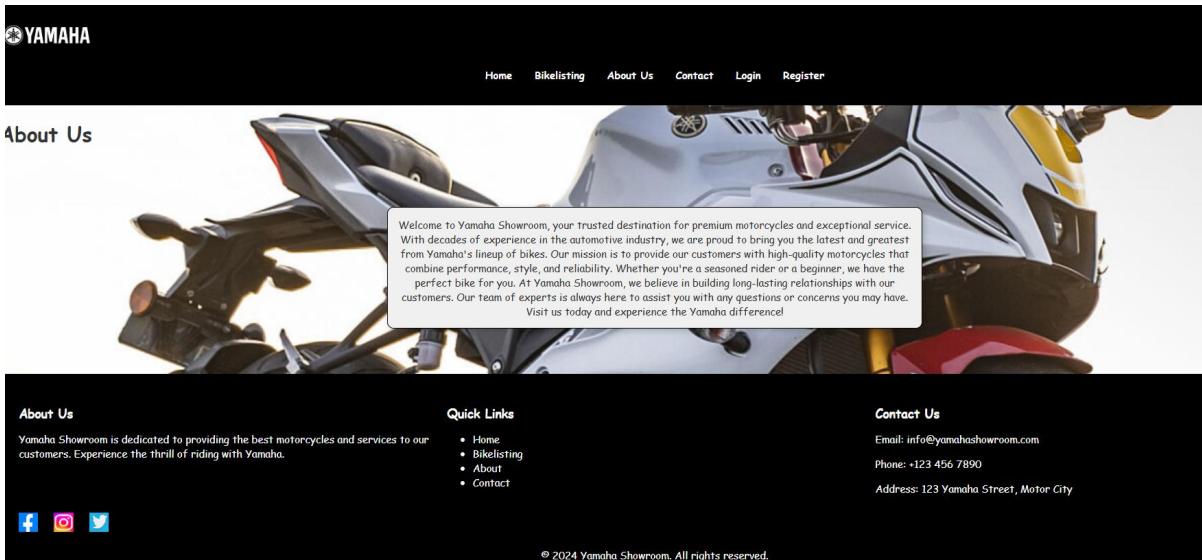
- Forgot Password page:



- Contacts page:



- About page:



The screenshot shows the 'About Us' page of the Yamaha Showroom website. At the top, there's a navigation bar with the Yamaha logo and links for Home, Bikelistings, About Us, Contact, Login, and Register. Below the navigation is a large image of a silver Yamaha motorcycle. A white callout box contains the following text:
Welcome to Yamaha Showroom, your trusted destination for premium motorcycles and exceptional service. With decades of experience in the automotive industry, we are proud to bring you the latest and greatest from Yamaha's lineup of bikes. Our mission is to provide our customers with high-quality motorcycles that combine performance, style, and reliability. Whether you're a seasoned rider or a beginner, we have the perfect bike for you. At Yamaha Showroom, we believe in building long-lasting relationships with our customers. Our team of experts is always here to assist you with any questions or concerns you may have. Visit us today and experience the Yamaha difference!

About Us
Yamaha Showroom is dedicated to providing the best motorcycles and services to our customers. Experience the thrill of riding with Yamaha.

Quick Links

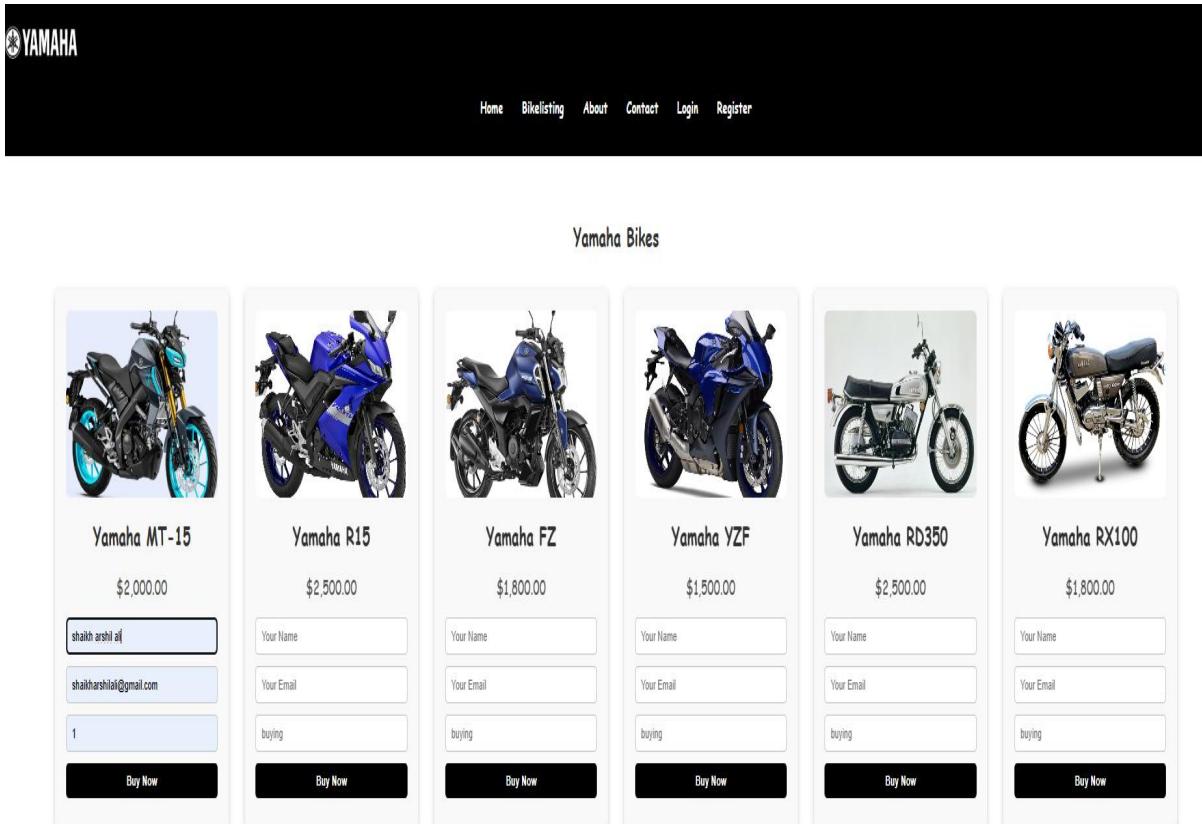
- Home
- Bikelistings
- About
- Contact

Contact Us

Email: info@yamashowroom.com
Phone: +123 456 7890
Address: 123 Yamaha Street, Motor City

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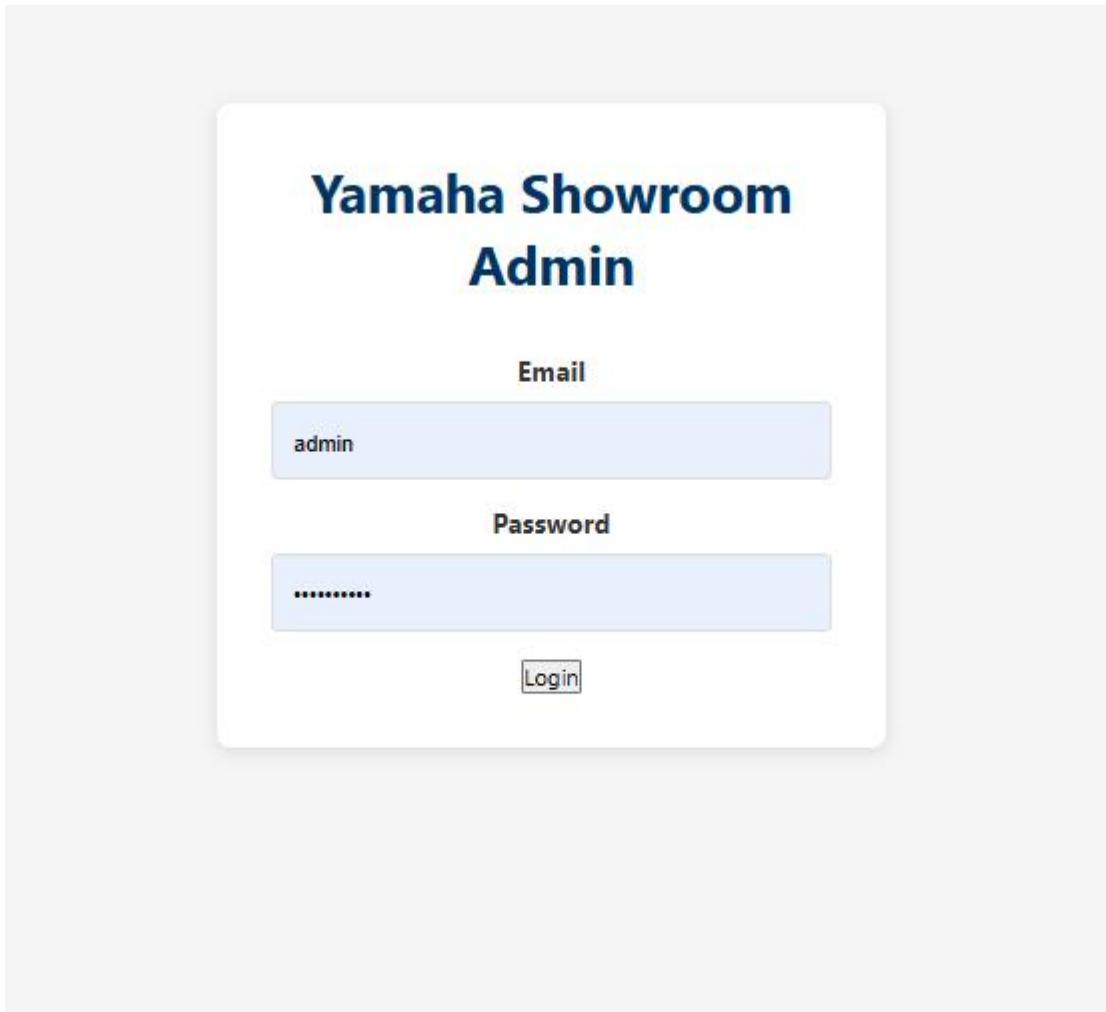
- Bikelistings (products and Orders) page:



The screenshot shows the 'Bikelistings' page of the Yamaha Showroom website. At the top, there's a navigation bar with the Yamaha logo and links for Home, Bikelistings, About, Contact, Login, and Register. Below the navigation is a section titled 'Yamaha Bikes' featuring six motorcycle models arranged in two rows of three:

- Yamaha MT-15**: \$2,000.00. Form fields: Name (shaih arshi a), Email (shaikhshilal@gmail.com), Quantity (1). Buttons: Buy Now.
- Yamaha R15**: \$2,500.00. Form fields: Name (Your Name), Email (Your Email). Buttons: Buy Now.
- Yamaha FZ**: \$1,800.00. Form fields: Name (Your Name), Email (Your Email). Buttons: Buy Now.
- Yamaha YZF**: \$1,500.00. Form fields: Name (buying), Email (buying). Buttons: Buy Now.
- Yamaha RD350**: \$2,500.00. Form fields: Name (Your Name), Email (Your Email). Buttons: Buy Now.
- Yamaha RX100**: \$1,800.00. Form fields: Name (Your Name), Email (Your Email). Buttons: Buy Now.

- Admin login page:



- Admin Dashboard page:

Yamaha Showroom Admin

Welcome, shaikh arshil ali [Logout](#)

[Dashboard](#)

[Products](#)

[Orders](#)

[Contacts](#)

[Users](#)

Dashboard Overview

Saturday, March 29, 2025

Total Products **10**

[View Products](#)

Total Orders **7**

[View Orders](#)

Total Contacts **5**

[View Messages](#)

Total Users **5**

[View Users](#)

Recent Orders

[View All](#)

ORDER ID	CUSTOMER	PRODUCT	DATE	STATUS
#12	shaikh arshil ali	Yamaha MT-15	Mar 28, 2025	Completed
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#10	shaikh arshil ali	Yamaha MT-15	Mar 26, 2025	Completed
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❖ Testing Procedures & Implementaion & Phases

➤ IMPLEMENTATION :-

✓ Implementations is the process of having systems personnel checkout and put new equipment into use, train users, install the new application, and construct any files of data needed to use it. Depending on the size of the organization that will be involved in using the application and the risk associated with its use, systems developers may choose to pilot or to test the operations in only one area of the form, say in one department or with only one or two persons. Sometimes they will run the old and new systems together to compare the result. Each implementation strategy has its merits, depending on the situation in which it is considered regardless of the implementation of the strategy used, developer strive to ensure that the system initial use is trouble-free. Since every system and its environment undergo continual change, the information systems should keep pace. In this sense, implementation is an ongoing process.

➤ TESTING :-

✓ Testing performs a very critical role for quality assurance and for ensuring the reliability of software. During testing the program to be tested is executed

with a set of test cases and the output of the program for the test cases is evaluated to determine if the program is performing as expected. For a project incremental testing is generally performed, in which components and subsystems of the system are tested separately before integrating them to form the system for system testing. This form the system for system testing. This form of testing, though necessary to ensure the quality for a large system, introduces new issues of how to select components for testing and how to combine them to form subsystems and systems.

➤ LEVELS OF TESTING

- ✓ Different levels of testing are used in the testing process; each level of testing aims to test different aspects of the system.

- ✓ The basic levels are :-
 - Unit Testing
 - Integration Testing
 - System Testing
 - Acceptance Testing

- ✓ These levels of testing are performed when the system is being built from the components that have been coded. There is another level of testing, called Regression Testing that is performed when some changes are made to an existing system.
- ✓ The first level of testing is called unit testing. In this different modules are tested against the specifications produced during design for the modules. Unit testing is essential for verification of code produced during the coding phase, and hence the goal is to test the internal logic of the modules.
- ✓ The next levels are called Integration Testing. In this many unit-tested modules are combined into subsystem, which are then tested. The goal here is to see if the modules can be integrated properly. This testing activity can be considered testing the design.
- ✓ The next levels are System Testing and Acceptance Testing. Here the entire software system is tested. The goal is to see if the software meets its requirements. The reference document for this process is requirement document. Acceptance Testing is sometimes performed with realistic data of the client to demonstrate that the software is

working satisfactorily. Testing here focuses on the external behavior of the system.

For Regression Testing, some test cases that have been executed on the old system are maintained, along with the output produced by the old system. These test cases are executed again on the modified system and its output compared with the earlier output to make sure that the system is working as before on this test cases. This frequently is a major task when modifications are to be made to existing system.

❖ Limitations

The existing manual system at the Yamaha showroom has several limitations, emphasizing the need for an efficient computerized solution:

- Requires Computer Knowledge: – Employees must have basic computer literacy to navigate digital records effectively, which can be a challenge for those unfamiliar with technology.
 - Complex Data Handling :– Managing customer details, vehicle inventory, and service records manually involves going through multiple logs and documents, making the process time-consuming and prone to errors.
-

❖ Conclusion

- **Variety & Performance:** Yamaha offers a wide range of bikes, from commuter models to high-performance sports bikes, catering to different riders' needs.
- **Technology & Innovation:** The brand is known for its advanced engineering, fuel efficiency, and innovative features in motorcycles.
- **Reliability & Durability:** Yamaha bikes are recognized for their strong build quality, ensuring long-term reliability.
- **After-Sales Service:** Yamaha showrooms provide good customer service, maintenance support, and genuine spare parts.