

BASELIOS POULOSE II CATHOLICOS COLLEGE
BASELIOS MOUNT, PIRAVOM
Re-accredited with ‘A’ Grade by NAAC
(Affiliated to Mahatma Gandhi University)

DEPARTMENT OF COMPUTER APPLICATIONS



2023-24
Project Report
on

ECHO WHEELS
(ONLINE ELECTRIC SCOOTER RENTAL SYSTEM)

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ECHO WHEELS (ONLINE ELECTRIC SCOOTER RENTAL SYSTEM)

**Submitted in partial fulfillment of the
Requirements for the award of the degree of**

BACHELOR OF COMPUTER APPLICATION

**Guided by: Dr. Anul Paul
(Dept. of Computer Applications)**

**Submitted by:
Basil K Reji
(210021093761)**

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Certificate

This is to certify that the project entitled “ECHO WHEELS” submitted in partial fulfillment for the award of the degree of BACHELOR OF COMPUTER APPLICATION is a bonafide report of the project done by Basil K Reji (Reg no: 210021093761) during the year 2023-24.

Internal Guide:

Dr. Anul Paul

Examiner: 1.

College Seal

Head of the department

Dr. Anu Paul

Department Seal

DECLARATION

*I hereby declare that the this project work entitled “ECHO WHEELS” is a record of original work done by me under the guidance of **Dr. Anul Paul**, Associate Professor, Department of Computer Applications and the work has not formed the basis for the award of any degree or diploma or similar title to any candidate of any university subject.*

**Internal Guide
Dr. Anul Paul**

Signature of Student

ACKNOWLEDGMENT

ACKNOWLEDGEMENT

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Last but not the least, I also express my gratitude to all other members of the faculty and well wishers who assisted me in various occasions during the project work.

:- Basil K Reji

ABSTRACT

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The Web application entitled “ECHO WHEELS” is an online platform for renting electric scooters in each metro stations. The system is specially designed for people who wish to rent electric scooters. This application mainly helps the metro travellers to book electric scooters for their urban travel.

The system consists of two users : Admin and customer , the admin has the sole control on the system. The admin can verify and edit the information provided by all users. The admin verifies all users of the system. The users who can simply register with basic details and login to search for music teaching services from teachers based on different categories. The users can browse through the application and book the electric scooters they want

At present there are many web applications available for renting scooters through online. But this system is specially designed for renting electric scooters. Also this electric scooters provide an environmental friendly and convenient mode of transportation for short-distance travel in urban areas can use this application.

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SYSTEM STUDY

1.SYSTEM STUDY

1.1 EXISTING SYSTEM

The study about the existing system helps to know as much information as possible about the system. We can find many faults in the existing system. The existing system runs under manual actions. It includes a lot of paper works and calculations. This may consume a lot time of the user.

The main limitation of the system is that it is time consuming process. In the existing system the data entry is made on papers and it become a tedious process; resulting over use of manpower. There is no security and a great chance for loss of valuable data stored in paper files due to hazards like fire and improper storage. Error detection is very difficult in this system. While carrying out error correction methods, the whole process may have to be repeated. All accounting processes are done on paper with the help of a calculator, this often leads to inaccurate results and cash mismatch. So an alternative solution is needed.

1.1.1 Drawbacks of Existing System

- 1. Data storage:-** In manual system paper files require a huge amount of storage space and paper storage creates several problems like spoilage, deterioration by way of aging, humidity etc... Paper based systems are generally very bulky both to handle to store and office space are expensive.
- 2. Speed of processing:-** The speed of execution of data is slow in the existing system. Processing is slower where large volumes of data need to be dealt with. Slower processing means that some information that could be provided if computerized systems were used will not be provided at all, because there is no time.
- 3. Speed of retrieval of information:-** The speed of retrieval information is very slow in this system. Since all details are entered on registers, if we want to retrieve the information about an old customer, we want to go through all the past records until we find the right one.

4. **Time and manpower consuming:-** A considerable amount of time is required for recording details into the system. Report generation of various areas is done manually using great amount of manpower and time. Erroneous records may lead to misleading information, which is more likely in manual system.
5. **Accuracy:-** In the existing system the error rate is high and it is difficult to locate the errors and correct them. Calculations made on papers often leads to cash mismatch and inaccurate results.
6. **Alternations:-** It is difficult to make corrections. If a manual document contains errors or need updating it is often necessary to recreate the whole document from scratch, rather than just a new version with the relevant details changed.
7. **Redundancy:-** If a customer gives different works at different time, each time the customer arrives, the administrator want to store the personnel details repeatedly with each work.
8. **User friendliness:-** In the existing system, the degree of user friendliness is considerably low. This system involves readability of the records and maintenance of different details. The technique used in the system is more complicated and there is a lack of technical background towards the system.
9. **Back up:-** Back up of data cannot be done easily since all data are in different registers and are written on paper.

1.1.2 System Analysis

1.1.2.1 Identifying Needs of the System

The work that was being carried out with the help of the manual system has to be transferred to that of an automated one for a variety of reasons,

1. The manual system is slowly being phased out and all the activities that are being carried out by the manual system could easily and efficiently been alone by the automated system.
2. There are many functions that demanded computerization, but were not being covered by the manual system.
3. The throughout time is high for processing.

4. As information is very voluminous and it is not possible to run systematically and accurately considering the time factor.

The system also needs easy access with a computer system we can easily access any records in it. But when it is in manual systems it is difficult to find it using its serial numbers or something like that. So now a day the need of the automated system is important.

1.1.2.2 Preliminary Investigation

While designing any system preliminary investigation is very important. It is the essential part of the requirement analysis. The purpose of preliminary investigation is to clarify the problems in existing system and strengthening the analyst's idea and background in the problem area. In my system investigation, I visited many websites which offers online teacher finding on various categories.

I realized that there are many websites available but taking into consideration the category music, there are not much websites. So this system is specific for the category music. So it will be more easier to find a music teacher.

1.2 PROPOSED SYSTEM

The objective of the proposed system is to make more efficient and less amount of storage and retrieval of data and to assist the decision making process. The system is menu driven and it has higher user friendliness which makes the user to handle the application more conveniently. So that the user can enter error free data. There are separate provisions for data entry and report generation. This system helps everyone to search for music courses offered by teachers anywhere . The system is very specific on that criteria, specially for music courses. Admin monitors the data provided by all the users and he verifies all user accounts before they can do any transactions or processes in the system.

1.2.1 Advantages of Proposed System

Data entry screens are designed such that they are very user friendly and minimum typing is required from the user,

- Not much training required
- System provides various information's report quickly and accurately in easily understandable formats.
- The new Web application is more user friendly. • The system supports security at operational level i.e., it gives access to view and manipulate the information based on user login
- It aims on paperless work.
- Fast access information.
- Efficient traceability. • Talking into the speed of computer access, large data in less time and facilities provided by the access.
- Duplication of data will be avoided.
- Menu driven interface provides ease to use.
- Availability of previous data for future reference.

1.3 FEASIBILITY STUDY

During the system analysis, a feasibility study of the proposed system was carried out to see whether it was beneficial to the organization or not. The existing system is manual. Some data are currently recorded in books. The books have to be referred every time when a new item is added or an item is removed. The existing system is compared with the merits of the new system. If there is no loss for the organization then the proposed system is considered as financially feasible.

The results of the feasibility study are:-

1. Economic feasibility
2. Technical feasibility
3. Behavior feasibility

1.3.1 Economic Feasibility

Economic analysis is the most frequently used method for evaluating the effectiveness of the proposed system. It is more commonly known as cost benefit analysis, the procedure is to determine the benefit and saving that are expected from the proposed system and compare them with the cost of the existing system. If the benefits outweigh cost then a decision is made to design and implement the system. Otherwise make alterations in the proposed system. The system can be developed technically and if used would still be good for the organization. The cost is found to be lesser as compared to the benefits of the proposed system. The work load of the user will decrease to half of the current work load.

Hence the proposed system is found to be economically feasible.

1.3.2 Technical Feasibility

Technical study is a study of hardware and software requirements. Technical feasibility concentrates on the organization to what extend it can support the proposed system. The question to be answered is whether the organization is technically capable to operate the system.

1.3.2.1 Hardware Requirements:

- Pentium IV
- 256MB RAM
- 500MB HDD

1.3.2.2 Software Requirements:

- Windows 2000 or above

- Web browser with active Internet connectivity

1.3.3 Behavior Feasibility

The developed system is completely driven and user friendly. Also the system is developed using HTML, CSS and JavaScript as front end, which is user interface. There is no need of skill for new user to open this Website and use it. Reports will be exactly as per our requirements.

SYSTEM SPECIFICATION

2. SYSTEM SPECIFICATION

2.1 ABOUT THE FRONT END

The system is created using HTML, CSS, Ajax, jQuery, Bootstrap and JavaScript as front end.

HTML

HTML is a computer language devised to allow Website creation. These Websites can then be viewed by anyone else connected to the Internet. It is relatively easy to learn, with the basics being accessible to most people in one sitting; and quite powerful in what it allows you to create. It is constantly undergoing revision and evolution to meet the demands and requirements of the growing Internet audience under the direction of the W3C, the organization charged with designing and maintaining the language.

HTML consists of a series of short codes typed into a text-file by the site author these are the tags. The text is then saved as a HTML file, and viewed through a browser, like Internet Explorer. This browser reads the file and translates the text into a visible form, hopefully rendering the page as the author had intended. Writing your own HTML entails using tags correctly to create your vision. You can use anything from a rudimentary texteditor to a powerful graphical editor to create HTML pages.

CSS

Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML. CSS helps Web developers create a uniform look across several pages of a Web site. Instead of defining the style of each table and each block of text within a page's HTML, commonly used styles need to be defined only once in a CSS document. Once the style is defined in cascading style sheet, it can be used by any page that references the CSS file. Plus, CSS makes it easy to change styles across several pages at once. For example, a Web developer may want to increase the default text size from 10pt to 12pt for fifty pages of a Web site. If the pages all reference the same style

sheet, the text size only needs to be changed on the style sheet and all the pages will show the larger text.

While CSS is great for creating text styles, it is helpful for formatting other aspects of Web page layout as well. For example, CSS can be used to define the cell padding of table cells, the style, thickness, and color of a table's border, and the padding around images or other objects. CSS gives Web developers more exact control over how Web pages will look than HTML does. This is why most Web pages today incorporate cascading style sheets.

Ajax

Ajax is a set of web development techniques using many web technologies on the client side to create asynchronous web applications. With Ajax, web applications can send and retrieve data from a server asynchronously (in the background) without interfering with the display and behavior of the existing page. By decoupling the data interchange layer from the presentation layer, Ajax allows web pages and, by extension, web applications, to change content dynamically without the need to reload the entire page. In practice, modern implementations commonly utilize JSON instead of XML.

jQuery

jQuery is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. It is free, open source software using the permissive MIT License. As of May 2019, jQuery is used by 73% of the 10 million most popular websites. Web analysis indicates that it is the most widely deployed JavaScript library by a large margin, having 3 to 4 times more usage than any other JavaScript library.

Bootstrap

Bootstrap is a free and open-source CSS framework directed at responsive, mobile first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation and other interface components.

JavaScript

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of Web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

JavaScript was first known as LiveScript, but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java. JavaScript made its first appearance in Netscape 2.0 in 1995 with the name LiveScript. The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other Web browsers.

2.2 ABOUT THE BACK END

The system is created with PHP , MySQL and XAMPP Server as back end.

PHP

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

PHP is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain. The key advantages of learning PHP are:

PHP is a recursive acronym for "PHP: Hypertext Preprocessor". PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server. PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time. PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures (COM and CORBA), making n-tier development a possibility for the first time. PHP is forgiving: PHP language tries to be as forgiving as possible. PHP Syntax is C-Like.

MySQL

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter and "SQL", the abbreviation for Structured Query Language. MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation). In 2010, when Oracle acquired Sun, Widenius forked the open-source MySQL project to create MariaDB. MySQL is a component of the LAMP web application software stack (and others), which is an acronym for Linux, Apache, MySQL, Perl/PHP/Python. MySQL is used by many database-driven web applications, including Drupal, Joomla, phpBB, and WordPress. MySQL is also used by many popular websites, including Facebook, Flickr, MediaWiki, Twitter, and YouTube

XAMPP Server

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP's ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer. With the advantage of common add-in applications such as WordPress and Joomla! can also be installed with similar ease using Bitnami.

A database system is an overall collection of different database software components and database containing the part viz. Database application programs, front-end components, Database management systems and Database.

A database system must provide the following features:

- A variety of user interfaces
- Physical data independence
- Logical data independence
- Query optimization
- Data integrity
- Concurrency control
- Backup and recovery
- Security and authentication

When creating a database, the main concept is to know how the database is structured in SQL. SQL stands for Structured Query Language. It is a language that enables us to create and operate on relational database, which are sets of related information stored in tables. Because of its elegance and independence.

2.3 ABOUT THE OS

The OS used is Windows Operating System.

WINDOWS OS

The hallmark software of Microsoft, which had created a new wave of graphical user interface in the industry, WINDOWS XP stands at the top of its popularity. The advent of Microsoft plus has cured whatever faults were there in the original WINDOWS XP version and made it a useful tool to work with the memory resident programs of it, make the reloading of WINDOWS XP easier, its plug and play connectivity for input output devices makes a new dimension towards the use of computer system. Connectivity to the information network slice Internet through modems makes it overstate software. Almost all new software have their windows version also. The programmer and file manager facilities of it had made a leap way towards giving a new dimension towards the operation of computer systems.

SYSTEM ANALYSIS
AND
DESIGN

3.SYSTEM ANALYSIS AND DESIGN

System design's main aim is to identify the modules that should be in the system, and the specifications of these modules and how they interact with each other to produce the desired results. At the end of the system design all the major data structures, file formats and the major modules in the system and their specification are decided.

3.1 DATA FLOW DIAGRAM

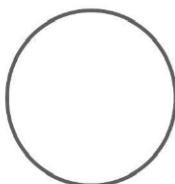
A DFD has the purpose of clarifying system requirements and identifying major transformations that will become programs in system design. These symbols are used in the DFD:



Source or destination of data



Data Flow

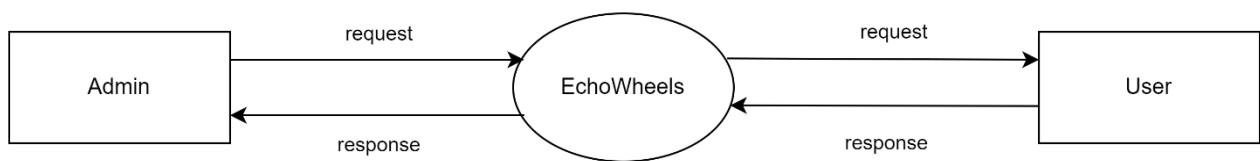


Process that transforms data flow

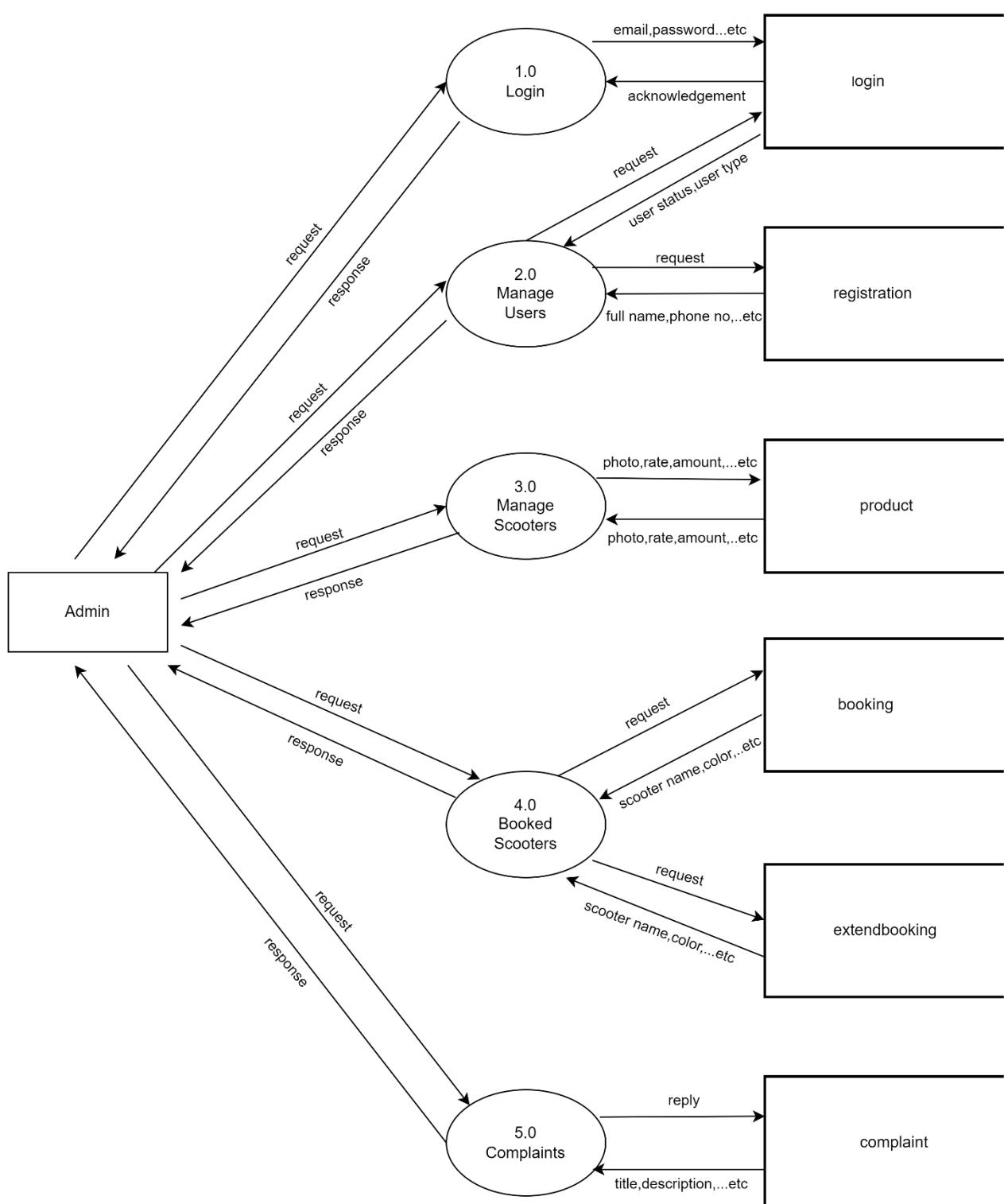


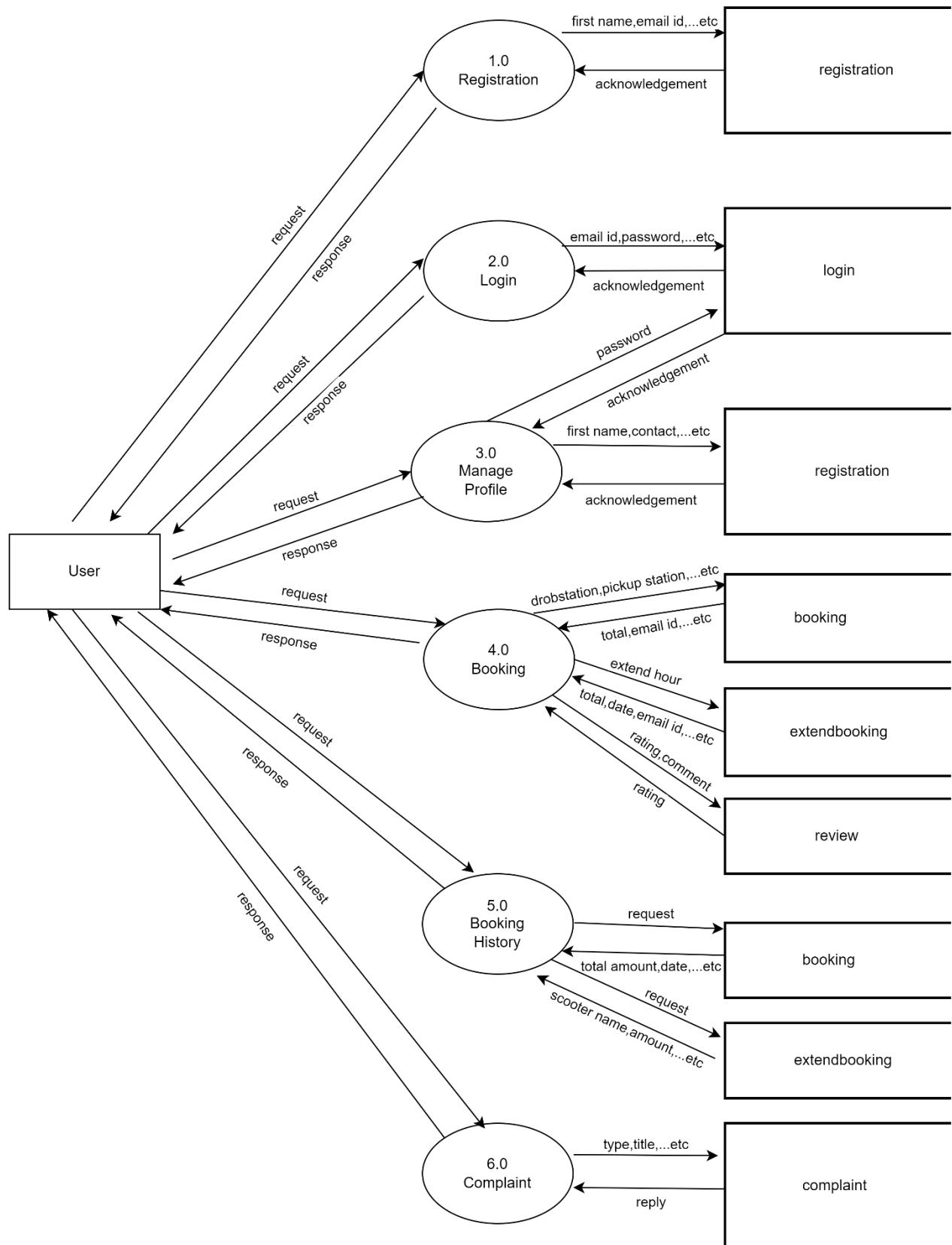
Data store

CONTEXT LEVEL DFD

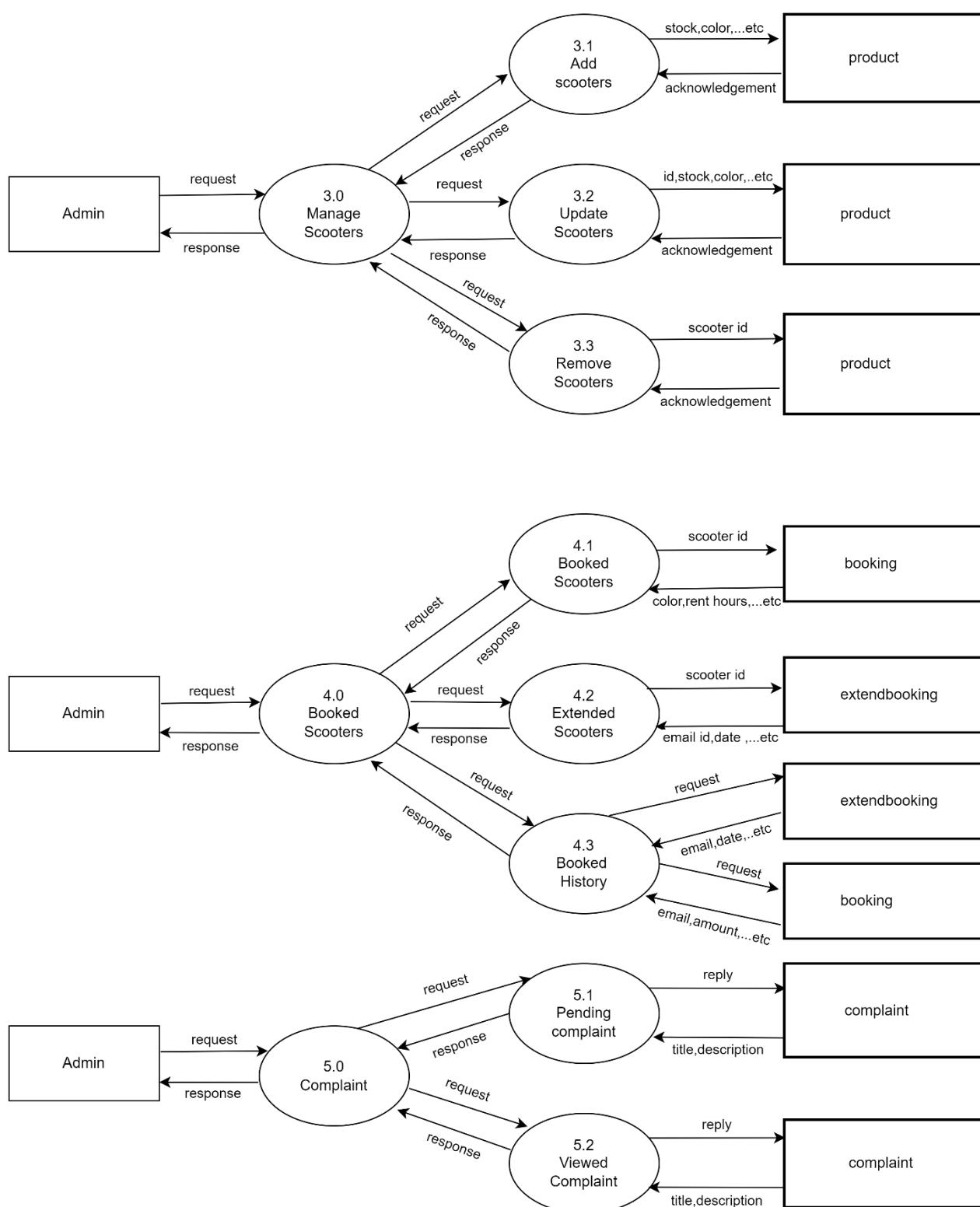


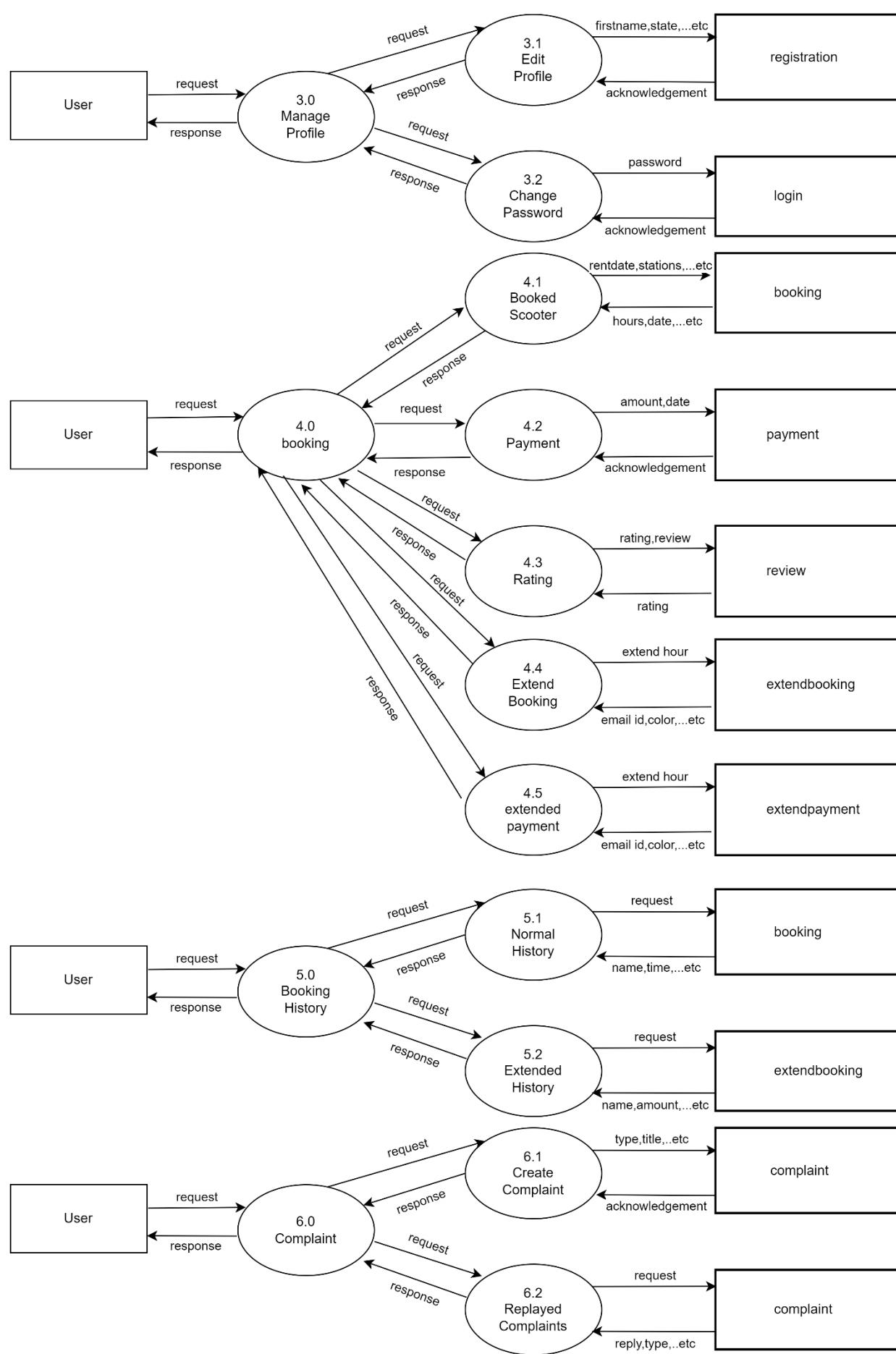
LEVEL 1 DFD





LEVEL 2 DFD





3.2 TABLE DESIGN

The general theme behind a database is to handle information as an integrated whole. A database is a collection of interrelated data stored with minimum redundancy to serve quick access and effective storage. The database is a collection of stored data organized in such a way that all the data requirements are satisfied by the database.

The aim of database design is to improve the existing system situation. A number of database files were designed to hold the data requirements for running their systems. Here we have 10 major tables, described below:

DATABASE: echowheels

TABLE OVERVIEW

SI.NO	TABLE NAME	DESCRIPTION
1	booking	To Store Booking Details
2	complaint	To Store Details Of The Complaints
3	district	To Store All districts
4	extendbooking	To Store Details Of Extended Bookings
5	extendpayment	To Store Details Of Extended Payments
6	login	To Store Login Details
7	metrostations	To Store Details Of Metro Stations
8	otp	To Store otp
9	payment	To Store Details Of Payments
10	product	To Store Details OF The Product
11	rating	To Store Rating Details
12	registration	To Store Registration Details

TABLE NO: 1

TABLE NAME : booking

DESCRIPTION: To Store Booking Details

PRIMARY KEY: booking_id

SL.NO	FIELD NAME	DATA TYPE	DESCRIPTION
1	booking_id	integer	Booking id
2	scooter_name	varchar(50)	Scooter name
3	scooter_category	varchar(50)	Category
4	scooter_color	varchar(50)	Color
5	scooter_id	integer	Scooter Id
6	scooter_rate	varchar(50)	Rate
7	user_name	varchar(70)	User name
8	user_email	varchar(70)	User email
9	pickup_station	varchar(70)	Pickup station
10	drop_station	varchar(70)	Drop station
11	booking_date	date	Booking date
12	rent_hours	time	Total rent hours
13	total	varchar(50)	Total rate
14	payment	integer	Payment success or not
15	status	integer	Checking status

TABLE NO: 2

TABLE NAME : complaint

DESCRIPTION: To Store Details Of The Complaints

PRIMARY KEY: complaint_id

SL.NO	FIELD NAME	DATA TYPE	DESCRIPTION
1	complaint_id	integer	Complaint id
2	title	varchar(40)	Title
3	description	varchar(200)	Description
4	type	varchar(10)	Type
5	date	date	Date
6	email_id	varchar(50)	Email_id
7	reply	varchar(10)	Reply
8	message	varchar(70)	Message

TABLE NO: 3

TABLE NAME : district

DESCRIPTION: To Store All districts

PRIMARY KEY: district_id

SL.NO	FIELD NAME	DATA TYPE	DESCRIPTION
1	district_id	integer	District id
2	district_name	varchar(30)	District names

TABLE NO: 4

TABLE NAME : extendbooking

DESCRIPTION: To Store Details Of Extended Bookings

PRIMARY KEY: extend_id

SL.NO	FIELD NAME	DATA TYPE	DESCRIPTION
1	extend_id	integer	Extend id
2	booking_id	varchar(50)	Booking id
3	scooter_name	varchar(50)	Scooter name
4	scooter_id	varchar(50)	Scooter id
5	scooter_rate	varchar(50)	Scooter rate
6	User_name	varchar(50)	User name
7	user_email	varchar(50)	User email
8	pickup_station	varchar(50)	Pickup station

9	drop_station	varchar(50)	Drop station
10	booking_date	date	Booking date
11	extend_rent_hour	time	Total rent hours
12	extend_total	varchar(50)	Total rate
13	extend_payment	integer	Payment success or not
14	status	integer	Status

TABLE NO: 5

TABLE NAME : extendpayment

DESCRIPTION: To Store Details Of Extended Payments

PRIMARY KEY: extendpayment_id

SL.NO	FIELD NAME	DATA TYPE	DESCRIPTION
1	extendpayment_id	integer	Extendpayment id
2	extendbooking_id	integer	Extendbooking id
3	extend_amount	integer	Extended total amount
4	paid_date	integer	Paid date

TABLE NO: 6

TABLE NAME : login

DESCRIPTION: To Store Login Details

PRIMARY KEY: email_id

SL.NO	FIELD NAME	DATA TYPE	DESCRIPTION
1	email_id	varchar(50)	Email id
2	password	varchar(20)	Password
3	user_type	varchar(20)	User type
4	user_status	varchar(20)	User status

TABLE NO: 7

TABLE NAME : metrostations

DESCRIPTION: To Store Details Of Metro Stations

PRIMARY KEY: metrostation_id

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	metrostation_id	integer	Metrostation id
2	metrostation_name	varchar(70)	Metrostation names

TABLE NO: 8

TABLE NAME : otp

DESCRIPTION: To Store otp

PRIMARY KEY: id

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	id	integer	Email id
2	email	varchar(100)	email
3	otp	varchar(50)	Otp
4	expiry	varchar(50)	Expiry time
5	sendtime	timestamp	Send time

TABLE NO: 9

TABLE NAME : payment

DESCRIPTION: To Store Details Of Payments

PRIMARY KEY: payment_id

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	Payment_id	integer	Payment id
2	Booking_id	varchar(100)	Booking id
3	Amount	varchar(50)	Total amount
4	Paid_date	varchar(50)	Paid date

TABLE NO: 10

TABLE NAME : product

DESCRIPTION: To Store Details OF The Product

PRIMARY KEY: product_id

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	product_id	integer	Booking id
2	image	varchar(50)	Scooter image
3	scooter_name	varchar(50)	Scooter name
4	scooter_category	varchar(50)	Scooter Category
5	scooter_model_year	varchar(50)	Scooter model year
6	scooter_brand	varchar(50)	Scooter brand
7	scooter_plate_number	varchar(50)	Scooter plate number
8	color	varchar(50)	Scooter color
9	stock	varchar(50)	Scooter stock
10	description	varchar(50)	Description
11	amount	varchar(30)	Scooter price

TABLE NO: 11

TABLE NAME : rating

DESCRIPTION: To Store Rating Details

PRIMARY KEY: review_id

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	review_id	integer	Review id
2	scooter_id	integer	Scooter id
3	email_id	varchar(50)	Email id
4	rating	varchar(50)	Rating
5	review	varchar(100)	Review

TABLE NO: 10

TABLE NAME : registration

DESCRIPTION: To Store Registration Details

PRIMARY KEY: emai_id

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	first_name	varchar(30)	First name
2	last_name	varchar(30)	Last name
3	contact	varchar(10)	Phone number
4	email_id	varchar(50)	Email id
5	house_name	varchar(30)	House name
6	street_name	varchar(30)	Street name
7	district_name	varchar(20)	District name
8	state_name	varchar(20)	State name
9	pincode	integer	Pincode
10	date_of_birth	Date	Dob
11	profilepicture	varchar(100)	Profile picture

3.3 INPUT DESIGN

Input is the process of converting user inputs computer based format. The project requires a set of information from the user to prepare a report. In the order, when organized input data are needed.

In the system design phase, the expanded DFD identifies logical data flow, data stores and destination. Input data is collected and organized into groups of similar data. The goal behind designing input data is to make the data entry easy and make it free from logical error. So the input screens in the system should be really flexible and faster to use. The input entry to all type of user is the Email and password. If they are valid the user is allowed to enter into the Web page. (Refer Appendix 8.1)

Objectives

- To produce a cost-effective method of input
- To achieve the highest possible level of accuracy.
- To ensure that the input is acceptable and understandable
- To make clutter free screens
- The prevention of irrelevant data entry
- To make a user friendly input screen

Here in my system, ‘ECHO WHEELS’, interactive input screens ensure the reliability and accuracy of the system.

Entry and modification of personal details can be done easily. All data entry screens should be interactive nature. The input design determines whether the user can interact directly with the computer. Without input design, we can say that it is more user friendly as compared to the existing manual system containing paper operations.

3.4 OUTPUT DESIGN

Outputs are the most important direct source of information to the user and to the management. Efficient and eligible output design should improve the system’s relationship with the user and help in decision making, (Refer Appendix 8.2)

Output design generally deals with the results generated by the system i.e, reports. These reports can be generated from stored or calculated values. Reports are displayed either as screen window preview or printed form. Most end users will not actually operate the information system or enter data through workstation, but they will use the output from the system.

3.5 MENU DESIGN

Menus are designed for the manipulation of the screen. Menu is universal interface for any type of environment. The menu allows the user's choice of response but reduce the chances of error in data.

There is a main window, which contain main menu. By using the appropriate menu option we select screens or windows for input data entry. Access protection is achieved through the password. The user can enter into main window only by giving the correct email and password. Menu provides a set of options on the screen. Cursor movements can select the options. The application consists of number of data manipulation screens. By clicking in the options or menu items we can go to the desired form.

SYSTEM DESCRIPTION

4.SYSTEM DESCRIPTION

The new system is intended to perform the following tasks,

- Anyone can make an account providing their personal details.
- The user account will get activated once the registration is successful.
- The users can search for electric scooters of different categories and book them
- The users can login by entering their email id and password they provided.
- Users can see their previous booking history.
- Admin can add products and update them.
- Users can extend their rented time.
- Admin can see all the bookig history of the users.
- Admin can see all the transactions in the system.
- Admin can see the booked scooters and remove the booking from the users view after the booking time has ended.
- User can make complaints to the admin and he can give reply and also users can give ratings to scooters.

SYSTEM TESTING
AND
IMPLEMENTATION

5. SYSTEM TESTING AND IMPLEMENTATION

Software testing is a critical element of system quality assurance and represents the ultimate reviews of specification, design and coding. Testing presents an interesting anomaly for the software. Testing is vital to the success of the system. Errors can be injected at any stage during development. System testing makes a logical assumption that if all the parts of the system are correct, the goal will be successfully achieved.

During testing, the program to be tested is executed with set of test data and the output of the program for the test data is evaluated to determine if the program is performing as expected. A series of testing are performed for the proposed system before the system is ready for the user acceptance testing.

TYPES OF TESTING:

- Unit Testing
- Integration Testing
- Validation Testing
- Output Testing

5.1 SYSTEM TESTING

5.1.1. UNIT TESTING

Unit testing focuses verification effort on the smallest unit of the software design, the module this is known as module testing. Since the proposed system has modules the testing is individually performed on each module. Using the details description as a guide, important control paths are tested to uncover errors within the boundary of The modules. This testing was carried out during programming stage itself. In This testing step each module is found to be working satisfactorily as regards to the expected output from the module. In our system, we want to check the information like whether the inputs are saved to back end correctly. So every form includes this testing because we want to maintain our database because information like document to be saved, the personal information, security features are so

sensitive and should check it perfectly by each module from the beginning. These are checked in the programming step itself.

5.1.2 INTEGRATION TESTING

Data can be test across an interface, one module can have adverse effect on another, sub function when combined may not produced the desired function. Integration testing is a systematic technique for constructing the program structure while at the same time conducting test to uncover errors associated within the interface. The objective is to take unit tested modules and built a program structure that has been dictated by design. All modules are combined in this testing step. The entire program is tested as a whole. Correction is difficult at this stage because the isolation

of causes is complicated by the vast expense of the program. Thus in the integration testing step all the errors uncover are corrected for the next testing step. Primarily we have met with several errors like data save and table linking. These are corrected well.

5.1.3 VALIDATION TESTING

At the culmination of integration testing, software is completely assembled as a package. Interfacing errors have been uncovered and corrected and a final series of software test-validation testing begins. Validation testing can be defined in many ways, but a simple definition is that validation succeeds when the software functions in manner that is reasonably expected by the user. Software validation is achieved through a series of tests that demonstrate conformity with requirement. After validation test has been conducted, one of two conditions exists.

- The function or performance characteristics confirm to specifications and are accepted.
- A validation from specification is uncovered and a deficiency created.

Deviation or error discovered at this step in this project is corrected prior to completion of the project with the help of the user. Thus the proposed system under consideration has been tested by using validation testing and found to be working satisfactorily.

5.1.4 OUTPUT TESTING

After performing the validation testing, the next step is output testing of the proposed system since no system could be useful if it does not produce the required output in the specific format. The output generated or displayed by the system under consideration is tested asking the users about the format required by them.

In the first test, we saw that our services are disordered and not interactive. We made it in this step. The output format on the screen is found to be correct as the format designed according to the user needs. For the hard copy also, the output comes out as specified by the user. Hence output testing doesn't result in any connection in the system.

5.2 SYSTEM IMPLEMENTATION

Implementation is the stage in the project where the theoretical design is turned into a working system and is giving confidence on the new system for the users, that it will work efficiently and effectively. It involves careful planning, investigation of the current system and its constraints implementation, design of methods to achieve the change over, an evaluation, of change over methods.

Implementation is the final and important phase. The most critical stage in achieving a successful new system and in giving the users confidence that the new system will work and be effective. The system can be implemented only after through testing is done and if it found to working according to the specification. This method also offers the greatest security since the old system can take over if the errors are found or inability to handle certain type of transactions while using the new system.

At the beginning of the development phase a preliminary implementation plan is created to schedule and manage the many different activities must be integrated into plan. The implementation plan is updated throughout the development phase, culminating in A changeover plan for the operation phase. The major elements of implementation plan are test plan, training plan, equipment installation plan and A conversion plan.

There are three types of implementation:

- Implementation of a computer system to replace a manual system.□
- Implementation of a new computer system to replace an existing one.□
- Implementation of a modified application to replace an existing one,using the same computer.

CONCLUSION

6. CONCLUSION

The project entitled “ECHO WHEELS” was completed on time. This project provided maximum interaction and flexibility. The system was tested and the performance of the system was provided to be much efficient and data maintenance is achieved partially. The system has been developed in attractive fashion. The modules in the system help in faster development, implementation and maintenance of the software. This system has been developed as versatile and user friendly as possible keeping in mind the advanced features. Using HTML, CSS, Bootstrap, Ajax, jQuery, JavaScript, PHP, MySQL and XAMPP Server, the system was developed and tested with all possible samples of data. As a whole, the system was well planned and designed. The performance of the system is proved to be efficient. And it already provide all the objectives we have identified before. All modules are tested separately and put together to form the main system. Finally the system is tested with the real data and everything worked successfully. Thus the system has fulfilled the entire objective identified. The system required least hardware requirement to work on. So I can state, I have developed such a good environment for communication, to connect with more people. And it provides a number of advantages too as I described in the previous sections.

To conclude this, I thank all people who help me to complete this project work successfully.

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Kalyani Publication.

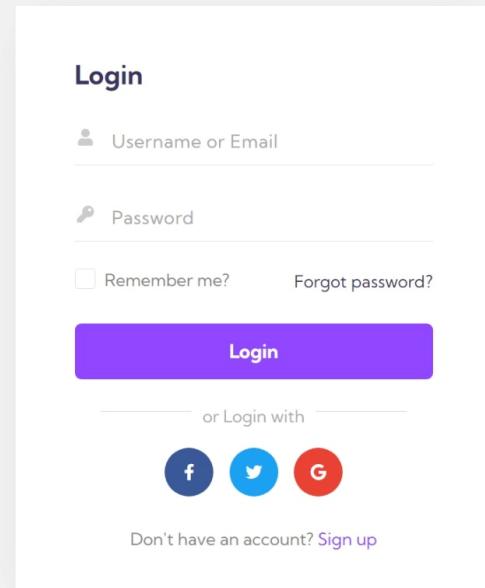
APPENDIX

8.Appendix

8.1 INPUT FORMS DESIGN

FORM 1-Login

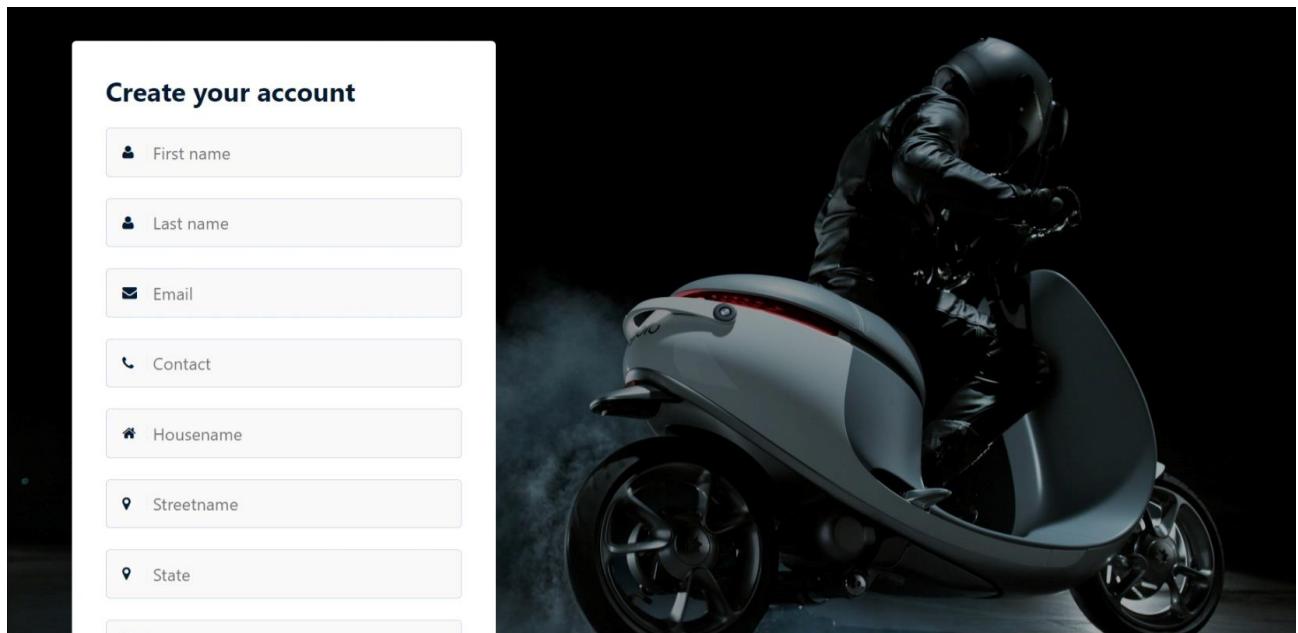
Echo Wheels Login Form



The image shows a login form titled "Echo Wheels Login Form". The form has a "Login" heading at the top. It contains two input fields: "Username or Email" and "Password", each preceded by an icon (user and key). Below these are two links: "Remember me?" and "Forgot password?". A large purple "Login" button is centered below the inputs. Below the button, there is a separator line with the text "or Login with" followed by three social media icons: Facebook (blue circle with white 'f'), Twitter (light blue circle with white bird), and Google (red circle with white 'G'). At the bottom, there is a link "Don't have an account? [Sign up](#)".

© 2023 Echo Wheels login form. All Rights Reserved

FORM 2- SignUp



Create your account

 First name Last name Email Contact Housename Streetname State Select District Pincode dd-mm-yyyy Password confirm password Remember me Signup

Or

Already a member? [Login](#)

FORM 3- User Profile

ECHOWHEELS

- Home
- Profile
- Bookings
- Contact
- Complaints
- History

Profile

Home / Profile



Basil k reji

Your Profile Edit Profile Change Password

Profile Details

First Name	Basil
Last Name	k reji
Email	basilkreji14@gmail.com
Contact	6238813582
House Name	kuruttampurathu
Street Name	pampakuda
State	kerala
District	Ernakulam
Pincode	686667
DOB	2022-03-24

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Form 4- Booking form

ECHOWHEELS

☰

Basil k reji

Home

Profile

Bookings

Contact

Complaints

History

Booking

Home / Booking



Enter Details Here

Scooter Name	s1pro
Scooter Category	Normal
Scooter Color	Mat Green
scooter Rate	100
User Name	Basil
User Email	basilkreji14@gmail.com
Rent Date	11-11-2023
Pickup Station	JLN Stadium
Drop Station	MG Road
Rent Hours	02:00

Proceed **Proceed**

© Copyright Echo Wheels. All Rights Reserved

FORM 5- ExtendBooking Form

ECHOWHEELS

- Home
- Profile
- Bookings
- Contact
- Complaints
- History

Extend Rent

Home / Extend Rent



Enter Details Here

Scooter Name	s1pro
scooter Rate	100
User Name	Basil
User Email	basilkreji14@gmail.com
Pickup Station	MG Road
Drop Station	Maharaja's College
Extend Hours	05:00

Proceed

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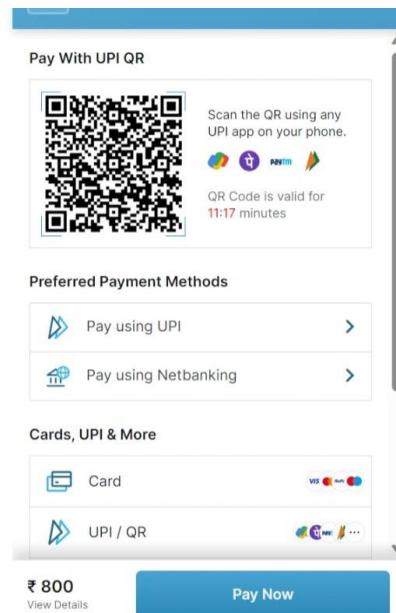
FORM 6- Complaint

The screenshot shows the Echo Wheels mobile application interface. At the top, there is a black header bar with the brand name "ECHO WHEELS" on the left and a user profile icon on the right. Below the header is a navigation menu on the left side with the following items: Home, Profile, Bookings, Contact, Complaints, and History. The main content area is titled "Complaint" and includes a breadcrumb trail: Home / Complaints / Create Complaint. A large white form is centered, titled "Create a complaint". It contains fields for "Email" (with the value "basilkreji14@gmail.com") and "Type" (a dropdown menu with the placeholder "Select Type"). Below these are fields for "Title of the complaint" and "Description", both represented by text input boxes. At the bottom of the form is a blue "Submit" button. At the very bottom of the screen, there is a footer note: "© Copyright Echo Wheels. All Rights Reserved".

FORM 7- Rating

The screenshot shows the Echo Wheels mobile application interface. At the top, there is a black header bar with the brand name "ECHO WHEELS" on the left and a user profile icon on the right. Below the header is a navigation menu on the left side with the following items: Home, Profile, Bookings, Contact, Complaints, and History. A modal dialog box is displayed in the center of the screen, titled "Rate the Event". Inside the dialog, there is a rating scale with five yellow stars. Below the stars is a text input field containing the word "good". At the bottom of the dialog are two buttons: "Close" and "Submit Reply". In the background, there are blurred sections of the app's interface, including what appears to be a list of bookings or reviews. At the very bottom of the screen, there is a footer note: "© Copyright Echo Wheels. All Rights Reserved".

FORM 8- Payment



FORM 9- Add Product

ECHOWHEELS

- Home
- Users
- Complaints
- Scooters
- UpdateScooter
- Booked Scooters
- Booking History

Add Products

Home / Products / Add Products

Add Scooters

Photo Upload No file chosen

Scooter Name

Scooter Category

Scooter Model Year

Scooter Brand

Scooter Plate Number

Color

Description

Stock

Amount

Add Details

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FORM 10- Update Scooter

ECHOWHEELS

- Home
- Users
- Complaints
- Scooters
- UpdateScooter
- Booked Scooters
- Booking History

Update Scooter

Home / Update Scooter



Enter Details Here

scooter id	11
Scooter Name	s1pro
Scooter Category	Normal
Scooter Color	Mat Green
Scooter brand	Echo
Stock	4
Amount	100

Proceed

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Form 11-reply

The screenshot shows the EchoWheels application interface. At the top left is the logo "ECHO WHEELS". On the top right, there is a user icon labeled "Admin". A navigation menu on the left includes "Home", "Users", "Complaints", "Scooters", "UpdateScooter", "Booked Scooters", and "Booking History". The main content area is titled "Complaints" and shows the path "Home / Complaints / Pending Complaints / Reply". Below this is a section titled "Your Complaint List" with a message "Please fill details to send the replay". A text input field contains the placeholder "ok we will work on it". At the bottom right of this section is a "Send Message" button. The footer of the page contains the copyright notice "© Copyright Echo Wheels. All Rights Reserved".

ECHO WHEELS

Admin

Home

Users

Complaints

Scooters

UpdateScooter

Booked Scooters

Booking History

Complaints

Home / Complaints / Pending Complaints / Reply

Your Complaint List

Please fill details to send the replay

ok we will work on it

Send Message

© Copyright Echo Wheels. All Rights Reserved

8.2. OUTPUT FORM DESIGN

1-user Home Page

ECHOWHEELS

Home / Scooters

Basil k reji

Booking

Home / Scooters

3.0 ★

s1pro

Category: Normal

Color: Mat Green

Brand: Echo

Stock: 5

Description: Well maintained

Rate: 100

Book Now

Add Review

4.0 ★

s1Pro Gen2

Category: Normal

Color: Black

Brand: Echo

Stock: 5

Description: well maintained

Rate: 100

Book Now

Add Review

3.0 ★

450X

Category: Normal

Color: Red

Brand: Echo

Stock: 5

Description: well maintained

Rate: 100

Book Now

Add Review

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2-Booked scooters

ECHOWHEELS

Basil k reji

- Home
- Profile
- Bookings
- Contact
- Complaints
- History

Booked Scooters

Home / Booked Scooters / Booked Scooter



s1pro

Booked Date: 2023-11-11

scooter Category: Normal

User Email: basilkreji14@gmail.com

Pickup station: Pathadipalam

Drop station: JLN Stadium

Rent Hours: 8

Total Rate: 800

Extend Rent **View Receipt**

© Copyright Echo Wheels. All Rights Reserved

3-Extended booked scooters

ECHOWHEELS

Basil k reji

- Home
- Profile
- Bookings
- Contact
- Complaints
- History

Scooter

Home / Bookedscooters / Extendbooked



450X

Booked Date: 2023-11-06

User Email: basilkreji14@gmail.com

Pickup station: Companypady

Drop station: MG

Extended Hour: 1

Total Rate: 100

View Receipt

© Copyright Echo Wheels. All Rights Reserved

4-Normal History

The screenshot shows the Echo Wheels mobile application interface. At the top, there is a black header bar with the brand name "ECHO WHEELS" on the left and a user profile icon on the right. Below the header is a navigation sidebar on the left side of the screen, containing links for Home, Profile, Bookings, Contact, Complaints, and History. The main content area is titled "History" and displays the user's "Booking History". It includes a search bar, a dropdown for "entries per page" set to 10, and a "Search..." input field. A table lists three booking entries:

SNo.	Scooter Name	Booked Date & Time	pickup Station	drop Station	Total Hours	Amount Payed
1	450X	2023-11-04	Kaloor	Kadavanthra	2	160
2	s1Pro Gen2	2023-11-11	CUSAT	Town Hall	3	300
3	s1pro	2023-11-11	MG Road	Maharaja's College	5	500

At the bottom of the content area, it says "Showing 1 to 3 of 3 entries". The footer of the screen contains the copyright notice "© Copyright Echo Wheels. All Rights Reserved".

5-Extended History

This screenshot shows the same Echo Wheels mobile application interface as the previous one, but with an extended history view. The main content area is titled "History" and displays the user's "Booking History". It includes a search bar, a dropdown for "entries per page" set to 10, and a "Search..." input field. A table lists two booking entries:

SNo.	Scooter Name	Booked Date & Time	pickup Station	drop Station	Extended Total Hours	Extend Amount Payed
1	s1ProGen2	2023-11-06	Aluva	Pathadipalam	3	300
2	s1pro	2023-11-11	MG Road	Maharaja's College	3	300

At the bottom of the content area, it says "Showing 1 to 2 of 2 entries". The footer of the screen contains the copyright notice "© Copyright Echo Wheels. All Rights Reserved".

6-Complaints

The screenshot shows the 'Complaints' section of the Echo Wheels website. At the top right, there is a user profile for 'Basil k reji'. On the left, a sidebar menu includes 'Home', 'Profile', 'Bookings', 'Contact', 'Complaints' (which is currently selected), and 'History'. The main content area is titled 'Your Complaint List' and displays two entries:

Sno.	Title	Description	Type	Date	Email	Reply
1	scooter tyre	tyre have to be changed	scooter	2023-10-26	basilkreji14@gmail.com	we will work on it
2	website	website is to slow	website	2023-10-27	basilkreji14@gmail.com	kk we will work on it

Below the table, a message says 'Showing 1 to 2 of 2 entries'. At the bottom right of the content area, it says '© Copyright Echo Wheels. All Rights Reserved'.

7-Invoice

The screenshot shows a booking receipt from Echo Wheels. At the top, it says 'Echo Wheels' with buttons for 'Print As Pdf' and 'Send Receipt Email'. The receipt is addressed to 'Basil k reji' at 'kuruttampurathu, pampakuda Ernakulam' with phone number '6238813582' and email 'basilkreji14@gmail.com'. The 'SCOOTER ID - 134' is listed on the right. The booking details are as follows:

SCOOTER NAME	TOTAL RATE	PICKUP STATION	DROP STATION	BOOKED DATE	TOTAL HOURS
s1pro	800	Pathadipalam	JLN Stadium	2023-11-11	8

The total amount is listed as 'TOTAL : 800'. Below the table, a note states: '* Recepit was created on a computer and is valid without the signature and seal.
* If you have any questions concerning this receipt, contact [Name, Phone Number, Email].'

At the bottom, it says 'THANK YOU FOR YOUR BOOKING'.

8-Admin Dashboard

ECHOWHEELS

Admin

Home

Users

Complaints

Scooters

UpdateScooter

Booked Scooters

Booking History

Dashboard

Total Members 4

Total Scooters 3

Normal Bookings 10

Extended Bookings 5

Total Amount 5340

Total Extended Amount 3000

Current Bookings 1

Extended Current Bookings 1

Total Stock 14

User List

10 entries per page

Search...

Sno.	Full Name	Phone no	Email	DOB	Address
1	Basil k reji	6238813582	basilkreji14@gmail.com	2022-03-24	Kuruttampurathu Pampakuda, Ernakulam, Kerala, 686667,
2	basil shajan	6767685789	basilshajan55@gmail.com	2014-09-25	KKKK YYYY, Alappuzha, HHH, 898988,
3	Benson k reji	7561866943	benson123@gmail.com	2006-05-23	Kuruttampurathu Pampakuda, Ernakulam, Kerala, 686667,
4	eldho wilson	9074288916	eldhowilson22@gmail.com	2003-04-22	House AAA, Ernakulam, Kerala, 686667,

Showing 1 to 4 of 4 entries

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9-Pending Complaint

The screenshot shows the Echo Wheels Admin interface. The left sidebar contains navigation links: Home, Users, Complaints (selected), Scooters, UpdateScooter, Booked Scooters, and Booking History. The main content area is titled 'Complaints' and shows a breadcrumb path: Home / Complaints / Pending Complaints. A sub-section titled 'Your Complaint List' displays a table with one entry. The table columns are Sno., Title, Description, Type, Date, Email, and Action. The single entry is: Sno. 24, Title scooter, Description scooter have to be serviced, Type scooter, Date 2023-11-11, Email basilkreji14@gmail.com, and Action (a green 'Reply' button). Below the table, a message says 'Showing 1 to 1 of 1 entries'. The footer of the page includes a copyright notice: © Copyright Echo Wheels. All Rights Reserved.

Sno.	Title	Description	Type	Date	Email	Action
24	scooter	scooter have to be serviced	scooter	2023-11-11	basilkreji14@gmail.com	<button>Reply</button>

Showing 1 to 1 of 1 entries

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10-Viewed Complaints

ECHOWHEELS

☰ Admin

Home Users Complaints Scooters UpdateScooter Booked Scooters Booking History

Complaints

Home / Complaints / Viewed Complaints

Your Complaint List

10 entries per page Search...

Sno.	Title	Description	Type	Date	Email	reply
18	scooter tyre	tyre have to be changed	scooter	2023-10-07	benson123@gmail.com	kk we will work on it
19	service	scooter should be serviced	service	2023-10-07	benson123@gmail.com	kk we will work on it
20	website	website should be more colour full	website	2023-10-07	benson123@gmail.com	kk we will work on it
22	scooter tyre	tyre have to be changed	scooter	2023-10-26	basilkreji14@gmail.com	we will work on it
23	website	website is to slow	website	2023-10-27	basilkreji14@gmail.com	kk we will work on it

Showing 1 to 5 of 5 entries

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11-Update Scooter

ECHOWHEELS

- Home
- Users
- Complaints
- Scooters
- UpdateScooter
- Booked Scooters
- Booking History

View Scooter

Home / View Scooter

Model	Category	Color	Brand	Stock	Description	Rate	Action
s1pro	Normal	Mat Green	Echo	4	Well maintained	100	<button>Update</button> <button>Delete</button>
s1Pro Gen2	Normal	Black	Echo	5	well maintained	100	<button>Update</button> <button>Delete</button>
450X	Normal	Red	Echo	5	well maintained	100	<button>Update</button> <button>Delete</button>

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12-Booked Scooter

ECHOWHEELS

Admin

- Home
- Users
- Complaints
- Scooters
- UpdateScooter
- Booked Scooters
- Booking History

☰

Booked Scooters

Home / Booked Scooters / Booked Scooter



s1pro

scooter Category: Normal

Scooter Color: Mat Green

Booked date: 2023-11-11

User Email:
basilkreji14@gmail.com

Pickup station: Pathadipalam

Drop station: JLN Stadium

Rent Hours: 8

Total Rate: 800

Send Code Remove

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13-Extended Booked Scooters

ECHOWHEELS

Admin

- Home
- Users
- Complaints
- Scooters
- UpdateScooter
- Booked Scooters
- Booking History

☰

Booked Scooters

Home / Booked Scooter / Extended Scooters



450X

Booking Date & Time: 2023-11-06

User Email: basilkreji14@gmail.com

Pickup station: Companypady

Drop station: MG

Rent Hours: 1

Total Rate: 100

Remove

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13-Booking History

ECHOWHEELS



Admin

History

Home / History / Booking History

Normal Booking History

10 entries per page

Search...

Slno.	Email	Scooter Name	Booked Date	pickup Station	drop Station	Total Hours	Amount Payed
1	benson123@gmail.com	s1	2023-10-28	Aluva	Pettah	10	1000
2	basilshajan555@gmail.com	s1ProGen2	2023-10-30	Aluva	Town Hall	3	300
3	benson123@gmail.com	450X	2023-11-16	Palarivattom	Town Hall	7	700
4	benson123@gmail.com	s1ProGen2	2023-10-31	Changampuzha Park	MG Road	9	900
5	basilkreji14@gmail.com	450X	2023-11-04	Kaloor	Kadavanthra	2	160
6	eldhowilson22@gmail.com	s1Pro Gen2	2023-11-10	CUSAT	Ernakulam South	2	400
7	benson123@gmail.com	450X	2023-11-09	Palarivattom	Ernakulam South	2	200
8	basilkreji14@gmail.com	s1Pro Gen2	2023-11-11	CUSAT	Town Hall	3	300
9	basilkreji14@gmail.com	s1pro	2023-11-11	MG Road	Maharaja's College	5	500

Showing 1 to 9 of 9 entries

Extended Booking History

10 entries per page

Search...

Slno.	Email	Scooter Name	Booked Date	pickup Station	drop Station	Extended Total Hours	Extend Amount Payed
1	benson123@gmail.com	s1	2023-10-28	Aluva	Pettah	2	200
2	benson123@gmail.com	s1ProGen2	2023-10-31	Changampuzha	MG	7	700
3	basilkreji14@gmail.com	s1ProGen2	2023-11-06	Aluva	Pathadipalam	3	300
4	basilkreji14@gmail.com	s1pro	2023-11-11	MG Road	Maharaja's College	3	300

Showing 1 to 4 of 4 entries

[Document title]