

EGERTON UNIVERSITY



NAKURU TOWN CAMPUS

USER MANUAL

For

DIGITAL BODABODA MANAGEMENT SYSTEM

Prepared by

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COURSE UNIT: SYSTEM PROJECT (COMP 493)

DEPARTMENT: COMPUTER SCIENCE

PROGRAM: BSc. COMPUTER SCIENCE

VERSION: 1.0

ACKNOWLEDGEMENT

I hereby give thanks to God for giving me the strength to work on my project this far. My extended gratitude to Mr. KIMANI NJOROGI my project supervisor for guiding me as I worked on my project, our coordinator DR. ING. W. GIKARU, my fellow students and all the other stakeholders for all their guidance and effort to see me through.

DECLARATION

I Johnson M. Mbuthia registration number SP131/20214/13 declare that the content of this document is my original work and has not been published and/or submitted for any other degree award in any other university before.

STUDENT'S SIGNATURE: DATE: _____

Supervisor's Approval

This work has been submitted with approval of my supervisor MR. KIMANI NJOROGI.

SIGNATURE: DATE: _____

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CHAPTER ONE

GENERAL INFORMATION

1.1 System Overview

This system is a web based following MVC-based client server system composed of a Model, a Controller and a View layer. This system targets motorbike Sacco's that want to digitize their operations so as to reach their members at ease and at any time.

1.2 Project References

- DBMS SRS
- DBMS SDD

1.3 Authorized Use Permission

No one is allowed to use the system without the permission of the owner or consent.

1.4 Contact information

In case of any problems related to the system's execution, please report them to the administrator of your IT department for any assistance; you may also contact the system developer through their email at jmbuthia12@gmail.com or using the cell number +254717925741.

1.5 Coordination

The Administrator is the main user, he/she is in charge of overseeing the system's activities. Above all he/she is in charge of coordinating the users' activities within the system such as application approval, assigning and un-assigning rider motorbike etc. All this is in attempt to ensure smooth operation of the system.

1.6 Organization of the Manual

The user manual for DBMS is organized in three sections as follows:

Section 1: This section provides general information of the system which entails system overview, references, authorized use and point of contact.

Section 2: This section provides a description of the system summary which is composed of system configuration, data and access levels.

Section 3: Illustrates system navigation.

1.7 Acronyms and Abbreviations

TERM	DESCRIPTION
DBMS	Digital Bodaboda Management System
MVC	Model View Controller
SDD	System Design Document
SRS	System Requirement And Specification
SMS	Short Message Service

CHAPTER TWO

2.0 SYSTEM SUMMARY

2.1 System Configuration

DBMS uses the input devices to capture information which is then processes by the system. The devices include;

2.1.1 Input devices

Keyboard- This is the main device employed by the system. It is mainly used to enter data in the system via online forms.

Mouse- This point and click device is used in conjunction with the keyboard. The system being accessed via a Graphical user interface the mouse is used mainly for navigation and returning data to the data access layer of the system.

2.1.2 Output devices

- **Printer** -For printing documents and reports
- **Monitor**-Used as the main device for displaying any output generated by the system.

2.2 Flow of data

- i. The system captures the users details, creates accounts for them respectively according to their roles.
- ii. The system keeps the following records for users:
 - The users' personal details (riders, owner, owner-rider and administrator).
 - Any application or requests that may have been made.

- Users' transactions.
 - Registered rider.
- iii. The system is also capable of generating data from the same data in different fashions according to the users' requirements.

2.3 User Access Levels

2.3.1 Owner

This user will be able to register their motorbike via the system after which their motorbike will be assigned to rider and they can monitor each of their motorbike since it is possible to own many motorbike.

2.3.2 Rider

This is the second classes of system user; he/she can apply to be rider. After the application is approved he/she can now be assigned motorbike to ride. is in charge of overseeing all the activities of the other users such as approving user applications, approving orders, inventory management etc.

2.3.3 Administrator

This category of user is in charge of overseeing all the activities of the other users such as approving user applications, assigning and un-assigning rider motorbike, management of the system, system installation, maintenance, upgrading, troubleshooting activities etc.

2.3.4 Owner-Rider

These are system users who owns a motorbike and are rider at the same time. He/she can only ride one motorbike but he/she can own many.

CHAPTER THREE

3.0 GETTING STARTED

This section provides you with all the information you need to begin using DBMS. It explains how to:

- i. Start the application
- ii. Use the application
- iii. Exit the application

3.1 Installations Environment

Server side installation instructions:

- i. Install java runtime environment (JRE) for your operating system. You can download the JRE from oracle.com. Installation instructions can also be obtained from there.
- ii. Install any of the following java application servers as specified in the vendors website:
 - JBoss
 - Glassfish – oracle.com
 - Tomcat – apache.org
 - WebLogic
- iii. Copy the WAR (Web Archive) file of the project into the respective webapps directory as specified in the vendors website.
- iv. Start the application server.

Client-side installation instructions:

The client needs to only install any of the following web browsers.

- Internet explorer –Windows Only
- Google chrome- Cross platform
- Firefox – Cross platform
- Opera – Cross platform
- Safari - MacOS

3.2 User Instruction Procedures

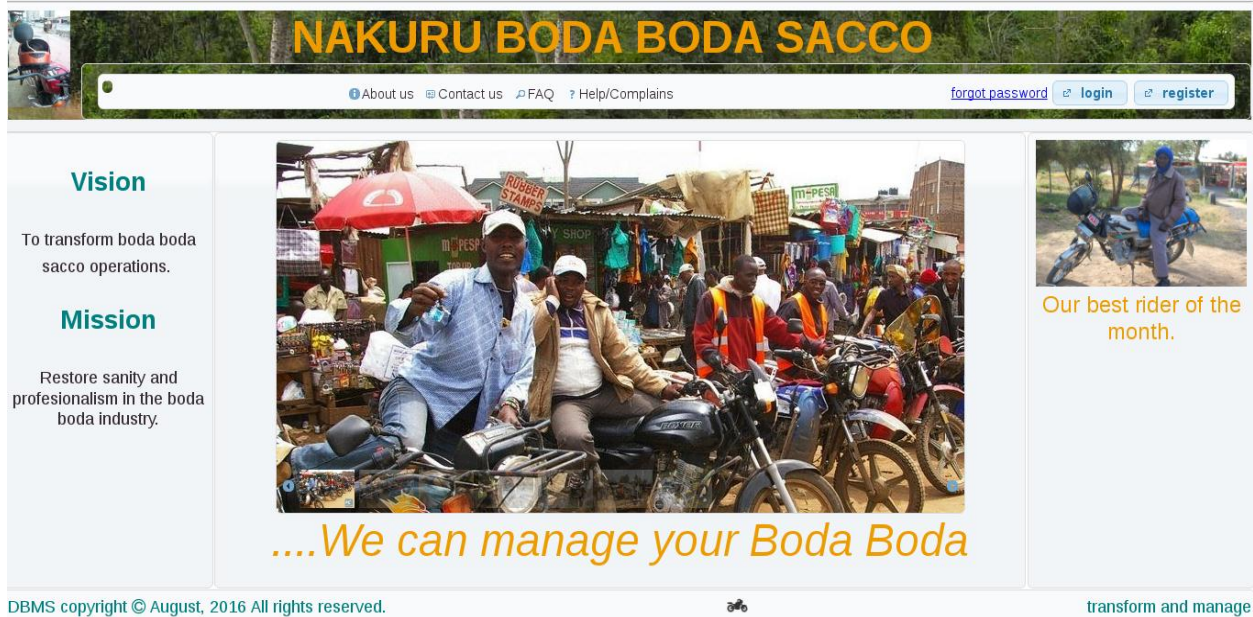
The user can access the system by launching a browser and entering the URL (Universal Resource Locator) in the browser's address and press return. The URL to access the system is "http://localhost:8080/dbms/". He/she will be displayed the default home page where he can access the log page and by entering their id number and password. After gaining access to the system, the user can then gain access to the system and perform their respective activities after which they can log out.

CHAPTER FOUR

4.0 SYSTEM NAVIGATION

4.1 System Welcome Page

This is the first screen that any user views on first visit to the application. The user can access general organization information from here. It also provides a button to log in at the top of the page. It is accessed by entering “http://localhost:8080/dbms/” in the browsers URL.



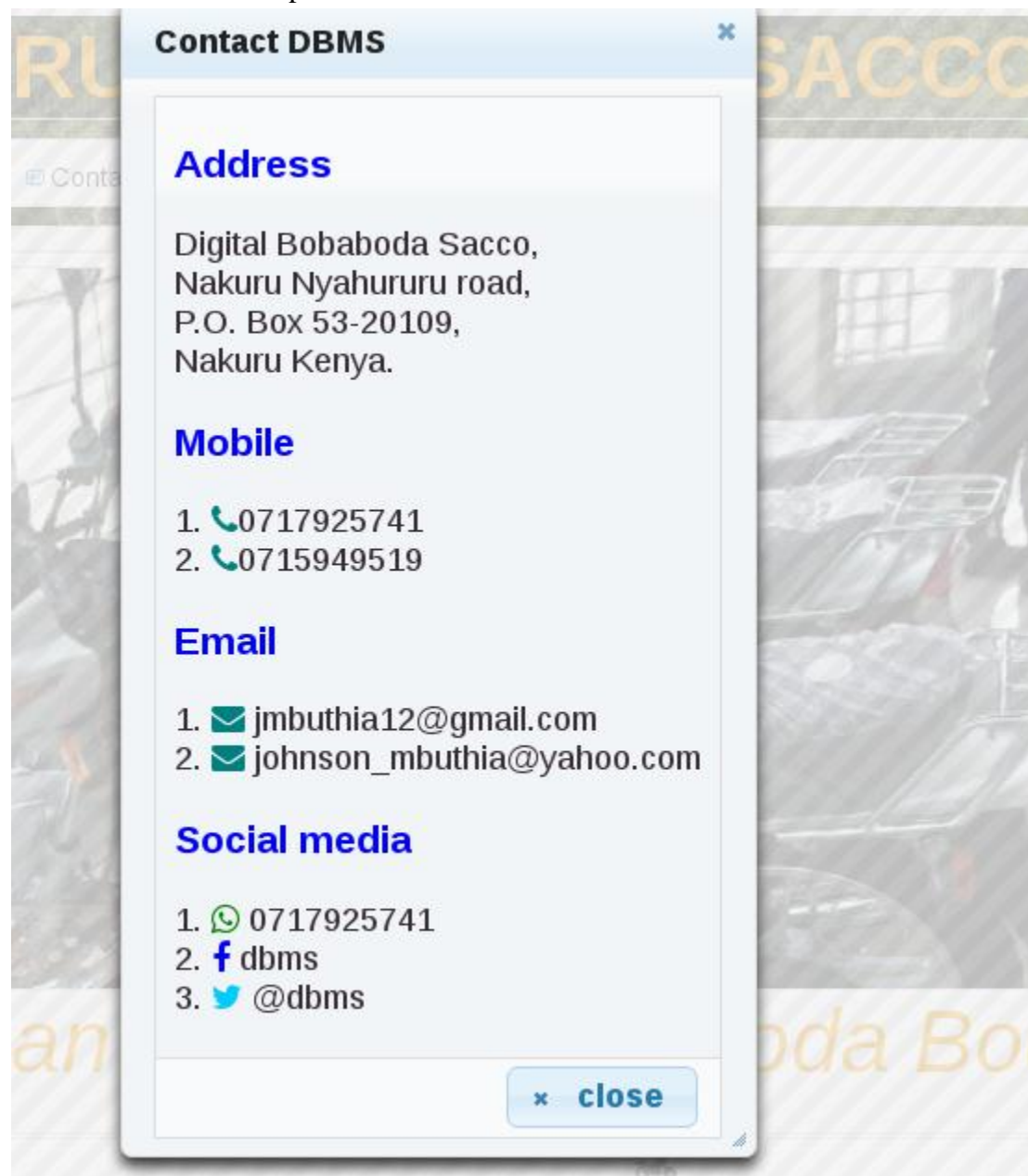
4.1.1 About Us Page

This page will be a dialog popup that will be displaying information about the Sacco. It is accessed by entering “http://localhost:8080/dbms/” in the browsers URL and then clicking the about us link in the top center.



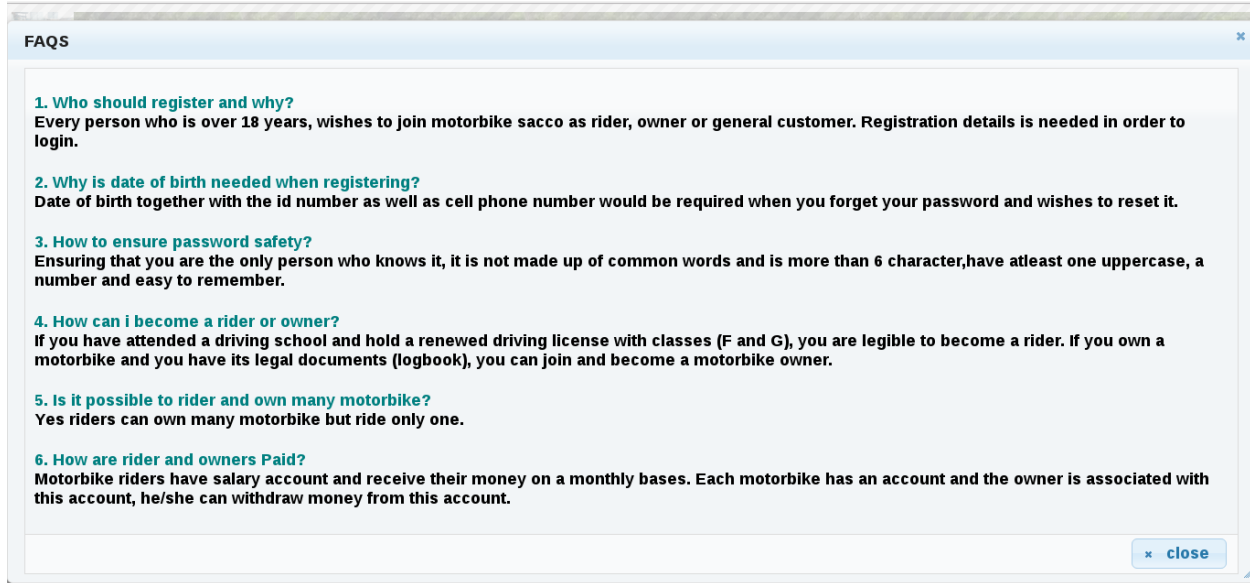
4.1.2 Contact Us Page

This page will be a dialog popup that will be displaying contact information of the Sacco. It is accessed by entering “http://localhost:8080/dbms/” in the browsers URL and then clicking the contact us link in the top center



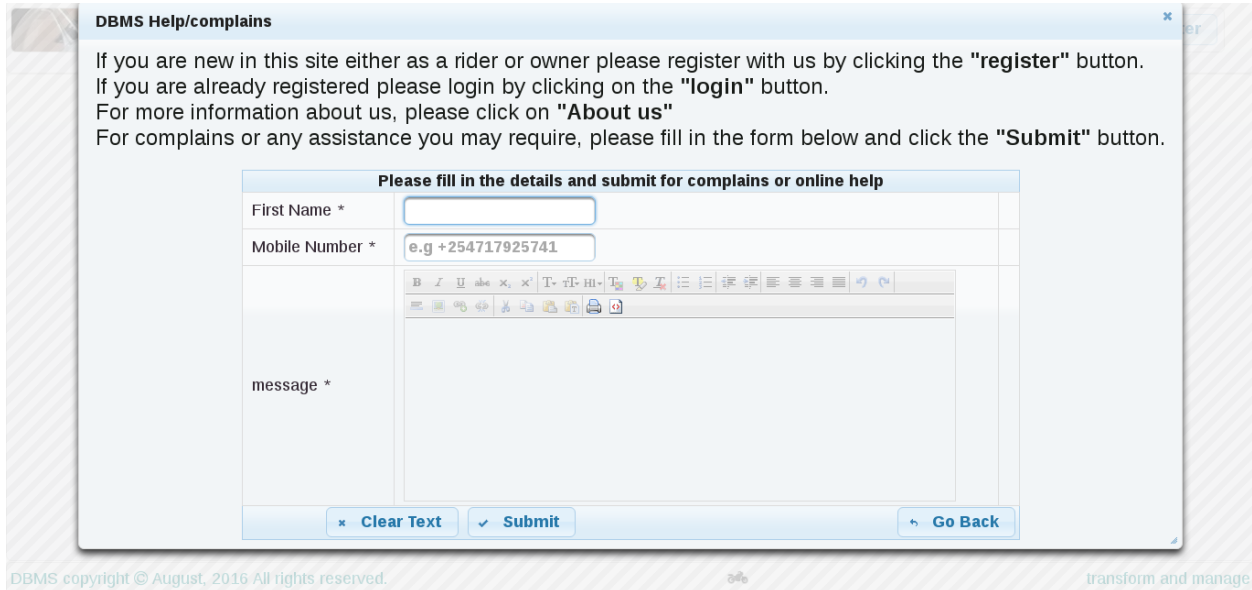
4.1.3 Frequently Asked questions (FAQ) Page

This page will be a dialog popup that will be displaying the most asked questions together with the solutions. It is accessed by entering “http://localhost:8080/dbms/” in the browsers URL and then clicking the faq link in the top center.



4.1.4 Help/Complains Page

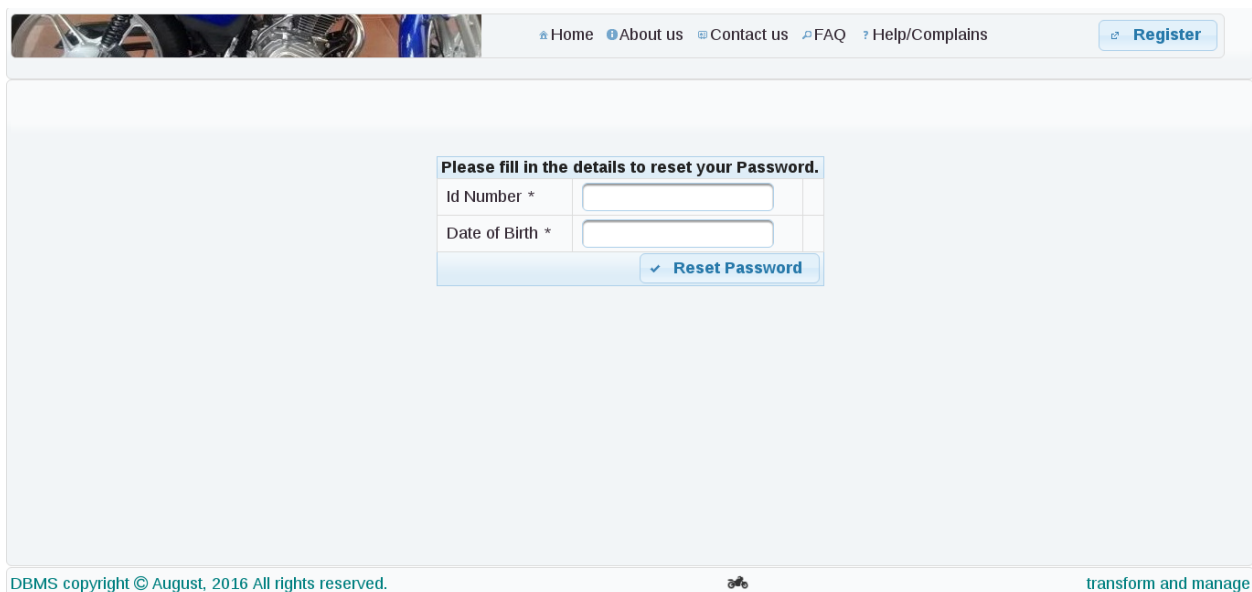
This page will be a dialog popup that will be displaying the help message as well as form to fill when you want further help or complain. It is accessed by entering “http://localhost:8080/dbms/” in the browsers URL and then clicking the Help/Complains link in the top center.



The screenshot shows a dialog box titled "DBMS Help/complains". Inside, there is instructional text: "If you are new in this site either as a rider or owner please register with us by clicking the 'register' button. If you are already registered please login by clicking on the 'login' button. For more information about us, please click on 'About us' For complains or any assistance you may require, please fill in the form below and click the 'Submit' button." Below the text is a form titled "Please fill in the details and submit for complains or online help". The form has three fields: "First Name *" with an empty text box, "Mobile Number *" with a text box containing "e.g +254717925741", and "message *" with a large text area. Above the message area is a rich text editor toolbar. At the bottom of the form are three buttons: "Clear Text", "Submit", and "Go Back". The footer of the page contains the text "DBMS copyright © August, 2016 All rights reserved." and "transform and manage".

4.1.5 Forgot Password Page

This page will be used to reset the password.



The screenshot shows the "Forgot Password" page. At the top, there is a navigation bar with links: "Home", "About us", "Contact us", "FAQ", "Help/Complains", and a "Register" button. Below the navigation bar is a form titled "Please fill in the details to reset your Password.". The form has two fields: "Id Number *" with an empty text box and "Date of Birth *" with an empty text box. Below the fields is a "Reset Password" button. The footer of the page contains the text "DBMS copyright © August, 2016 All rights reserved." and "transform and manage".

4.2 Registration page

The module is used by general users of the system that is riders and owner to register in order to gain access to the system. The module provides several text boxes for users to enter their personal details such as names, contact information and gender among others. You should fill in all the required fields and follow the format of the place holders so as to ensure you enter valid information. After that you should click the button below the form named 'Register' so as to submit the application. Once you submit you will get a popup notification informing you on success or on error. If here is no error you will receive a SMS via your mobile phone to inform you that you have registered successfully and navigated to login page. Once you login you will login as general user, from where you can now register new motorbike or apply to be a motorbike rider.



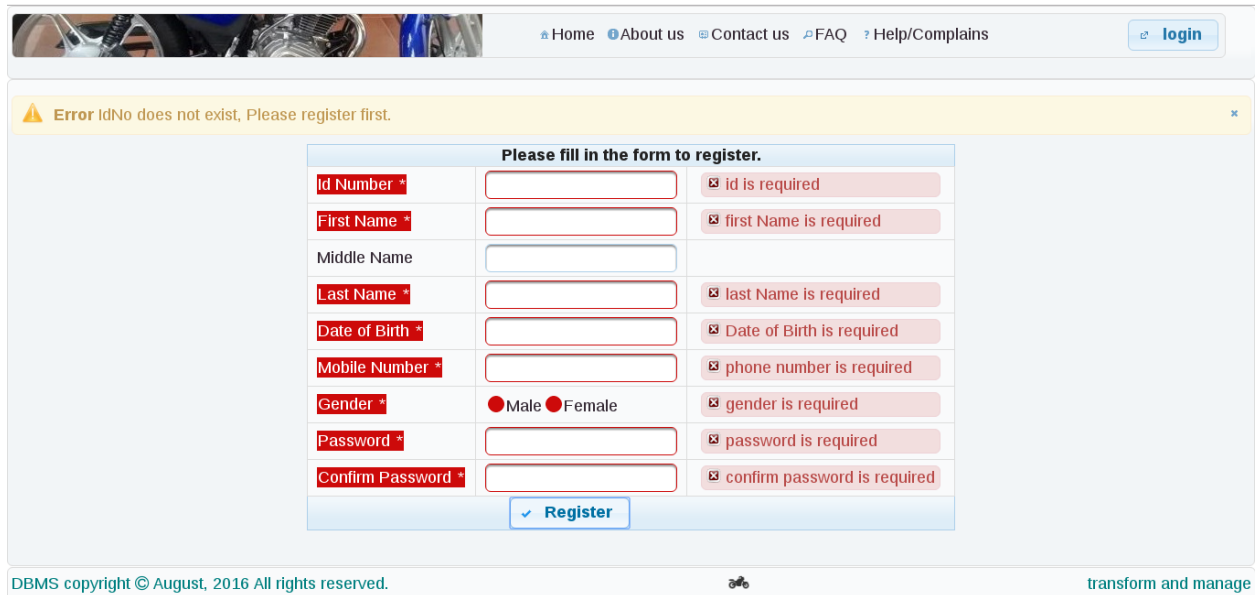
The screenshot displays the registration interface of the DBMS. At the top, there is a navigation bar with links for Home, About us, Contact us, FAQ, and Help/Complains, along with a login button. The main content area features a registration form titled "Please fill in the form to register." The form includes fields for Id Number, First Name, Middle Name, Last Name, Date of Birth (with a Year/Month/Day placeholder), Mobile Number (with a placeholder e.g. +254717925741), Gender (with radio buttons for Male and Female), Password (with a placeholder e.g. JohnS@n1), and Confirm Password. A Register button with a checkmark icon is located at the bottom of the form. The footer contains the copyright notice "DBMS copyright © August, 2016 All rights reserved.", a small logo, and the text "transform and manage".

Please fill in the form to register.	
Id Number *	<input type="text"/>
First Name *	<input type="text"/>
Middle Name	<input type="text"/>
Last Name *	<input type="text"/>
Date of Birth *	<input type="text" value="Year/Month/Day"/>
Mobile Number *	<input type="text" value="e.g +254717925741"/>
Gender *	<input checked="" type="radio"/> Male <input type="radio"/> Female
Password *	<input type="text" value="e.g JohnS@n1"/>
Confirm Password *	<input type="text"/>
<input type="button" value="✓ Register"/>	

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4.2.1. Register Page on error

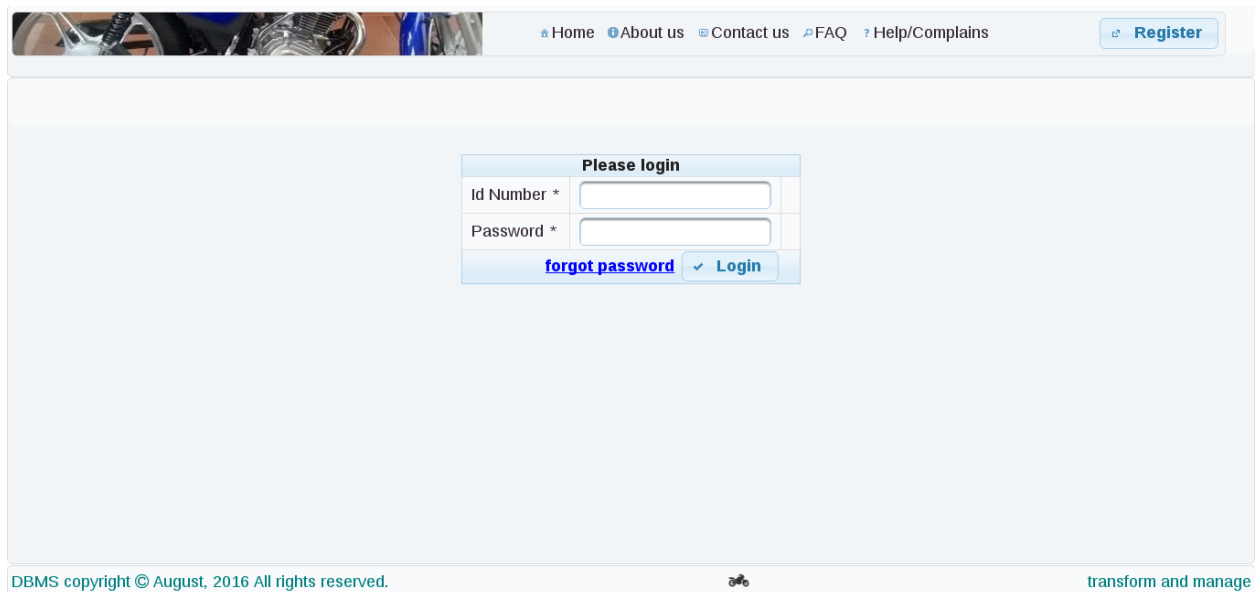
The same register page will change and focus the error made



The screenshot shows the Register Page of the DBMS. At the top, there is a navigation bar with links: Home, About us, Contact us, FAQ, and Help/Complains. A login button is also present. Below the navigation bar, a yellow error message box states: "Error IdNo does not exist, Please register first." Below the error message, there is a registration form titled "Please fill in the form to register." The form contains the following fields: Id Number *, First Name *, Middle Name, Last Name *, Date of Birth *, Mobile Number *, Gender *, Password *, and Confirm Password *. Each field has a corresponding "required" message (e.g., "id is required", "first Name is required", etc.). A "Register" button is located at the bottom of the form. The footer of the page includes the text "DBMS copyright © August, 2016 All rights reserved." and "transform and manage".

4.2.2. Login Page

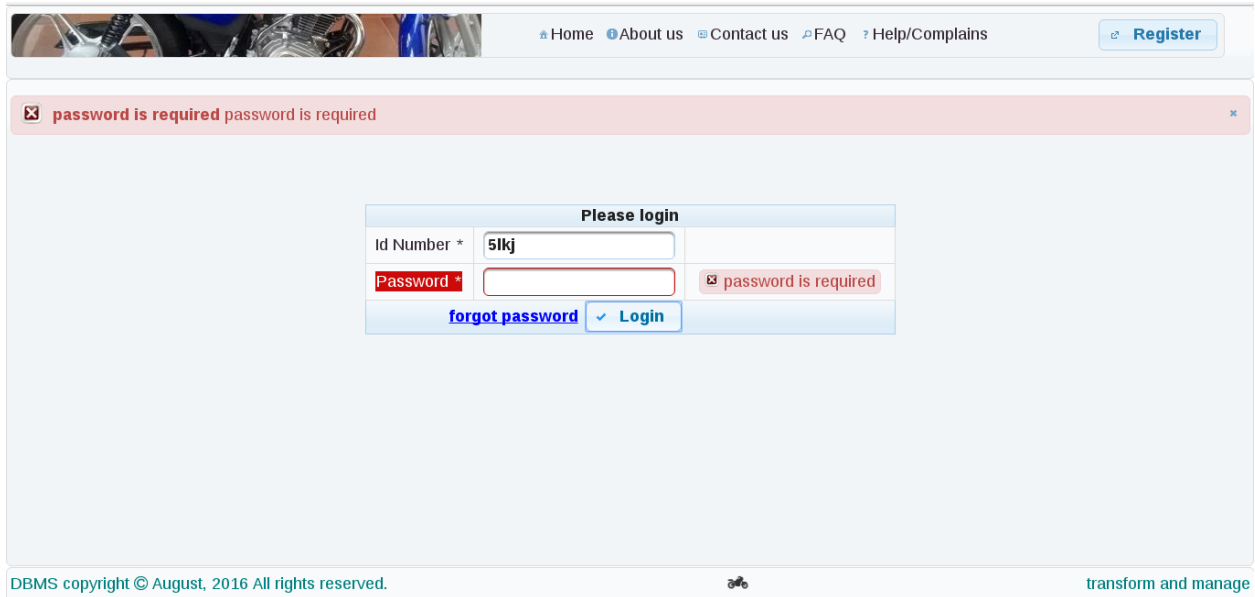
This page will be used to login into the system. After successful login the user will be directed to their dashboard. It will be accessed via clicking on login button in the system home page.



The screenshot shows the Login Page of the DBMS. At the top, there is a navigation bar with links: Home, About us, Contact us, FAQ, and Help/Complains. A Register button is also present. Below the navigation bar, there is a login form titled "Please login". The form contains the following fields: Id Number * and Password *. Below the fields, there is a "forgot password" link and a "Login" button. The footer of the page includes the text "DBMS copyright © August, 2016 All rights reserved." and "transform and manage".

4.2.3. Login Page on error

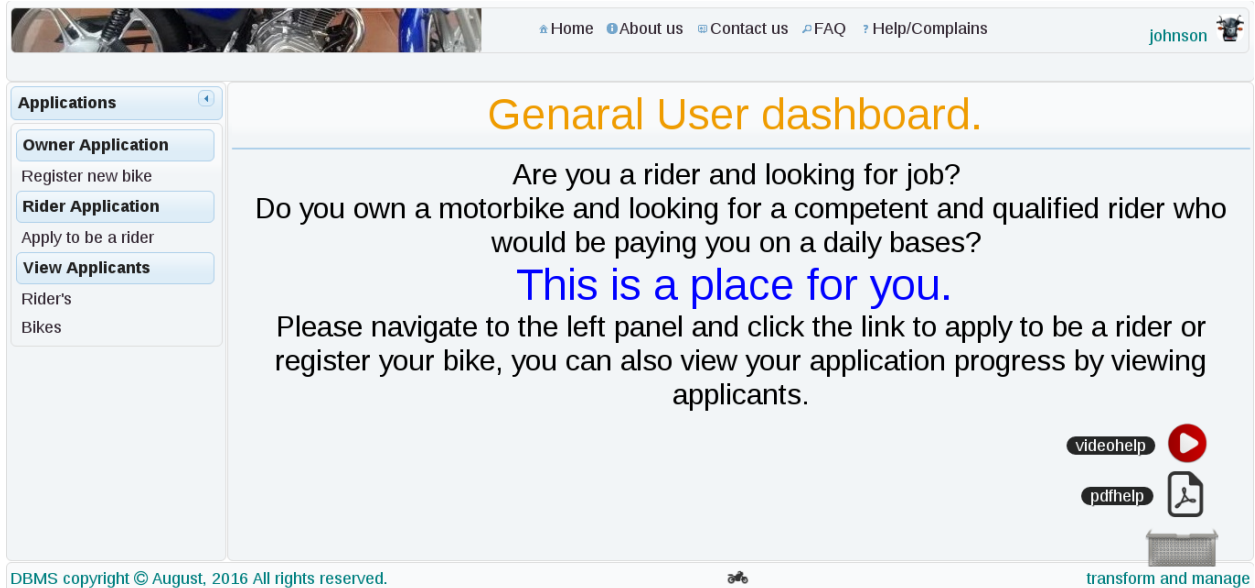
This page is the same login page but focuses on the generated error.



The screenshot shows a web application header with a navigation bar containing links: Home, About us, Contact us, FAQ, and Help/Complains. A 'Register' button is on the right. Below the header, a red error message bar displays 'password is required password is required'. The main content area features a 'Please login' form with two input fields: 'Id Number *' (containing '5lkj') and 'Password *' (empty). A red error message 'password is required' is shown next to the password field. Below the fields are links for 'forgot password' and a 'Login' button. The footer contains the text 'DBMS copyright © August, 2016 All rights reserved.', a small motorcycle icon, and the text 'transform and manage'.

4.3 General User Home page

This page will be accessed by user when they register and login for the first time. This is the default dashboard for the new registered user.




The screenshot shows a web application dashboard. The header is identical to the previous page, but includes a user profile 'johnson' on the right. The main content area is titled 'General User dashboard.' and contains a welcome message: 'Are you a rider and looking for job? Do you own a motorbike and looking for a competent and qualified rider who would be paying you on a daily bases? This is a place for you.' Below this, it says 'Please navigate to the left panel and click the link to apply to be a rider or register your bike, you can also view your application progress by viewing applicants.' The left sidebar has a section titled 'Applications' with a dropdown arrow, and a section titled 'Owner Application' with links: 'Register new bike', 'Rider Application', 'Apply to be a rider', 'View Applicants', 'Rider's', and 'Bikes'. The bottom right corner has links for 'videohelp' and 'pdfhelp' with corresponding icons. The footer is the same as the previous page.


4.3.1. Application to be motorbike rider page

This page will be used by riders to submit their applications. It is accessed by selecting apply to be a rider link on the navigation pane in the general user home page or owner home page.

Please fill in the form to request adding Driving License to the D.B.M.S.

Driving License Number(C) *	<input type="text" value="e.g 1610165"/>
Reference Number(C of C) *	<input type="text" value="e.g 0989737(SJN-065)"/>
Driving License Expiry Date *	<input type="text" value="Year/Month/Day"/>

videohelp 

pdfhelp 

transform and manage


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4.3.2 Register new motorbike Page

This page will allow motorbike owners to register their new bike into the system. It is accessed by selecting register new bike link on the navigation pane in the general user page.

Please fill in the form to request adding motorbike to the D.B.M.S.

Number Plate *	<input type="text" value="e.g KMCQ 120S"/>
Engine Number *	<input type="text" value="e.g FF5DF1092793"/>
Frame Number *	<input type="text" value="e.g MD2A21BZ6DWF74"/>
Insurance Expiry Date *	<input type="text" value="Year/Month/Day"/>
Motorbike Model *	<input type="text" value="e.g BOXER,TVS,LIFAN"/>

videohelp 

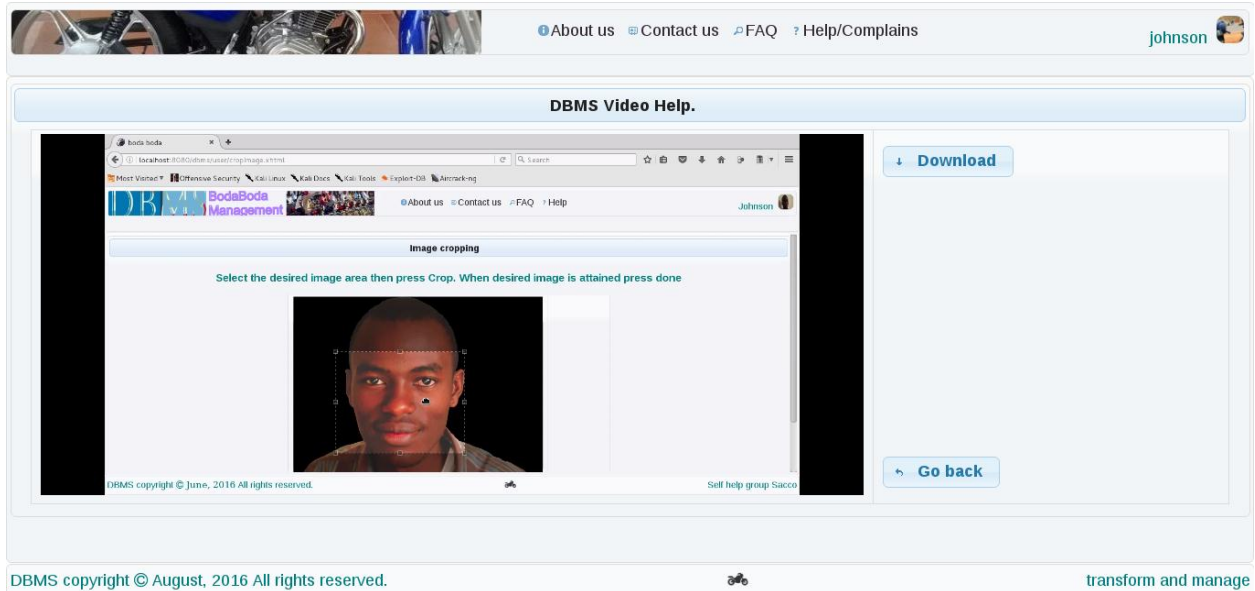
pdfhelp 

transform and manage

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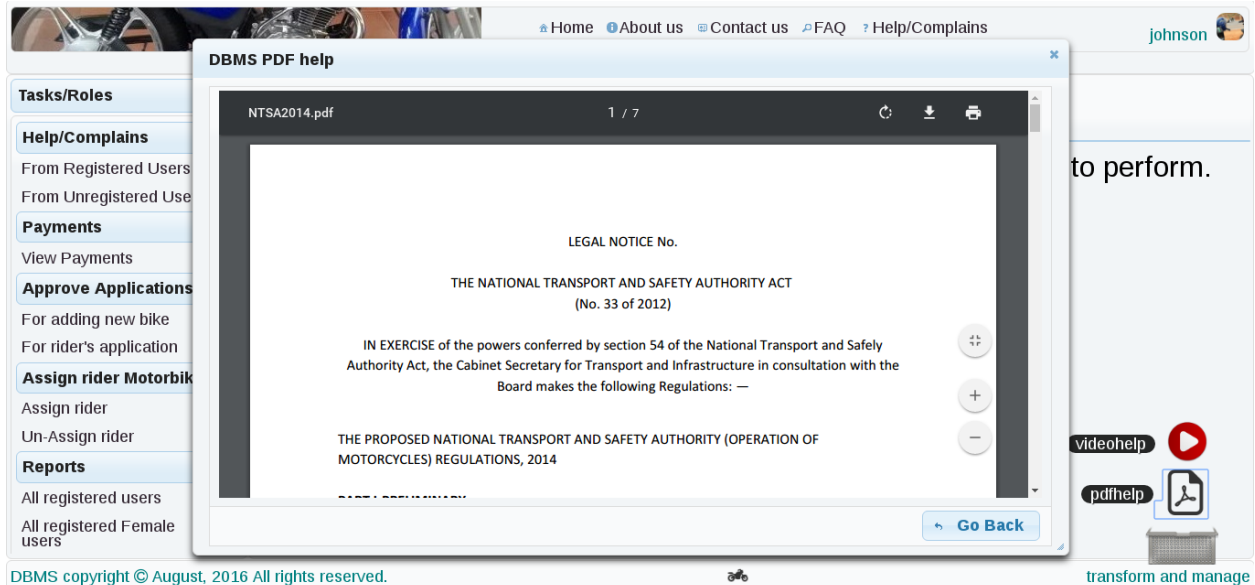
4.3.3 Video help page

This page will be used to watch tutorial video for help on challenges within that page. This page will be accessed by clicking the video help link in the bottom right.



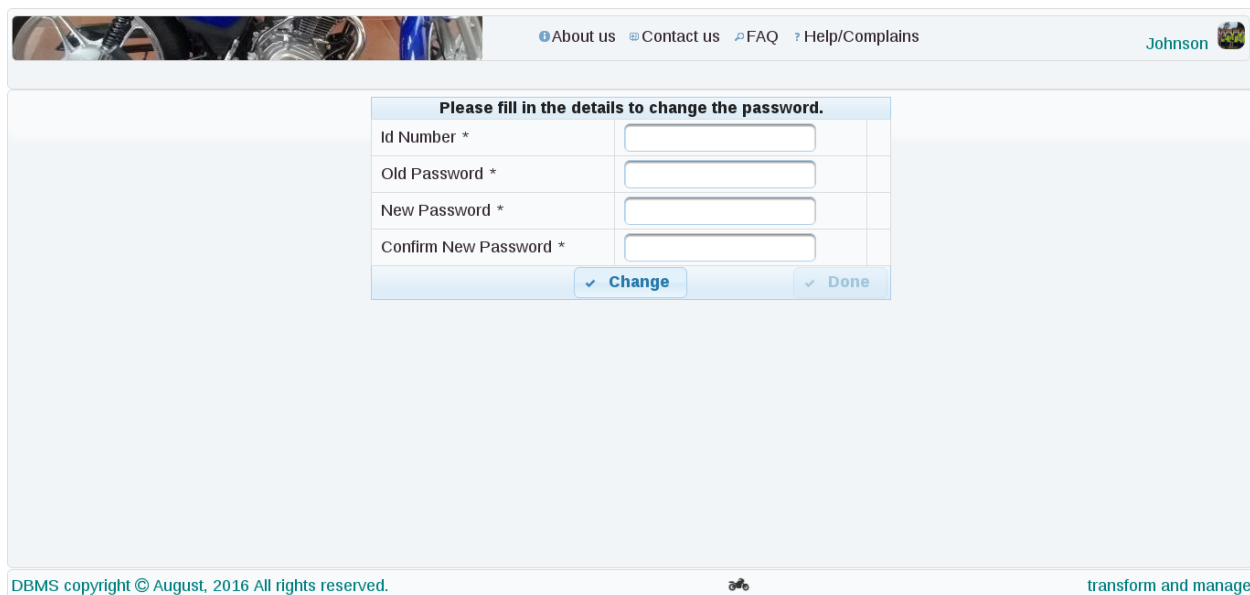
4.3.4 Pdf help page

This page will be a popup pdf reader that would be used to display the document to read for help on challenges within that page. This page will be accessed by clicking the pdf help link in the bottom right.



4.3.5 Change password

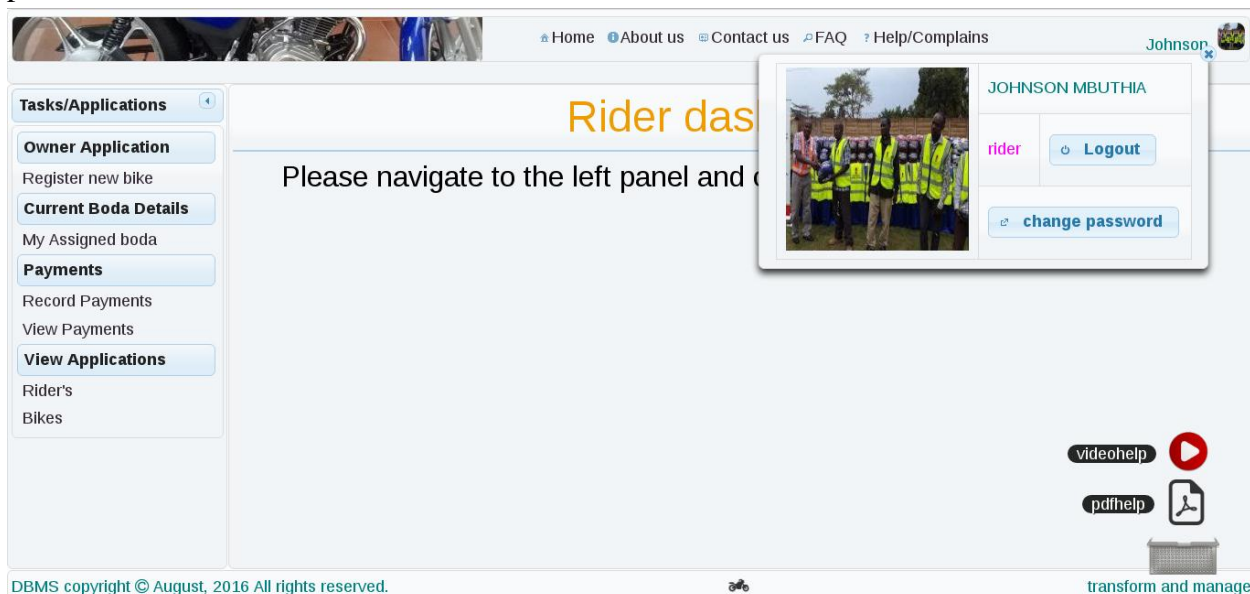
This page will be used to change the current password. This page will be accessed by clicking the image or your name in the top right.



The screenshot shows a web application interface for changing a password. At the top, there is a navigation bar with links: 'About us', 'Contact us', 'FAQ', and 'Help/Complains'. The user's name 'Johnson' is displayed in the top right corner next to a profile picture. The main content area contains a form titled 'Please fill in the details to change the password.' with four input fields: 'Id Number *', 'Old Password *', 'New Password *', and 'Confirm New Password *'. Below the fields are two buttons: 'Change' and 'Done'. The footer of the page includes the text 'DBMS copyright © August, 2016 All rights reserved.' and 'transform and manage'.

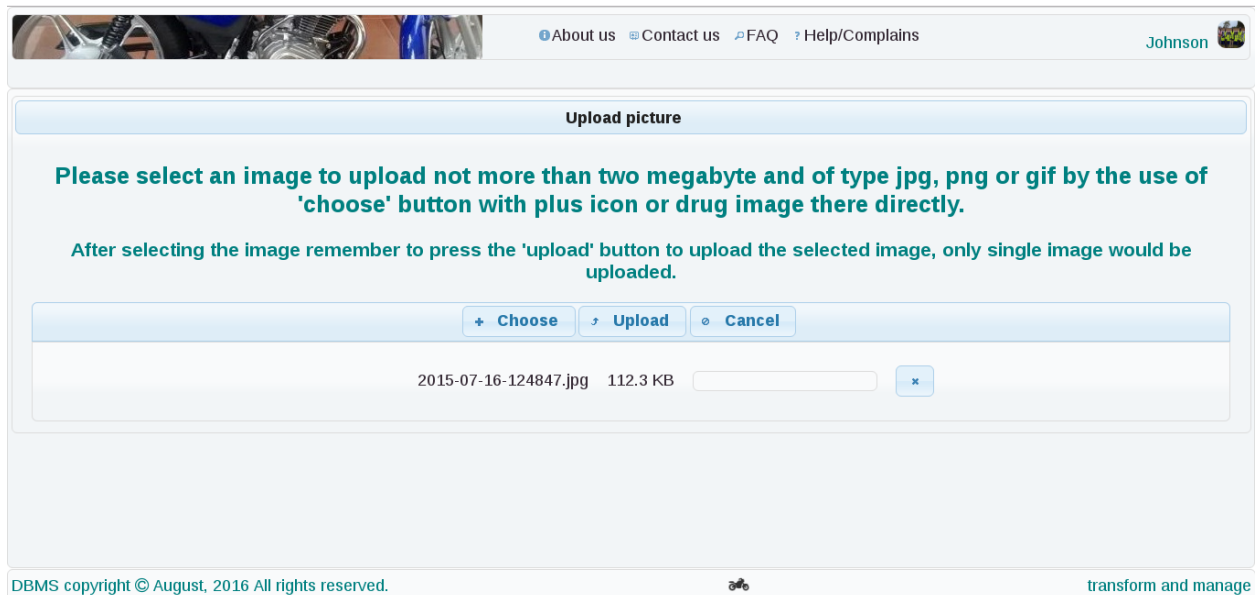
4.3.6 Change profile Picture page

This page will be used to change user profile picture to the preferred one. This page will be accessed by clicking the image or your name in the top right then clicking your current profile picture.



The screenshot shows the 'Rider dashboard' of the DBMS application. The top navigation bar includes links: 'Home', 'About us', 'Contact us', 'FAQ', and 'Help/Complains'. The user's name 'Johnson' is in the top right. A left sidebar menu lists various tasks and applications, including 'Owner Application', 'Current Boda Details', 'Payments', and 'View Applications'. The main content area displays 'Rider dashboard' and a message: 'Please navigate to the left panel and click on the profile picture'. A dropdown menu is open, showing the user's profile picture, the name 'JOHNSON MBUTHIA', the role 'rider', and buttons for 'Logout' and 'change password'. The footer contains the same copyright and management information as the previous page.

From when you will get the page to upload the picture.



Upload picture

Please select an image to upload not more than two megabyte and of type jpg, png or gif by the use of 'choose' button with plus icon or drug image there directly.

After selecting the image remember to press the 'upload' button to upload the selected image, only single image would be uploaded.

+ Choose Upload Cancel

2015-07-16-124847.jpg 112.3 KB x

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Then use the cropper to crop the desired place and click the crop button to crop the image.

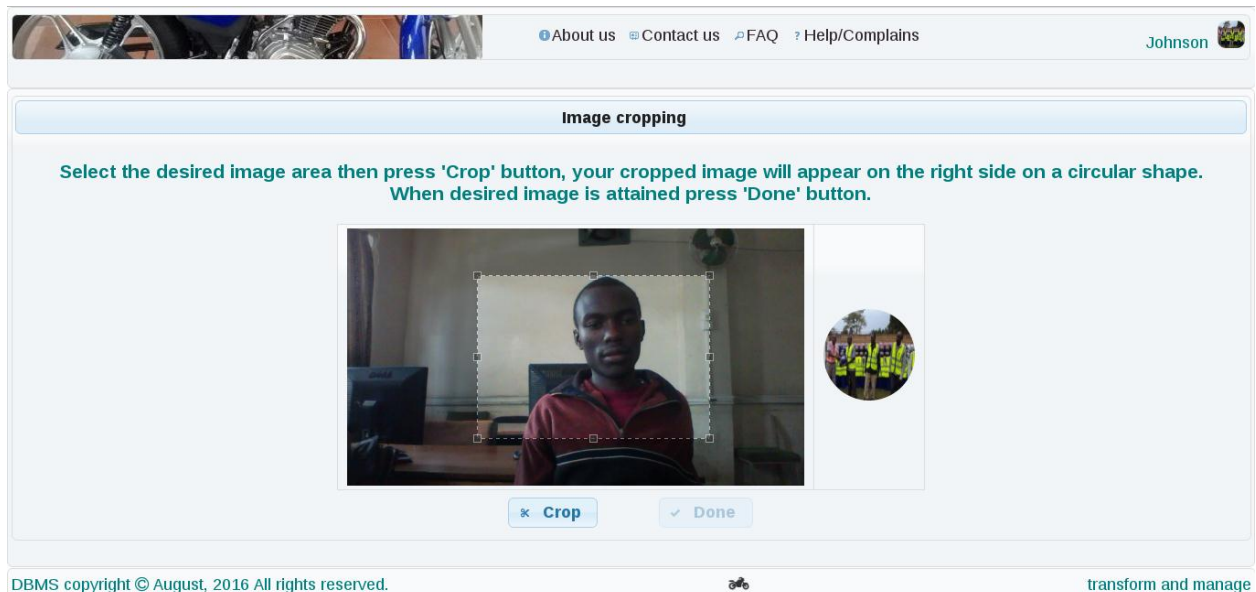


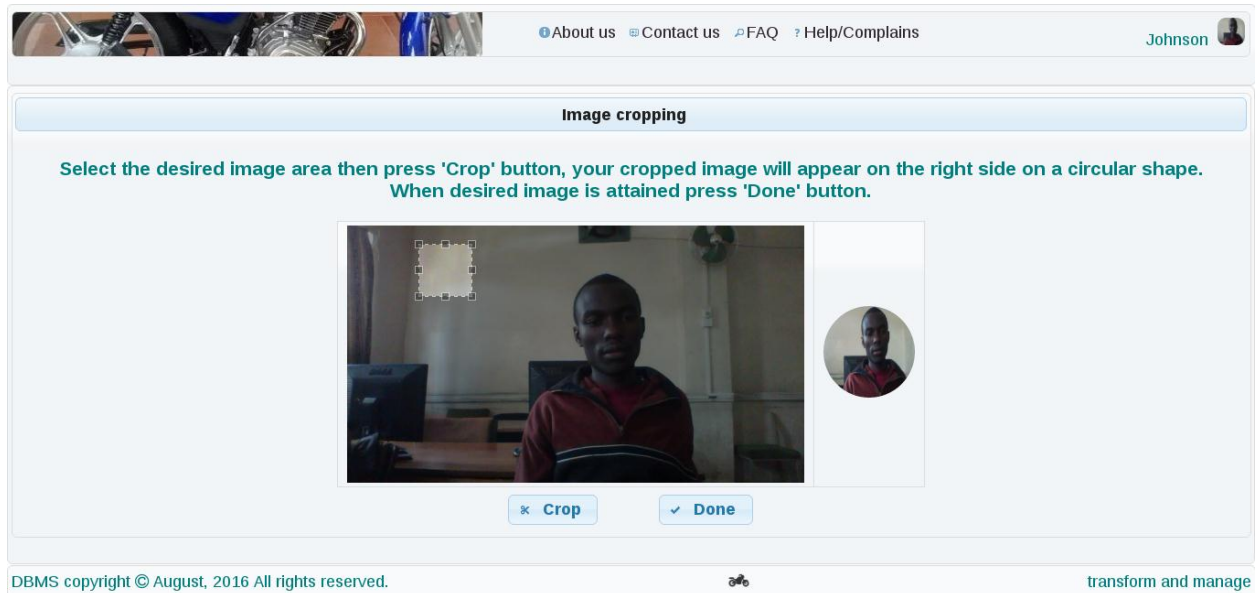
Image cropping

Select the desired image area then press 'Crop' button, your cropped image will appear on the right side on a circular shape. When desired image is attained press 'Done' button.

Crop Done

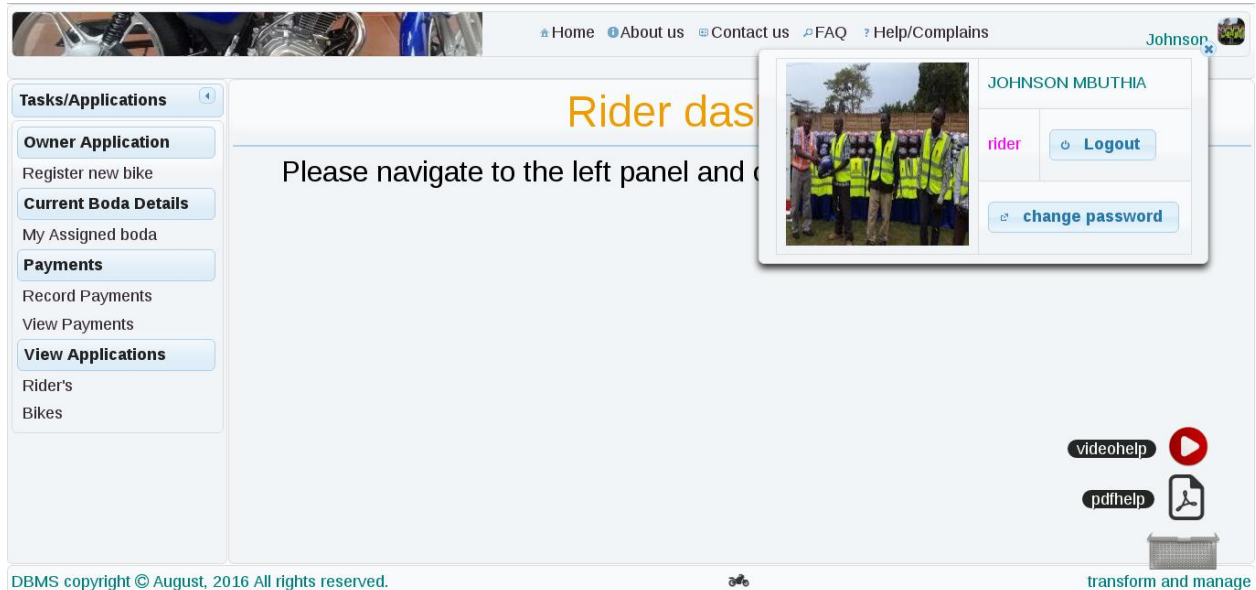
DBMS copyright © August, 2016 All rights reserved. transform and manage

After finishing cropping you click done to finish and save the picture.



4.3.7 Logout

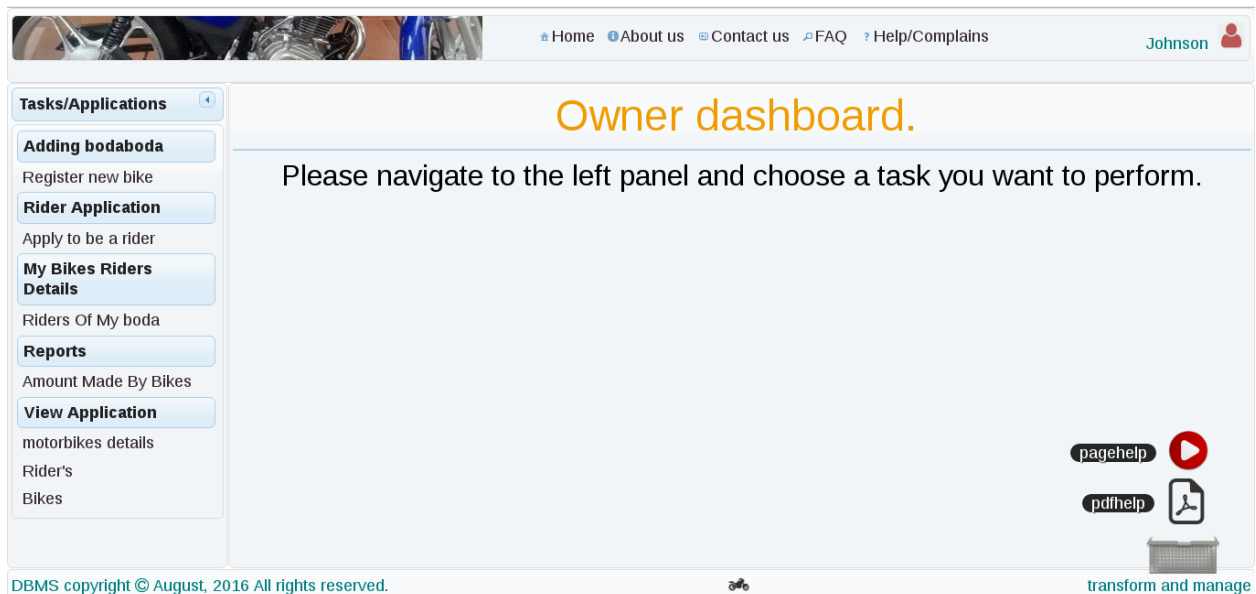
This page will be used to logout of the system. After successful logout the user will be directed to system's home page. This page will be accessed by clicking the image or your name in the top right then click logout button.



4.4 Owner Home Page

This dashboard will be used by motorbike owners to perform the following activities.

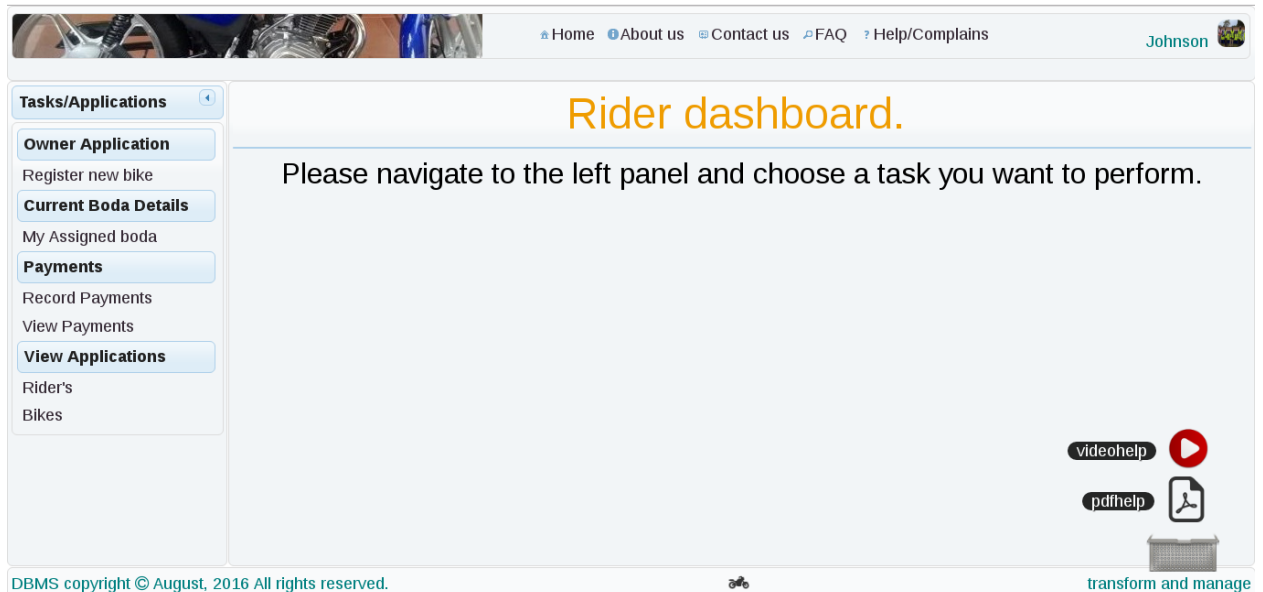
- ❖ View total amount made by motorbike.
- ❖ View all riders' details that are assigned to their motorbikes
- ❖ View all the request made to add new motorbike.
- ❖ Submit complaints to the administrator.
- ❖ View transaction for individual motorbike
- ❖ View motorbikes details including days left for insurance to expire. If he/she has purchased another insurance he/she can extend.



4.5 Rider Home Page

This dashboard will be used by motorbike owners to perform the following activities.

- ❖ View payment he/she has made for motorbike.
- ❖ View owner details of the motorbike he/she is assigned to ride.
- ❖ View all the request made to add new motorbike.
- ❖ Submit complaints to the administrator.
- ❖ Register new bike.
- ❖ View his/her driving license details including days left for them to expire. If he/she has renewed he/she can extend.

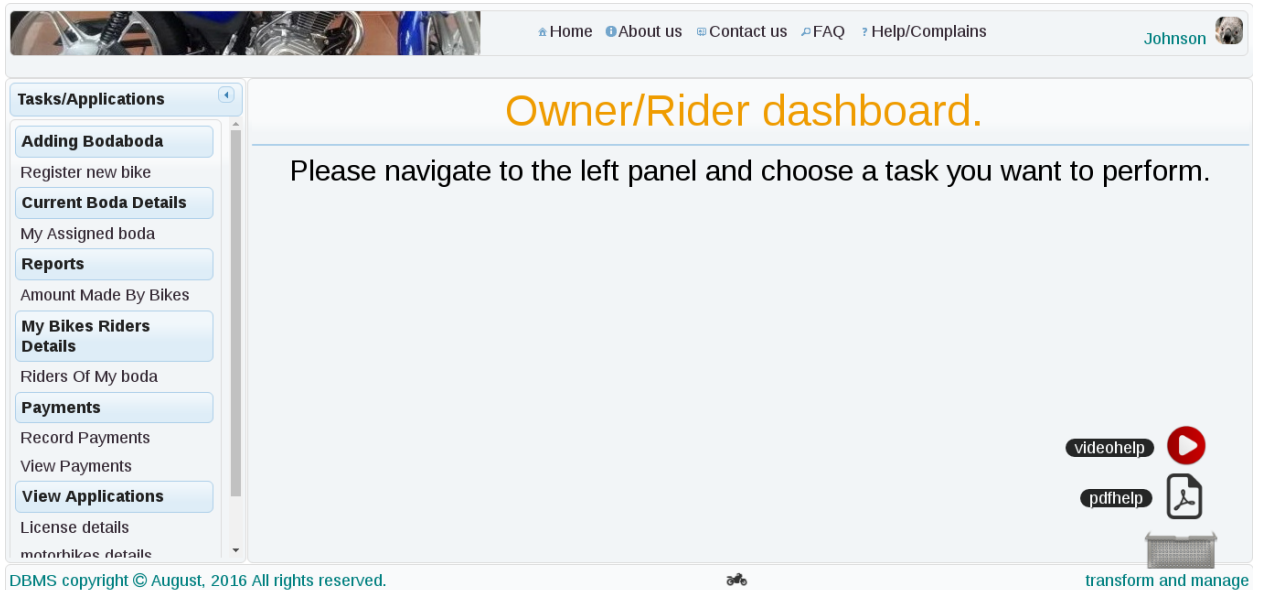


4.6 Owner/Rider Home Page

This dashboard will be used by motorbike owners who are also rider at the same time. He/she can own many motorbike but ride only one. He/she can use this page to perform the following activities.

- ❖ View payment he/she has made for motorbike.
- ❖ View owner details of the motorbike he/she is assigned to ride.
- ❖ View all the request made to add new motorbike.
- ❖ Submit complaints to the administrator.
- ❖ Register new bike.
- ❖ View his/her driving license details including days left for them to expire. If he/she has renewed he/she can extend.
- ❖ View total amount made by motorbike.
- ❖ View all riders' details that are assigned to their motorbikes
- ❖ View all the request made to add new motorbike.
- ❖ Submit complaints to the administrator.

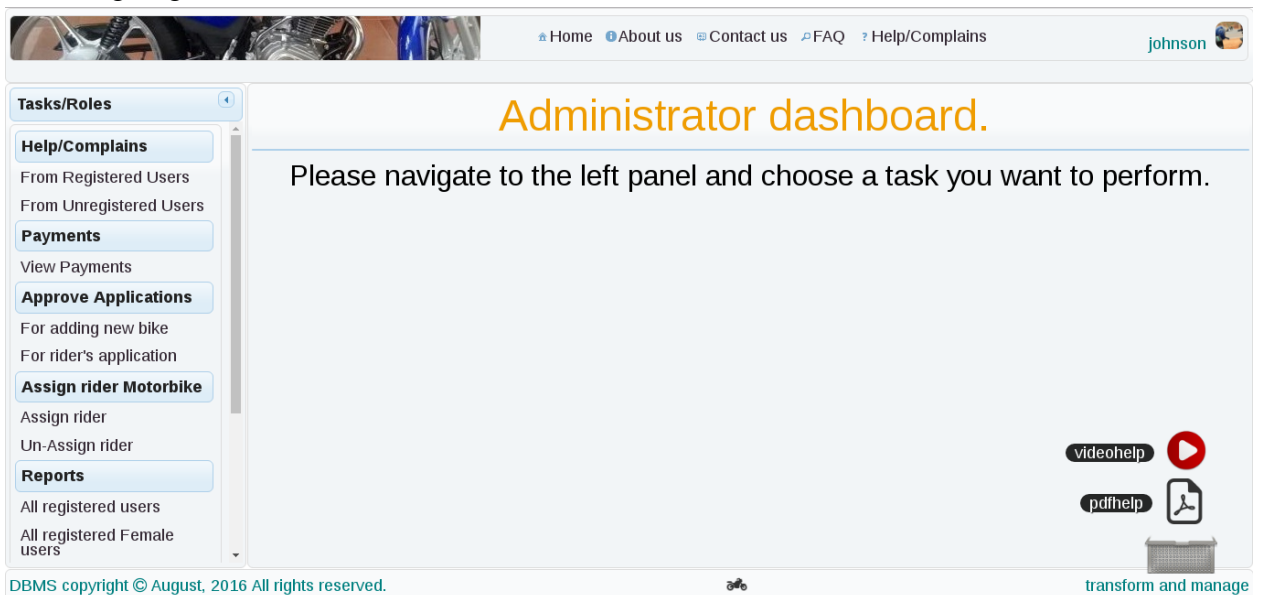
- ❖ View transaction for individual motorbike
- ❖ View motorbikes details including days left for insurance to expire. If he/she has purchased another insurance he/she can extend.



4.5 Administrator Home Page

This dashboard will be used by Administrator to perform the following activities.

- ❖ Generate reports on past events.
- ❖ Approve request to register new bike
- ❖ Approve rider applications.
- ❖ Assign rider motorbike.
- ❖ Reply to complain made by user.
- ❖ Un-Assigning rider motorbike.



4.5.1 Assigning rider Page

This page will be used by Administrator to assign registered rider to registered motorbike.

Home About us Contact us FAQ Help/Complainsjohnson

List of riders without motorbike.

(1 of 1) 1

First Name	Last Name	Id Number	License No.	License Expires On	Action
Johnson	Mbuthia	77776666	8795264	2016-09-21	Select Boda to assign

(1 of 1) 1

videohelp

pdfhelp

transform and manage

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