



# **QR Marks the Spot@MDH User Manual**

**Version 1.0**

Project Name QR Marks the Spot@MDH	Version: 1.0
User Manual	Date: 2010-01-10

## Revision History

Date	Version	Description	Author
10/01/10	1.0	Initial Draft	Siblee Islam Sriram Sundar Rajan

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## Table of Contents

1.	Introduction	4
1.1	Purpose of this document	4
1.2	Intended Audience	4
1.3	Scope	4
1.4	Definitions and acronyms	4
1.4.1	Definitions	4
1.4.2	Acronyms and abbreviations	4
1.5	References	4
1.6	Organization	5
2.	New Users	5
2.1	Home Page	5
2.2	Bike Search	5
2.3	User Registration	7
3.	Registered Users	8
3.1	User Login	8
3.2	Bike Registration	9
3.3	Profile	9
3.4	Bike History	10
3.5	If the user wants to logout, then he has to click on “Logout” option from the menu bar.	11
3.6	Check In	12
3.7	Check Out	14
3.8	Twitter	18
3.9	Forum	18
4.	Administrator	20
4.1	Login	20
4.2	Show Bikes	20
4.3	Manage Bikes :	22
4.4	Bike History	26

# 1. Introduction

## 1.1 Purpose of this document

The purpose of the document is to elaborate the functionalities available in the system and how to use these functionalities which are developed as a part of 'QR Marks the [Spot@MDH](#)' project.

## 1.2 Intended Audience

The document is intended for :

- (a) End users of the system
- (b) Customer and Supervisor to get an overview of the system
- (c) Development/Maintenance teams
- (c) People external to the project who wants to understand the behavior of the system.

## 1.3 Scope

The documents provides screen-shots of how to use every functionality available in the system. However it does not provide details about how to use the third party tools such as forum and twitter with which the system is integrated.

## 1.4 Definitions and acronyms

### 1.4.1 Definitions

Keyword	Definitions

### 1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
QR	Quick Response

## 1.5 References

Following documents found under the documents folder for 'QR Marks the [Spot@MDH](#)' project.

- 1) Requirements Definition Document
- 2) Project Design Document
- 3) The addon for firefox available in the website <http://chrispederick.com/work/user-agent-switcher/> helps to switch between user agents such as web browser and mobile phone browser.
- 4) QR Code reader for mobile is available in the website <http://reader.kaywa.com/>

5) Demo Videos for the final product are available in the project homepage under the folder 'Final Product Demo Video'.

## 1.6 Organization

The scenarios are described from the perspective of three users of the system namely:

- 1) New users
- 2) Registered Users
- 3) Administrator

## 2. New Users

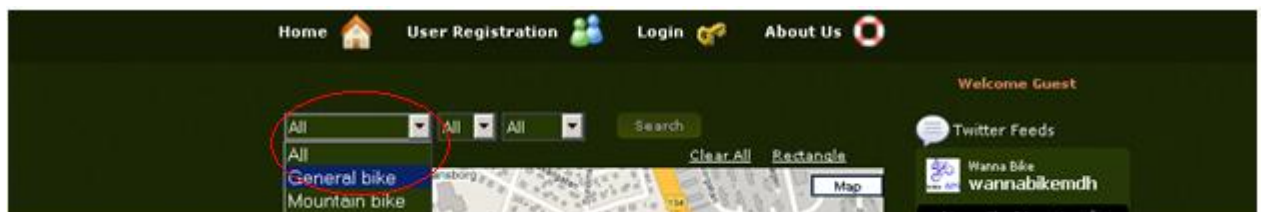
### 2.1 Home Page

For the first time, a user is a guest user. In welcome message it shows “Welcome Guest”. The URL is <http://161.53.67.200>.

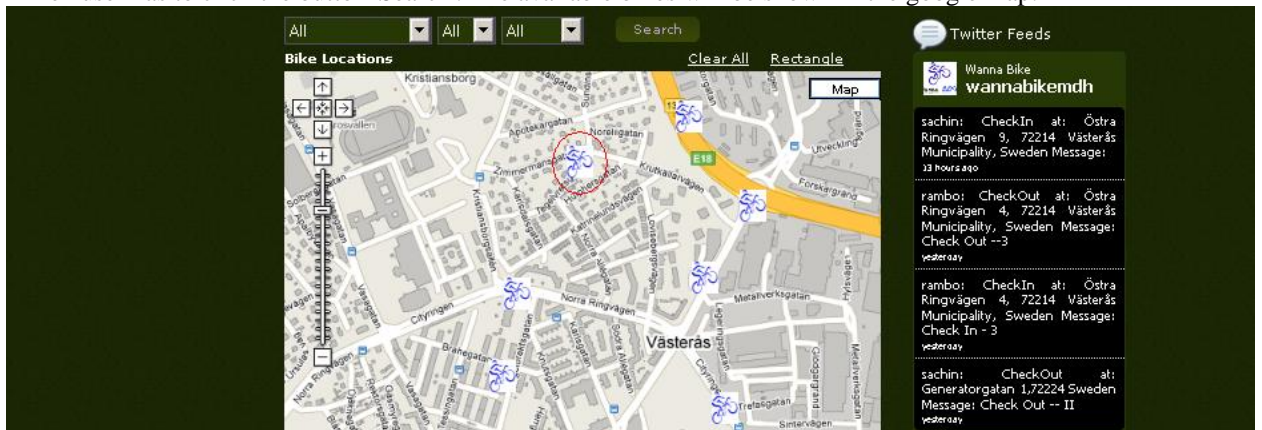


### 2.2 Bike Search

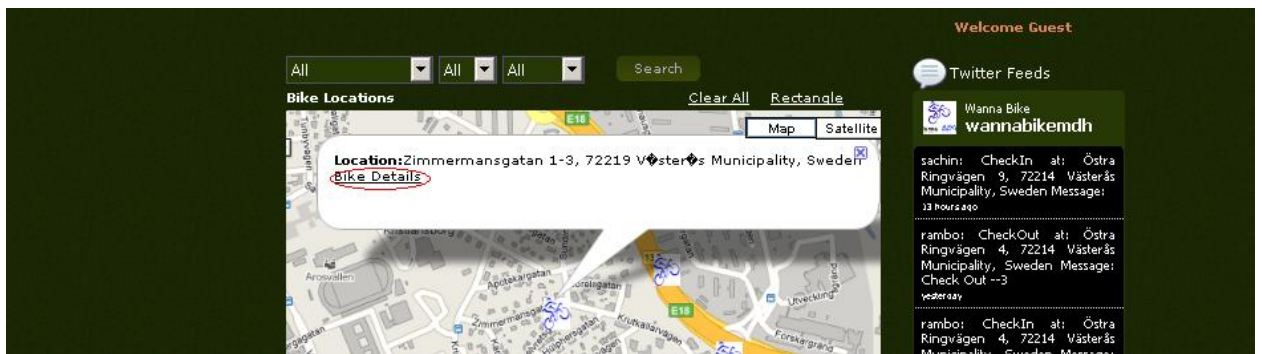
A new user can also perform bike search from the home page. In home page, there are three list boxes to select bike type, bike size and bike color. As a default all the choice boxes are set for all. User can use the list boxes to define the search criteria.



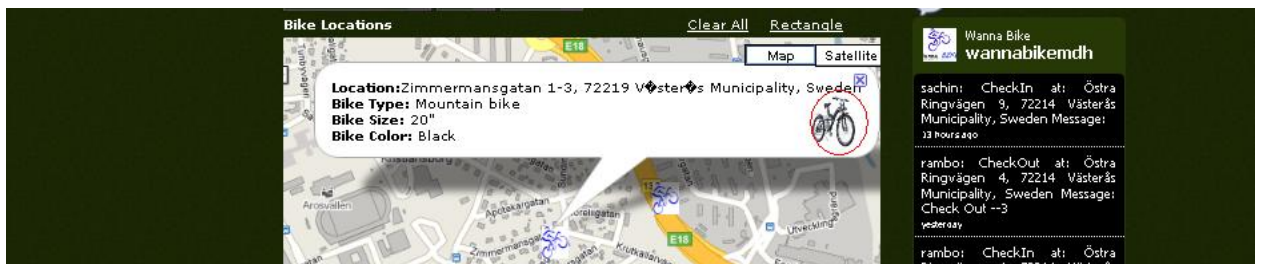
Then user has to click the button 'Search'. The available bikes will be shown in the google map.



If the user wants see the bike location, then he has to click on the bike icon of available bike in the map.



To view the details of the bike, the user to click 'Bike Details' as shown in the above figure.



If the user wants to see the full view of the bike then he has to click on the bike thumbnail image shown in the above figure. After clicking on the thumb image, he will get a full bike view like below.



### 2.3 User Registration

If the user wants to make use of the bike, it is mandatory he is a registered user in the system. To get registered, click "User Registration" from the menu.



A user registration form will be available like shown in the screen-shot. The details have to be filled up and then click 'Submit'.

User Name	rambo
Password	•••
Email Address	rambo@gmail.com
Date of Birth	13 - January - 1992
Mobile Number	0122234
Postal Code	72340
Address	gunnilbogatan 2, vasteras
Profile Picture	Browse...
Your Country	Sweden
<input type="button" value="Submit"/>	

If the registration form contains some invalid information, it will show the error corresponding error messages.

The screenshot shows the 'Add User' registration form. The 'User Name' field contains 'rambo' and has a red error message: 'User name already exist. Please try another username.'. The 'Email Address' field contains 'rambo@gmail.com' and has a red error message: 'Email id already exist'. Other fields include 'Password', 'Date of Birth' (13 January 1992), 'Mobile Number' (0122234), and 'Postal Code'. On the right, there is a 'Twitter Feeds' section with messages from 'Wanna Bike wannabikemdh'.

### 3. Registered Users

#### 3.1 User Login

Click 'Login' available in the URL <http://161.53.67.200>.



Provide the valid login credentials and then click 'Login'.

The screenshot shows the 'Login' form. It has fields for 'User Name' (containing 'rambo') and 'Password' (containing two dots). There is a 'Login' button and a 'Forget Password?' link. On the right, there is a 'Twitter Feeds' section with messages from 'Wanna Bike wannabikemdh'.

After login, the user will get the menu for registered user in menu bar and the welcome messages will get contain the username.



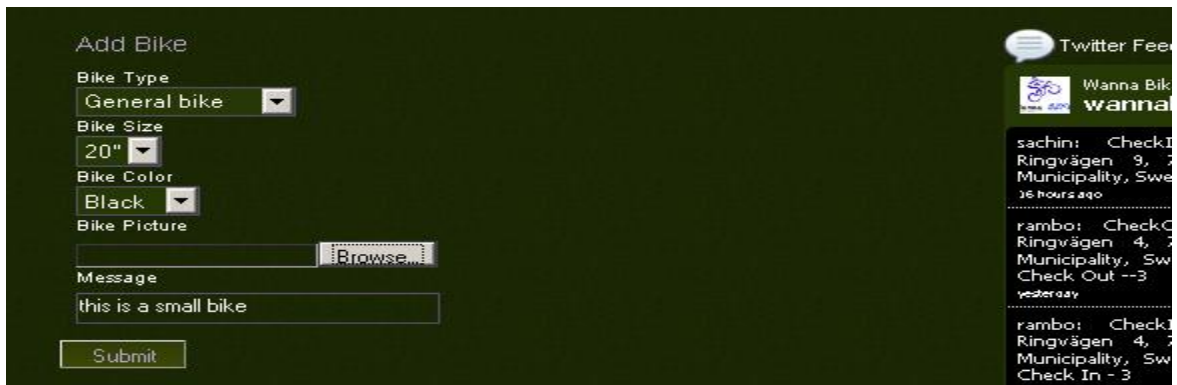


### 3.2 Bike Registration

For bike registration, the user has to click “Bike Registration” available in the menu bar.

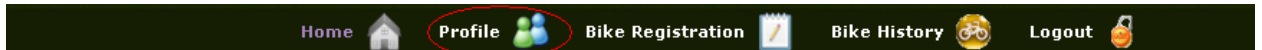


Bike registration form will be available as shown below. He has to provide all the information of bike and then click the button 'Submit'.



### 3.3 Profile

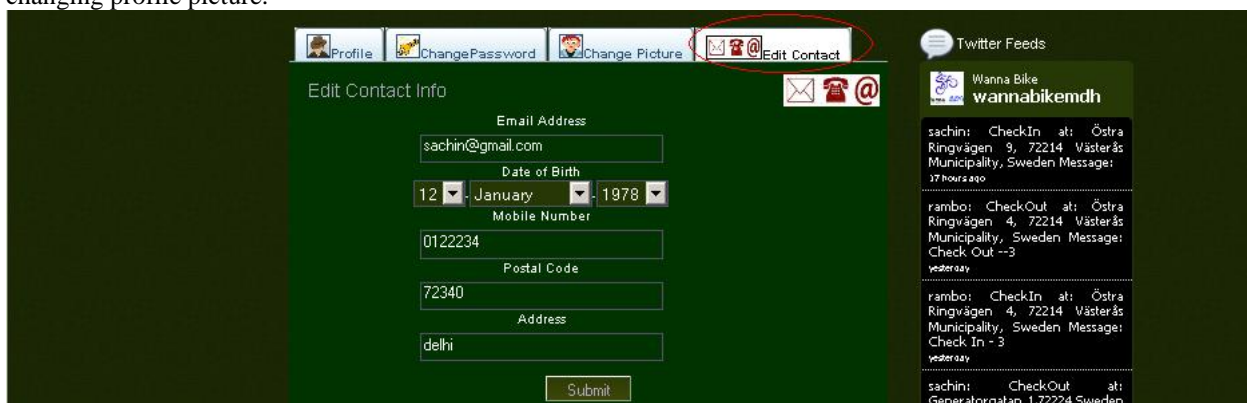
User can also view his profile by clicking “Profile” available in the menu bar.



A new page containing tab pages is displayed where he can also update his profile picture, password and contact information.

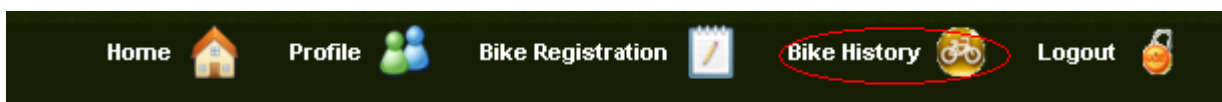


User can switch between the tab pages. As an example if he wants to edit his contact information, he has to click “Edit Contact” tab page . The contact information is displayed for editing and after modification click on 'Submit'. Similar procedures should be followed for both changing password and changing profile picture.



### 3.4 Bike History

The user can also have the bike history according to his registered bike as well as bike used by him by clicking “Bike History” available in the menu bar.



The bikes registered by the user are available in the list box. User can view the complete bike history such as who had taken the bike, the starting point , the destination point , time-frame by selecting the corresponding bike id.



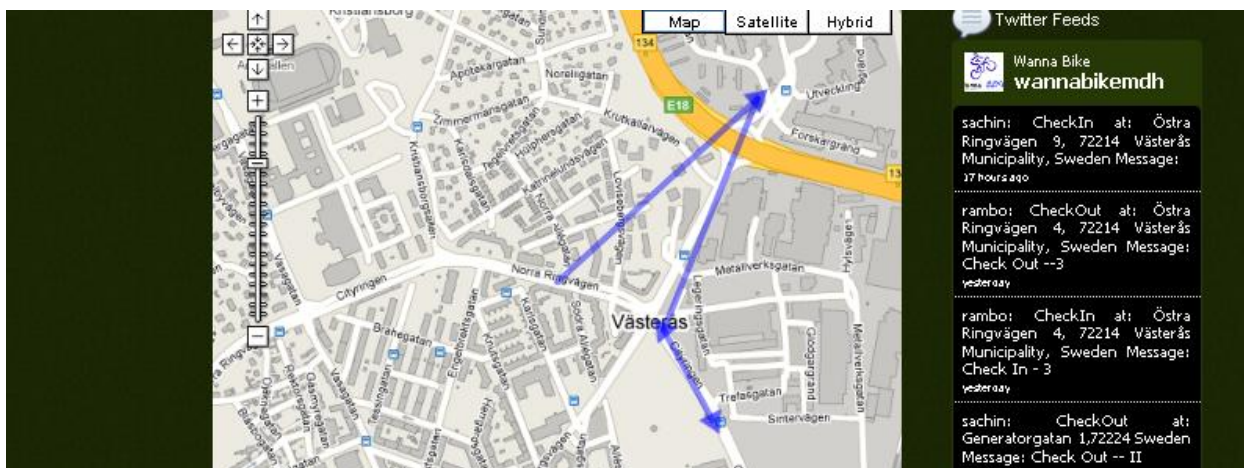
He can view his own history i.e the bikes he had used clicking “My history” link.



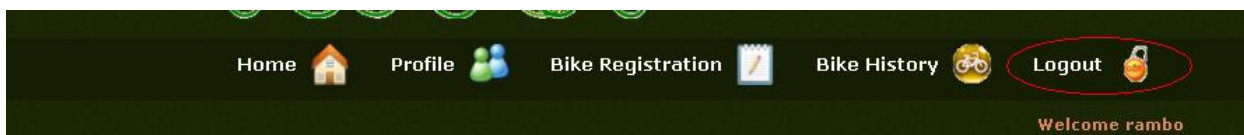
In both the cases, if the user wants to see the path graphically in Google map he has to click on the link “GMap View”.



After clicking on the link he will get the desire route path view like the below figure.



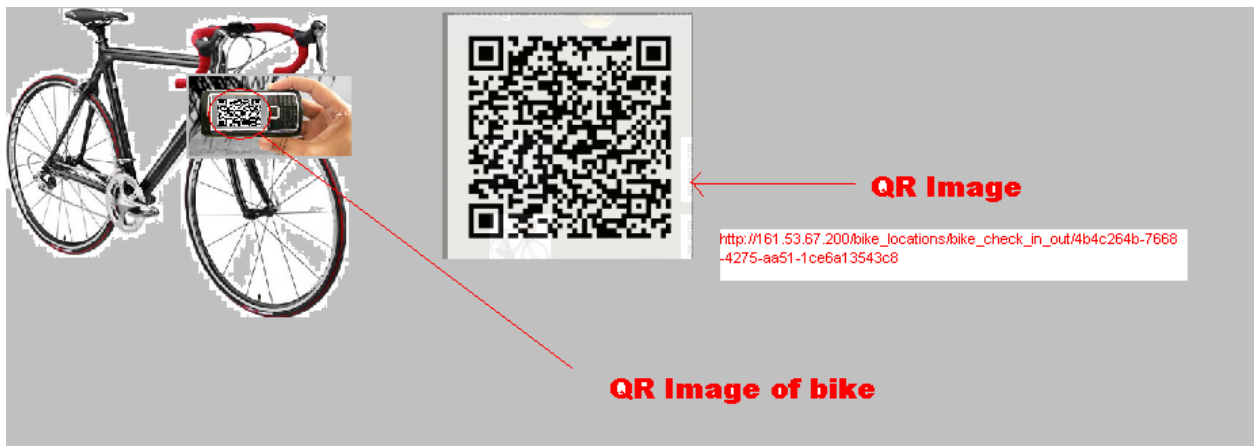
### 3.5 If the user wants to logout, then he has to click on “Logout” option from the menu bar.



### 3.6 Check In

A registered user can use a bike now. First he will search the bikes that are available. The results are displayed graphically on the Google map. With use of a mobile phone with camera and QR code decoder, the user will be directed to the check in page.

If mobile phone is not available, user agent can be installed in the mozilla firefox for simulation. Refer the Acceptance test plan document for more detailed information

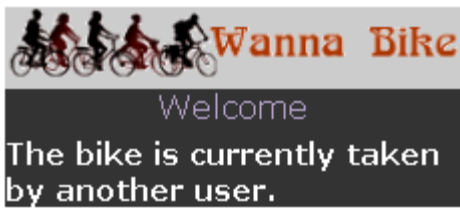


The QR image is embedded with an URL such as [http://161.53.67.200/bike\\_locations/bike\\_check\\_in\\_out/4b4c264b-7668-4275-aa51-1ce6a13543c8](http://161.53.67.200/bike_locations/bike_check_in_out/4b4c264b-7668-4275-aa51-1ce6a13543c8)

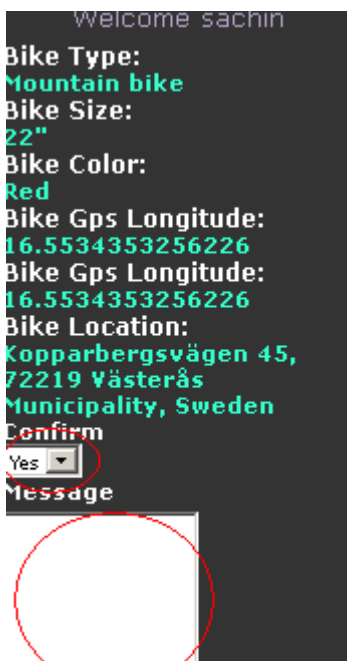
Provide the valid login credentials .

The screenshot shows the login interface for 'Wanna Bike'. At the top, there is a logo with silhouettes of people riding bikes and the text 'Wanna Bike'. Below the logo, the word 'Welcome' is displayed. The main part of the page is a purple box containing a 'Login' section. This section includes a 'User Name' field with the text 'rambo' and a 'Password' field with five dots. Below the password field is a 'Login' button. At the bottom of the purple box, there is a link for 'Forget Password?'.

If the bike is already taken by another user , an error message is displayed .



Once the log-in is successful and the bike is available, the following page is displayed. The user has to provide the check in message or comments and set Confirm option as Yes. The check in message will be available in the forum and twitter.



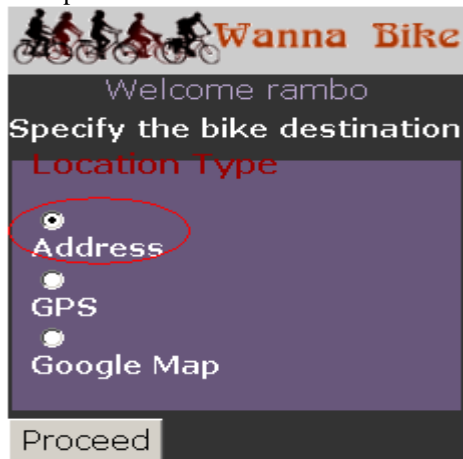
The combination lock key required to unlock the bike is available.



### 3.7 Check Out

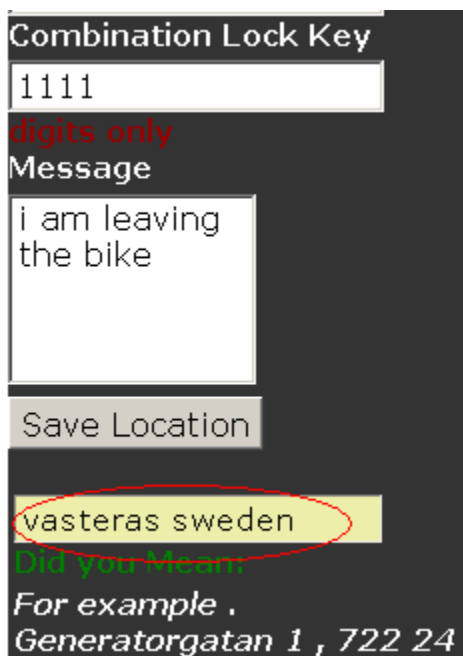
Similarly, at the time of check out user have to follow the same procedure up to successful login of 3.6. Then he can choose any of the three options shown below.

For option one: Address

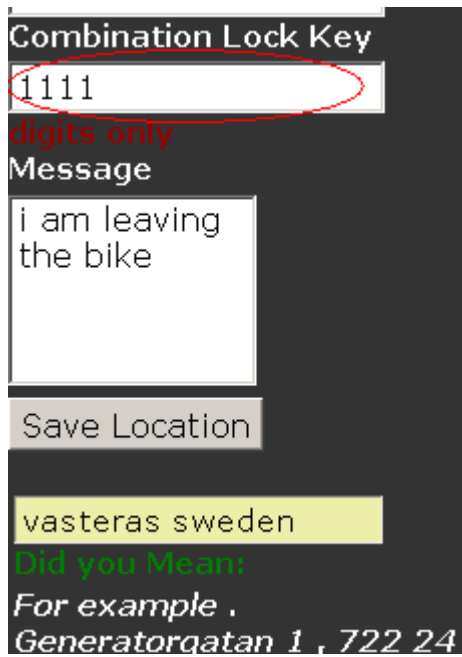


The screenshot shows the 'Wanna Bike' app interface. At the top, there is a logo with three cyclists and the text 'Wanna Bike'. Below the logo, it says 'Welcome rambo'. The main heading is 'Specify the bike destination'. Underneath, there is a section titled 'Location Type' with three radio button options: 'Address', 'GPS', and 'Google Map'. The 'Address' option is selected and circled in red. At the bottom, there is a 'Proceed' button.

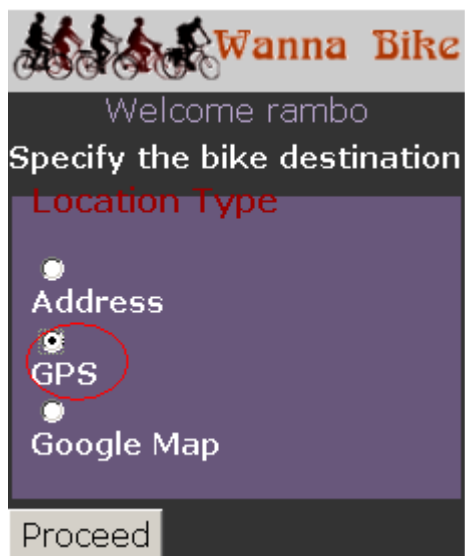
He has to provide a valid and specific address where the bike is left and click 'Check Address', new combination lock key and lock the bike with that code and check out message/comment. Click on 'Submit' Button.



The screenshot shows the 'Combination Lock Key' screen. It has a text input field containing '1111'. Below it, the text 'digits only' is displayed in red. There is a 'Message' section with a text input field containing 'i am leaving the bike'. Below the message field is a 'Save Location' button. At the bottom, there is a text input field containing 'vasteras sweden', which is circled in red. Below this field, the text 'Did you Mean' is displayed in green. At the very bottom, there is a note: 'For example . Generatorgatan 1 , 722 24'.



For option 2: GPS Co-ordinates



The user has to provide the GPS co-ordinates in terms of longitude or latitude of the place. Click 'Check Co-ordinates' to validate the entered values. Then the combination lock key and check out messages should be provided. Finally click 'Submit'.

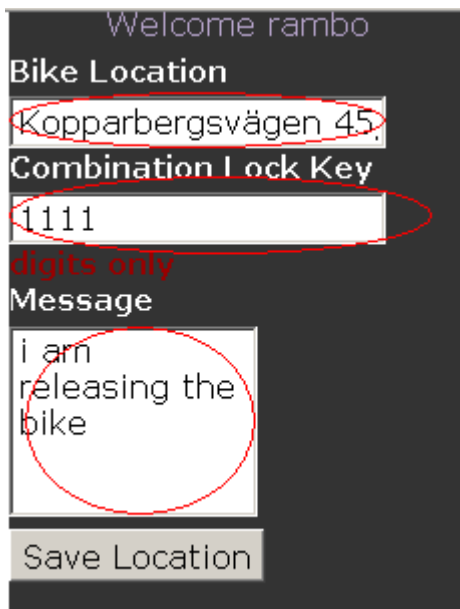
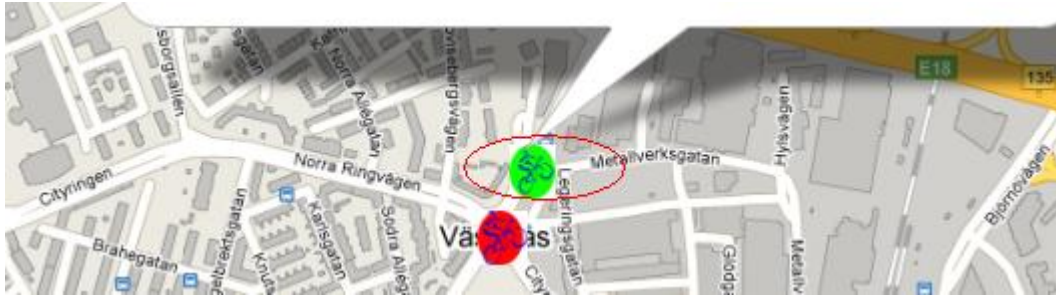
The screenshot shows a form with a dark background. At the top, there are three yellow input boxes for longitude, grouped by a red oval. Below them are the labels 'Longitude', 'Degrees', 'Minutes', and 'Seconds'. Another set of three yellow input boxes is below. The text 'OR' is centered. Below that, there are two yellow input boxes, the first labeled 'Latitude' and the second 'Longitude', both circled in red. At the bottom, there is a light blue button labeled 'Check Co-ordinates' and a grey button labeled 'Reset'.

Option three: Google Maps

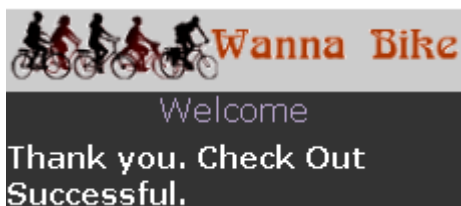
The screenshot shows the 'Wanna Bike' app interface. At the top, there is a logo with three cyclists and the text 'Wanna Bike'. Below that is a dark grey bar with the text 'Welcome rambo'. The main title is 'Specify the bike destination'. Below the title is a section titled 'Location Type' in red. There are three radio button options: 'Address', 'GPS', and 'Google Map'. The 'Google Map' option is selected. At the bottom, there is a grey button labeled 'Proceed'.



From Google map, he will click the location where he is leaving the bike and new key and check out comments as shown.

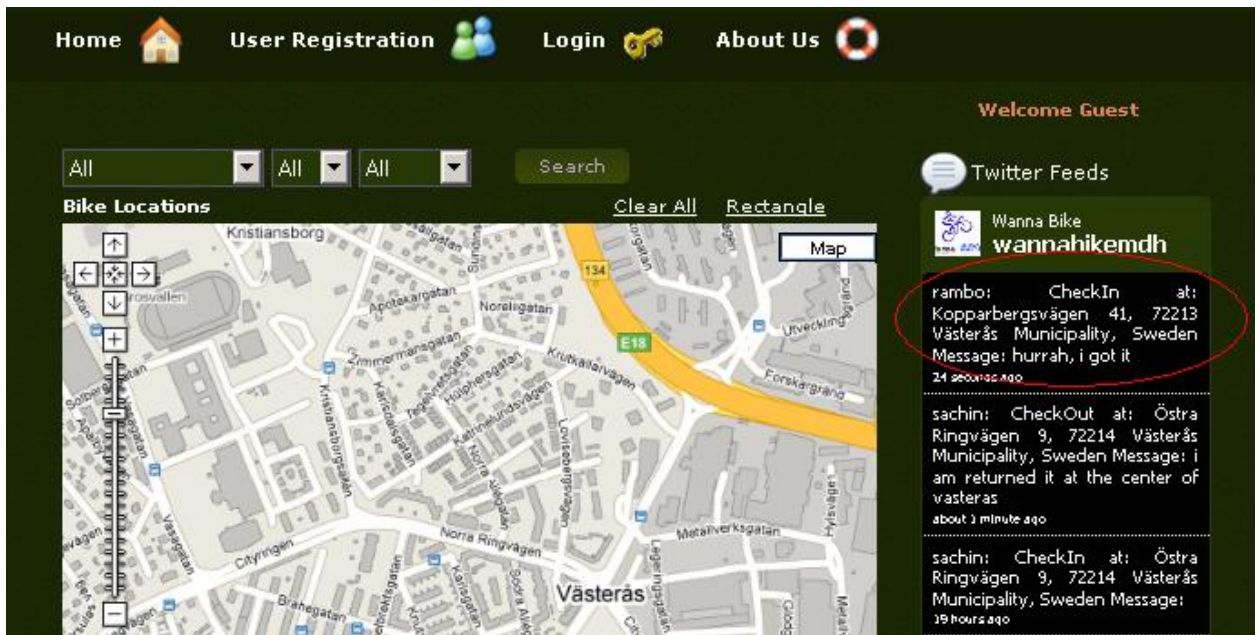


After successful check out he will get the following message.



### 3.8 Twitter

Latest check in and check out comments given by the user will be displayed as news feeds from twitter in the home page as follow.

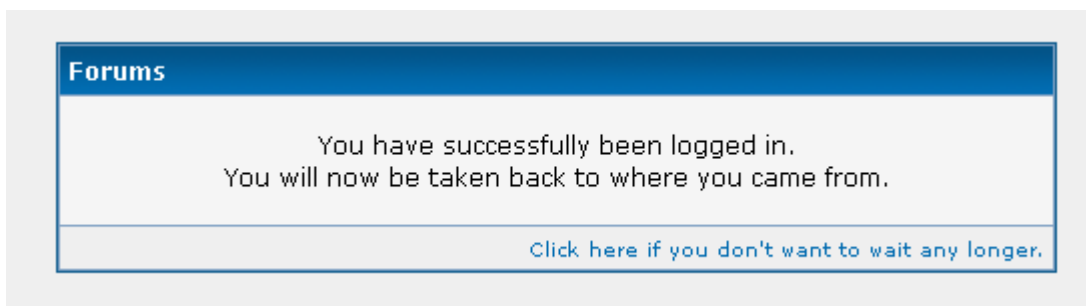


### 3.9 Forum

When a user is registered, simultaneously, he or she also is also registered in forum. Also when the user logs in the website, he is also automatically logged into the forum. In the bottom end of the site, there is a link 'Forum' to enter into the forum.



If the log in is successful , the following message will be displayed.



To access the check in and check out messages which are created as threads and posts, the user has to select the Forum 'Bikes at Vasteras'.



Search Member List Calendar

Welcome back, rambo. You last visited: Yesterday, 03:10 AM (User CP — Log Out) Current time: 01-13-2010, 03:53  
 View New Posts | View Today's Posts | Private Messages (Unread 0, Total 0) Open Buddy L

Forums

My Category			
Forum	Threads	Posts	Last Post
<a href="#">Bikes at Vasteras</a> Discussion related to all bikes at Vasteras	6	16	<a href="#">VAS-BIKE-0017</a> Today 03:48

My Category			
Forum	Threads	Posts	Last Post
<a href="#">Bikes at Vasteras</a> Discussion related to all bikes at Vasteras	6	16	<a href="#">VAS-BIKE-0017</a> Today 03:48

Click on the Thread of the corresponding bike ID.

Bikes at Vasteras					Mark this forum read	Subscribe to this forum
Thread / Author	Replies	Views	Rating	Last Post		
<a href="#">VAS-BIKE-00017</a> rambo	0	5	★★★★★	Today 03:48 Last Post: rambo		
<a href="#">VAS-BIKE-00016</a> rocky	0	2	★★★★★	Yesterday 02:21 Last Post: rocky		
<a href="#">VAS-BIKE-00015</a> Akram	0	1	★★★★★	Yesterday 02:21 Last Post: Akram		
<a href="#">VAS-BIKE-00014</a> murali	0	1	★★★★★	Yesterday 02:21 Last Post: murali		
<a href="#">VAS-BIKE-00013</a> sachin	0	1	★★★★★	Yesterday 02:21 Last Post: sachin		
<a href="#">VAS-BIKE-00012</a> rocky	0	2	★★★★★	Yesterday 02:21 Last Post: rocky		

Sort by: Last Post Order: Descending From: Today

The various posts that are created.

**rambo** Posts: 0  
Newbie Joined: Jan : Reputation: Warning Lev

**VAS-BIKE-00017**  
Bike in good condition

EMAIL FIND EDIT REPLY

---

Yesterday, 02:53 AM

**rambo** Posts: 0  
Newbie Joined: Jan : Reputation: Warning Lev

**RE:VAS-BIKE-00017**  
rambo: CheckIn at: Cityringen 30, 72215 Västerås Municipality, Sweden Message: Check-In--1

EMAIL FIND EDIT REPLY

## 4. Administrator

### 4.1 Login

The administrator can login by providing valid credentials( Refer Section 3.1). Then the welcome message will show as “Welcome Administrator”.



### 4.2 Show Bikes

Administrator can view the details of all registered bikes by clicking “Show Bikes” available in the menu bar.



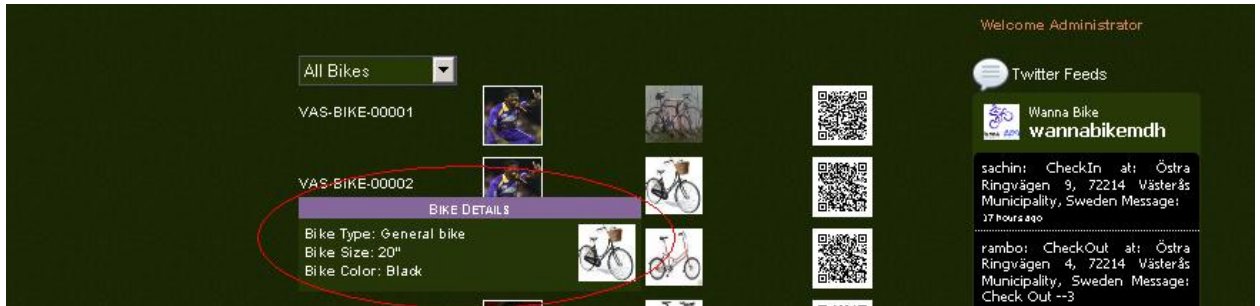
After the click click



Administrator can see bikes according to bike type.



If he moves the mouse over the bike title, he will get a short description of the bike.



If he moves the mouse over the picture of the user who has registered the bike, he will get a short description of the user.



If he clicks on the bike picture, then he will get the full picture of the bike.



After clicking.

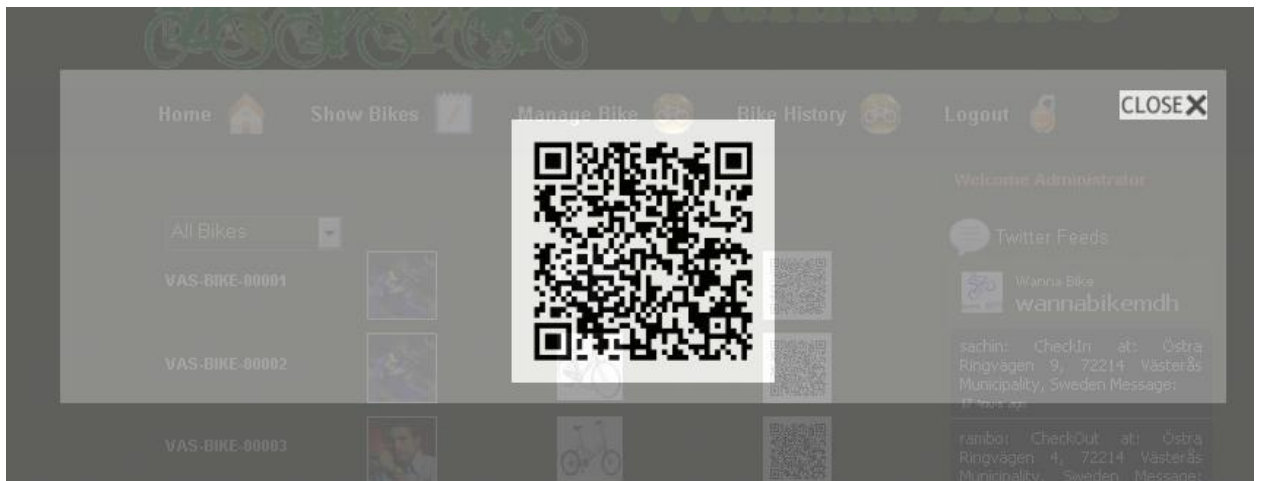




The corresponding QR image of the bike is also shown. This is auto generated once bike registration is complete.

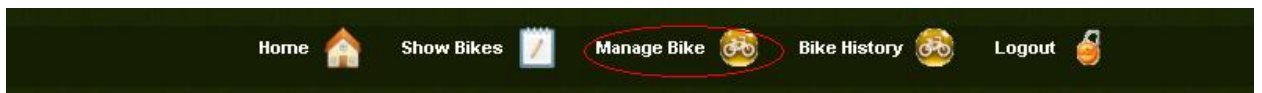


When the QR image is clicked.

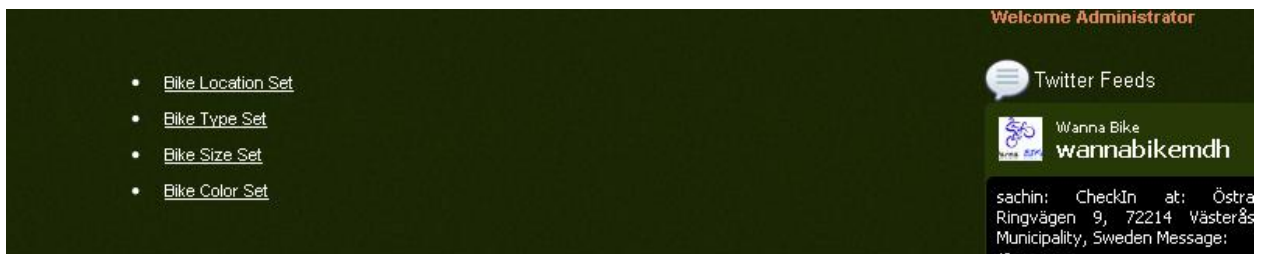


#### 4.3 Manage Bikes :

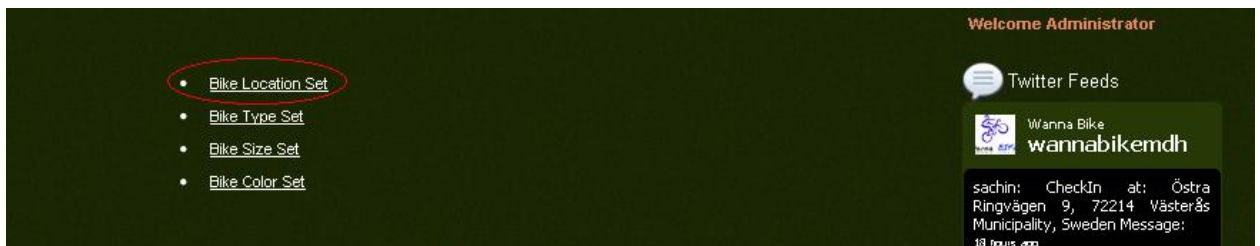
Administrator can manage the bikes by clicking on “Manage Bike” available in the menu bar.



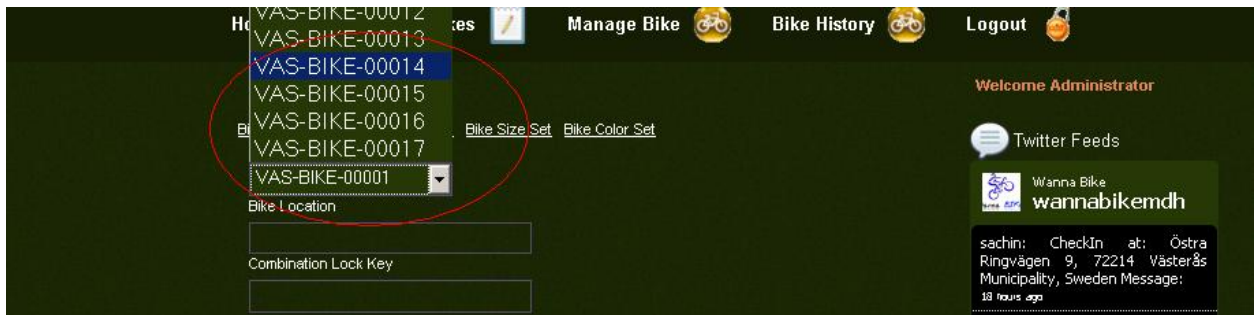
The various options to manage the bikes are displayed.



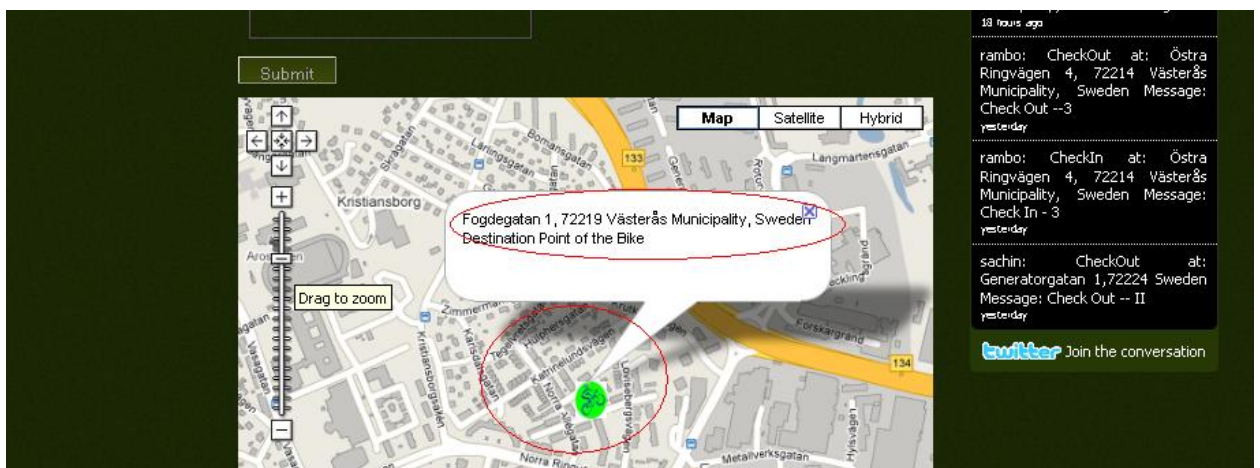
To set the bike location, administrator user has to click“Bike Location Set”.



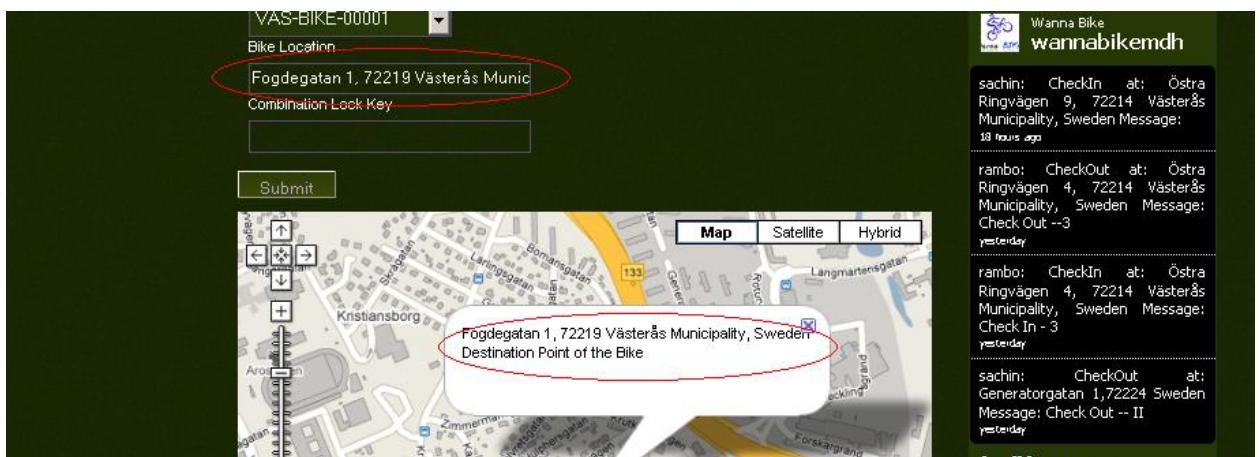
He has to chose the bike from the list box.



From Google map he has to set the location of the bike.



Click on the bike icon and the address will be automatically populated in the bike location text box.



Finally he has to set the lock key for the bike and click 'Submit'.

The screenshot shows a web form titled "Bike Location". The "Bike Location" field contains "Fogdegatan 1, 72219 Västerås Munic". The "Combination Lock Key" field contains "1111", which is circled in red. Below the form is a "Submit" button and a map showing the location. On the right, there is a sidebar with a "wannabikemdh" logo and a list of bike check-in and check-out records.

To set the bike types, he has to click on "Bike Type Set" from the options.

The screenshot shows a sidebar menu with four options: "Bike Location Set", "Bike Type Set", "Bike Size Set", and "Bike Color Set". The "Bike Type Set" option is circled in red. To the right, there is a "Twitter Feeds" section with a "Wanna Bike wannabikemdh" logo and a list of bike check-in and check-out records.

The administrator will get the details of the bike types as below.

The screenshot shows the "BikeTypes" page. At the top, there is a navigation bar with "Home", "Show Bikes", "Manage Bike", "Bike History", and "Logout". Below the navigation bar, there is a "Welcome Administrator" message and a "Twitter Feeds" section. The main content area shows a table of bike types and a "New Bike Type" link.

Type Name	Actions
General bike	<a href="#">Edit</a> <a href="#">Delete</a>
Mountain bike	<a href="#">Edit</a> <a href="#">Delete</a>
Racing Bike	<a href="#">Edit</a> <a href="#">Delete</a>

<< previous | next >>

- [New BikeType](#)

If he wants to add a new bike type then he has to click on "New Bike Type".

The screenshot shows the "BikeTypes" page, similar to the previous one, but with the "New Bike Type" link circled in red. The table of bike types and the navigation bar are also visible.

Type Name	Actions
General bike	<a href="#">Edit</a> <a href="#">Delete</a>
Mountain bike	<a href="#">Edit</a> <a href="#">Delete</a>
Racing Bike	<a href="#">Edit</a> <a href="#">Delete</a>

<< previous | next >>

- [New BikeType](#)



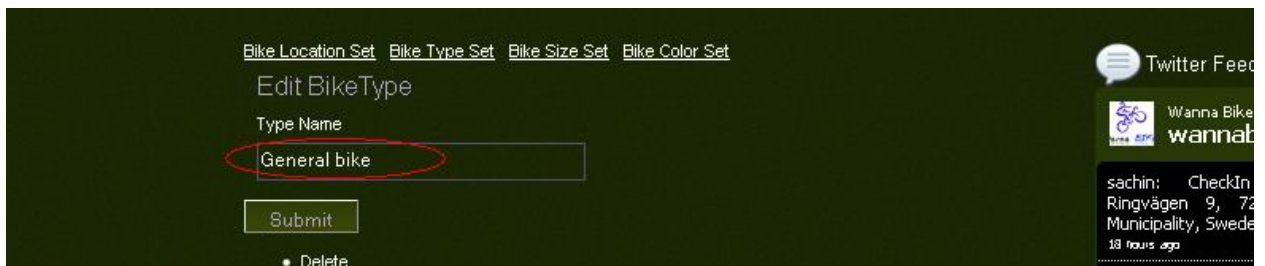
He has to mention the bike type name and click 'Submit'.



If he wants to edit the bike type then he has to click on the edit link from the bike type details.



Then he has to give new type name and click on submit.



If he wants to delete any type name then he has to click on the delete link from the bike type details.



Similarly, he can manage bike size and bike color.

## 4.4 Bike History

The administrator user can see all the bike history by clicking on the “Bike History” available in the menu bar.



He can see the bike history by choosing bike based on the bike ID and the user from the list box. He can also see the route path by clicking on “GMap View” link.



The screenshot shows the 'Bike History' page. At the top, there are two dropdown menus: 'Bike Title: All' and 'User: All', both circled in red. To the right of these is a 'GMap View' link, also circled in red. Below the filters is a table with the following data:

Bike Title	User	Check In Address	Check In Time	Check Out Address	Check Out Time
VAS-BIKE-00001	sachin	Östra Ringvägen 4, 72214 Västerås Municipality, Sweden	2010-01-12 07:37:32		
VAS-BIKE-00011	sachin	Östra Ringvägen 9, 72214 Västerås Municipality, Sweden	2010-01-12 08:12:42	Utanbygatan 6F, 72214 Västerås Municipality, Sweden	2010-01-12 08:13:17

On the right side of the page, there is a 'Twitter Feeds' section with a 'Wanna Bike wannabikemdh' profile. It shows two tweets: one from 'sachin' about a check-in and one from 'rambo' about a check-out.