**Urban Bike Real-Time Dashboard Application-** **User Manual**

**Release 1.0**July 01, 2024

**Authors**

Sangeetha Ramesh

Pradyumna Shivanandaiah

**Contact Information:**

Github

**Document Purpose**

This document provides comprehensive information about the Urban Bike Real-Time Dashboard Application, including user guides, deployment instructions, and technical details.

Table of Contents

[**Introduction** 3](#_Toc171289559)

[**Getting Started** 3](#_Toc171289560)

[**Accessing the Application** 3](#_Toc171289561)

[**User Interface Overview** 3](#_Toc171289562)

[**Using the Dashboard** 3](#_Toc171289563)

[**Features:** 3](#_Toc171289564)

[**Managing Data** 4](#_Toc171289565)

[**Adding Data** 4](#_Toc171289566)

[**Editing Data** 4](#_Toc171289567)

[**Deleting Data** 4](#_Toc171289568)

[**Contacting Developers** 4](#_Toc171289569)

[**Sending a Message** 4](#_Toc171289570)

[**About the Project** 4](#_Toc171289571)

[**Viewing Project Information** 5](#_Toc171289572)

[**User Roles and Permissions** 5](#_Toc171289573)

[**Troubleshooting and FAQs** 6](#_Toc171289574)

[**Common Issues** 6](#_Toc171289575)

[**Frequently Asked Questions** 6](#_Toc171289576)

**Introduction**

Welcome to the Dublin Bike Real-Time Dashboard Application! This application provides a real-time visualization of Dublin bike data, allowing users to manage station data and contact developers. This user manual will guide you through the various features and functionalities of the application.

**Getting Started**

**Accessing the Application**

To access the Dublin Bike Real-Time Dashboard Application, navigate to the following URL in your web browser:

<http://dwgcocg.144.24.144.132.sslip.io/>

Ensure you have a stable internet connection for the best experience.

**User Interface Overview**

The application consists of the following main sections:

1. **Dashboard**: Displays real-time visualizations using Power BI.
2. **Data Table**: Allows users to view and manage station data.
3. **Contact Us**: Provides a form for users to send messages to the developers.
4. **About Us**: Contains information about the project's vision, mission, and goals.

**Using the Dashboard**

The Dashboard section integrates a Power BI dashboard that updates in real-time, displaying the latest data for Dublin bike stations.

**Features:**

* **Interactive Charts and Graphs**: Visualize data through various charts and graphs.
* **Auto-Refresh**: The dashboard is configured to auto-refresh daily, ensuring you see the most recent data.

**Managing Data**

The Data Table section allows authorized users to add, edit, and delete station data. Note that managing data requires user authentication.

**Adding Data**

1. **Navigate to Data Table**: Click on the "Data Table" link in the navigation menu.
2. **Click "Add"**: Press the "Add" button to open the data entry form.
3. **Fill in the Details**: Enter the necessary station details in the form fields.
4. **Submit**: Click "Submit" to add the new station record.

**Editing Data**

1. **Navigate to Data Table**: Click on the "Data Table" link in the navigation menu.
2. **Select Record**: Find the record you want to edit.
3. **Click "Edit"**: Press the "Edit" button next to the record.
4. **Modify the Details**: Update the station details in the form fields.
5. **Submit**: Click "Submit" to save the changes.

**Deleting Data**

1. **Navigate to Data Table**: Click on the "Data Table" link in the navigation menu.
2. **Select Record**: Find the record you want to delete.
3. **Click "Delete"**: Press the "Delete" button next to the record.
4. **Confirm Deletion**: Confirm the deletion action when prompted.

**Contacting Developers**

The Contact Us section allows users to send messages to the development team.

**Sending a Message**

1. **Navigate to Contact Us**: Click on the "Contact Us" link in the navigation menu.
2. **Fill in the Form**: Enter your name, email address, subject, and message in the form fields.
3. **Submit**: Click "Submit" to send your message. A confirmation message will appear once your message is sent successfully.

**About the Project**

The About Us section provides information about the project's vision, mission, and goals. It also includes background information on the project's significance and objectives.

**Viewing Project Information**

1. **Navigate to About Us**: Click on the "About Us" link in the navigation menu.
2. **Read the Information**: Browse through the provided information to understand the project's purpose and goals.

**User Roles and Permissions**

**Admin:**

Admins have the highest level of access within the application. They can manage all aspects of the application, including user management, data management, and application settings.

**Permissions:**

* Access all sections of the application (Dashboard, Data Table, Contact Us, About Us).
* Add, edit, and delete station data.
* Manage user accounts (create, update, delete users).
* View and modify application settings.
* Access and configure Power BI dashboard settings.
* Receive and respond to user messages from the Contact Us page.

**Manager:**

Managers have elevated access to manage data and oversee operations. They have permissions to handle most tasks except user management and application settings.

**Permissions:**

* Access Dashboard and Data Table sections.
* Add, edit, and delete station data.
* View the About Us section.
* View and respond to user messages from the Contact Us page.

**User:**

Regular users have basic access to view data and interact with the application's public features. They cannot modify data or manage user accounts.

**Permissions:**

* Access Dashboard and About Us sections.
* View data in the Data Table section.
* Send messages via the Contact Us page.

**Permission Matrix**

|  |  |  |  |
| --- | --- | --- | --- |
| **Permission** | **Admin** | **Manager** | **User** |
| Access Dashboard | ✓ | ✓ | ✓ |
| Access Data Table | ✓ | ✓ | ✓ |
| Add Station Data | ✓ | ✓ |  |
| Edit Station Data | ✓ | ✓ |  |
| Delete Station Data | ✓ | ✓ |  |
| Access Contact Us | ✓ | ✓ | ✓ |
| Send Message | ✓ | ✓ | ✓ |
| Access About Us | ✓ | ✓ | ✓ |
| Manage User Accounts | ✓ |  |  |
| View Application Settings | ✓ |  |  |
| Modify Application Settings | ✓ |  |  |
| Configure Power BI Settings | ✓ |  |  |

**Troubleshooting and FAQs**

**Common Issues**

1. **Unable to Access the Application**
   * Ensure you are using the correct URL.
   * Check your internet connection.
   * If the problem persists, contact the support team.
2. **Login Issues**
   * Ensure you are entering the correct username and password.
   * If you forgot your credentials, contact the support team for assistance.
3. **Data Not Updating**
   * Ensure the auto-refresh is enabled in Power BI.
   * If the problem persists, contact the support team.

**Frequently Asked Questions**

1. **How often is the dashboard data updated?**
   * The dashboard data is updated daily through an auto-refresh setup.
2. **Can I manage data without logging in?**
   * No, managing data requires user authentication to ensure security.
3. **How can I contact the developers?**
   * Use the Contact Us form provided in the application to send messages to the developers.