Readme.txt

[Group-Project](https://github.com/Sushil-19/Group_Project/tree/main#group-project)

Welcome to the E-bike Rental System, a user-friendly application that allows you to rent E-bikes conveniently. This README will guide you through the steps to use the system effectively. This is a simple E-bike Rental System implemented using Tkinter, a Python library for creating graphical user interfaces.

[**Features**](https://github.com/Sushil-19/Group_Project/tree/main#features)

User-friendly graphical interface.

Has Customer, Operator, and Manager functionalities to handle databases and use the rental system for each registered person accordingly.

Very simple code and easy to understand the functionality.

[**Installation**](https://github.com/Sushil-19/Group_Project/tree/main#installation)

1. Fork the repository in your account
2. Clone your forked repository:

git clone https://github.com/your-github-account/Group\_Project.git

1. Change the directory to the project folder:

cd Group\_Project

1. Install the required dependencies:

spip install -r requirements.txt

[**Usage**](https://github.com/Sushil-19/Group_Project/tree/main#usage)

To get started with the E-Bike Management System (Glas'e'go), follow the below steps:

[**Customer**](https://github.com/Sushil-19/Group_Project/tree/main#customer)

[**Customer Registration**](https://github.com/Sushil-19/Group_Project/tree/main#customer-registration)

To get started with the E-bike Rental System, you need to create an account. Follow these steps:

Click on the "Register" button.

Fill in your details, including your name, email, and password.

Click "Register" to create your account.

[**Customer Log In**](https://github.com/Sushil-19/Group_Project/tree/main#customer-log-in)

Once you've registered, you can log in to your account:

Click on the "Log In" button.

Enter your registered email and password.

Click "Log In" to access your account.

[**Customer Adding Funds to Wallet**](https://github.com/Sushil-19/Group_Project/tree/main#customer-adding-funds-to-wallet)

To rent E-bikes, you'll need to have funds in your wallet. Here's how to add funds:

Navigate to your wallet.

Choose the "Add Funds" option.

Enter the desired amount and payment details.

Confirm the transaction to add funds to your wallet.

[**Customer Renting a Vehicle**](https://github.com/Sushil-19/Group_Project/tree/main#customer-renting-a-vehicle)

Now that you have funds in your wallet, you can rent a vehicle:

Select a station from which you want to rent a vehicle.

Browse the available E-bikes and choose one.

Click on the "Rent" button to start your journey.

[**Customer Checking Activity**](https://github.com/Sushil-19/Group_Project/tree/main#customer-checking-activity)

You can monitor your current rentals and perform vehicle returns from the "Activity" page:

Click on the "Activity" button.

View your active rentals and the details.

To return a vehicle, click the corresponding option.

[**Customer Returning a Vehicle**](https://github.com/Sushil-19/Group_Project/tree/main#customer-returning-a-vehicle)

When you're ready to return your vehicle, follow these steps:

Return your vehicle through the "Activity" page.

The system will prompt you with the final amount based on the travel time.

Click "Pay" to complete the transaction from your wallet.

[**Customer Paying for Your Ride**](https://github.com/Sushil-19/Group_Project/tree/main#customer-paying-for-your-ride)

To pay for your ride, ensure you have sufficient funds in your wallet:

When prompted with the final amount, click "Pay."

The payment will be deducted from your wallet balance.

[**Customer Reporting a Defective Vehicle**](https://github.com/Sushil-19/Group_Project/tree/main#customer-reporting-a-defective-vehicle)

If you come across a defective vehicle or want to report an issue, follow these steps:

Access the "Report" page.

Choose a vehicle from the list of previously rented vehicles.

Mark the selected vehicle as defective.

The vehicle will be taken out of service until it's repaired by the operator.

[Please note: You can only report a vehicle as defective if you have rented it before.](https://github.com/Sushil-19/Group_Project/tree/main#please-note-you-can-only-report-a-vehicle-as-defective-if-you-have-rented-it-before)

Operator

[**Operator Registration**](https://github.com/Sushil-19/Group_Project/tree/main#operator-registration)

Click on the "Register" button.

Fill in your registration details.

Click "Register" to create your account.

[**Operator Login**](https://github.com/Sushil-19/Group_Project/tree/main#operator-login)

Click on the "Login" button.

Enter your registered email and password.

Click "Login" to access your account.

[**Operator Adding Bikes**](https://github.com/Sushil-19/Group_Project/tree/main#operator-adding-bikes)

Navigate to the "Add Bikes" section.

Click on the "Add Bikes" button.

Submit the bike details.

[**Operator Removing Bikes**](https://github.com/Sushil-19/Group_Project/tree/main#operator-removing-bikes)

Visit the "Remove Bike" section.

Click on the "Remove Bike" button.

Provide the appropriate bike ID.

[**Operator Tracking Bikes**](https://github.com/Sushil-19/Group_Project/tree/main#operator-tracking-bikes)

Access the "Track Bikes" section.

Choose a location from the dropdown menu.

View the data of all bikes present at the selected location.

[**Operator Monitoring Bike Status**](https://github.com/Sushil-19/Group_Project/tree/main#operator-monitoring-bike-status)

Check the landing page where all bikes are visible with their location and states (available, charged, servicing).

Charge a bike by clicking on the "Charge" button.

Repair a bike if servicing is needed by clicking on the "Repair" button.

Move a bike to a different location by clicking on the "Move Bike" button.

[**Manager**](https://github.com/Sushil-19/Group_Project/tree/main#manager)

The manager has only one login page.

Access the data of bikes and rental stations by clicking on the "Find" button for selected time frames.

Get the graphical representation of data (Figures) by clicking on the "Show Figures" button.

[**Acknowledgments**](https://github.com/Sushil-19/Group_Project/tree/main#acknowledgments)

I thank Miss Mireilla Bikanga Ada for guiding us throughout and for the opportunity to work and present for this project. I also acknowledge the efforts made by my fellow teammates to create this project.

[**Contributing**](https://github.com/Sushil-19/Group_Project/tree/main#contributing)

Contributions to improve the Bike Management System are welcome. If you'd like to contribute:

Fork the repository.

Create a new branch for your feature or bug fix.

Make your changes and commit them.

Push to your fork and submit a pull request.

[**Contact**](https://github.com/Sushil-19/Group_Project/tree/main#contact)

For any questions or inquiries, contact [Sushil Dube](mailto:dubesushil99@gmail.com).

Enjoy managing your bikes with the Bike Management System, and feel free to reach out if you have any questions or suggestions!