

Automated Railway Ticketing System

USER MANUAL

Table of Contents

| GENERAL INFORMATION | 2 |
|----------------------------|----|
| Hardware Overview | 2 |
| Steps to Register | 2 |
| HAND HELD DEVICE | 3 |
| Introduction | 3 |
| Identification | 4 |
| How this works | 5 |
| Important | 5 |
| GATE MACHINE | 6 |
| Introduction | 6 |
| Identification | 6 |
| USER PORTAL | 8 |
| Landing Page | 8 |
| Login window | 9 |
| Login as a customer/client | 10 |
| Login as an admin | 15 |
| Common cases | 21 |

General Information

HARDWARE OVERVIEW

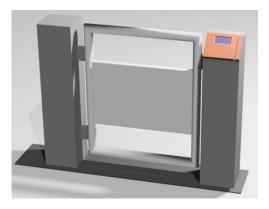




Figure 1.0

STEPS TO REGISTER

- 1. Travelling customers should register to the system providing details and should purchase a swipe card from railway station.
- 2. They can track all their travelling history and payments via web application provided. Before that they should register in to the web application providing User Id he/she got when they register to the system in step 1.

Hand Held Device

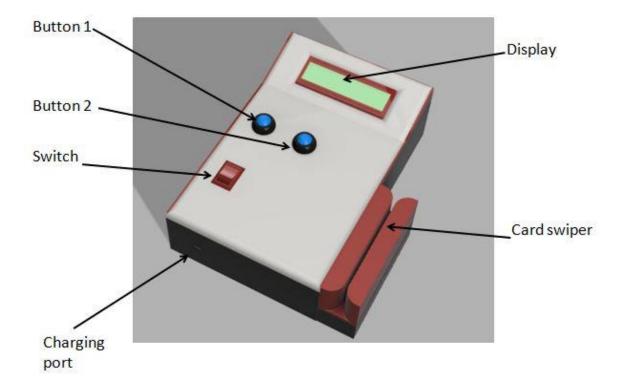


Figure 2.0

INTRODUCTION

This is the block diagram of the hand held device which is used to enter the travelling class of the related train passenger.

This device is a mini-size equipment that can be fixed to the ticket checker's hand by the belt. Operations of this one are much easier with the given user friendly hardware view.

IDENTIFICATION

• Switch

This is the ON/OFF switch. When turn on, necessary indications get displayed.

• Card-swipe

Ticket checker can swipe the smart travelling card of the passenger here. It will be much useful if you swipe the card in the manner that will ensure no damage to the card.

• Button 1

If the passenger is travelling in the "SECOND CLASS", have to push this button.

• Button 2

If the passenger is travelling in the "THIRD CLASS", have to push this button.

Display

All the identifications are displayed here. Battery details, action details can be seen here by the checker.

Charging port



Figure 3.0

This is the charger of the device and via the charging port device can be recharged.

HOW THIS WORKS

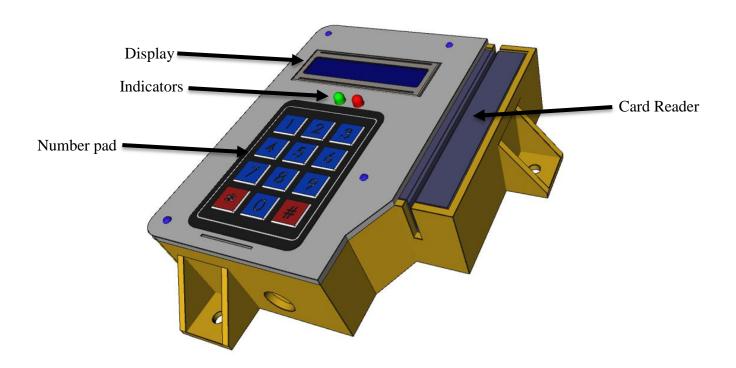
When some travel start, checker can turn on the device by the switch. Usually all the passengers entered via gates are hardcoded as third class passenger. When the checker reached to a passenger, have to swipe the card on the device. Then details of the passenger get displayed on the screen and class of travelling is third class by default. If the passenger is travelling in higher class, then checker can enter the related passenger class by given button and then it get displayed. Likewise details of all the passengers can be taken. These details can get updated when train reached to a station. After the end of travel can turn off the device.

When battery is low it is indicated by the display and have to charge nearly 4hrs and charge will retain for 48 hrs.

IMPORTANT

- 1. Swipe the cards carefully.
- 2. Charge the device with proper power connection. If there are problems with this it will damage the device.
- 3. Hard usage is acceptable but greater pressure on the device will damage the device.
- 4. Not water resist.
- 5. If there are problems get the advice of technical person.

Gate Machine



INTRODUCTION

This is the machine you see at the entrance & exit gates. You should swipe your card at every entrance & exit.

IDENTIFICATION

Display

Displays the numbers you enter from Number Pad.

Displays notifications when you swipe your card.

Indicators

If red indicator is on, that means you have a problem with your account. You should meet administration before you travel again.

If green indicator in on, that means there is no problem. The gates will open for you.

• Number pad

To enter the number of tickets you want.

• Card reader

To swipe the card when you travel.

User Portal

Web Interface

1. LANDING PAGE

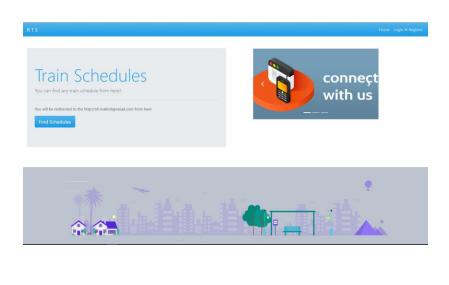




Figure 1.0

This is what you see when you open our web application. From here, you can find train schedules by clicking "Find Schedules" button.

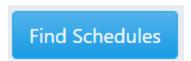


Figure 1.1

If you have a valid user card from railway department, you can register or login to our travel monitoring system using the button in the upper right corner.



Figure 1.2

2. LOGIN WINDOW

2.1. Register Window

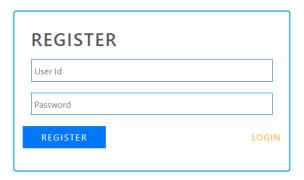


Figure 2.1.0

If you are using this web application first time, you have to register first. For that you should use the User Id you got when you purchasing a card from the railway department. You can use a password on your own.

2.2. Login Window



Figure 2.2.0

If you are a registered person as a web application user before, you should enter your User Id which has been provided by railway department and the password you created when registering.

If you forgot your password, you should meet the administration to reset your account and the password.

3. LOGIN AS A CUSTOMER/CLIENT

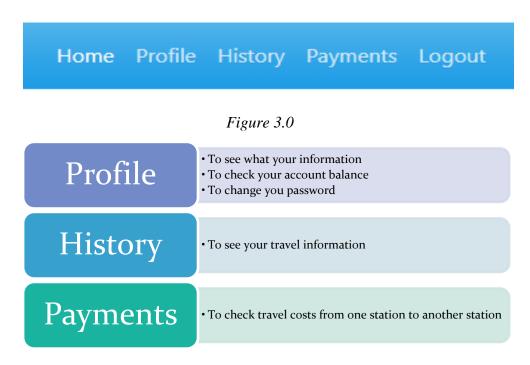


Figure 3.1

3.1. Profile

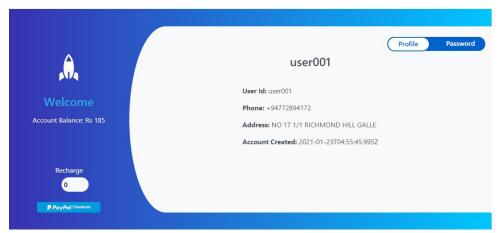


Figure 3.1.0

This is the profile window you see. You can identify your details and the account balance as above.

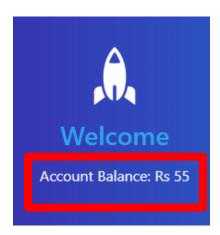


Figure 3.1.1

To recharge your account,

- 1. Enter amount you want to recharge in the input box called "Recharge"
- 2. Then press the button below that

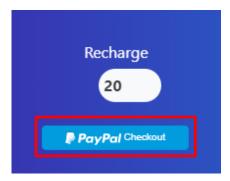


Figure 3.1.2

To change your password, press "Password" section in the figure 3.1.0.

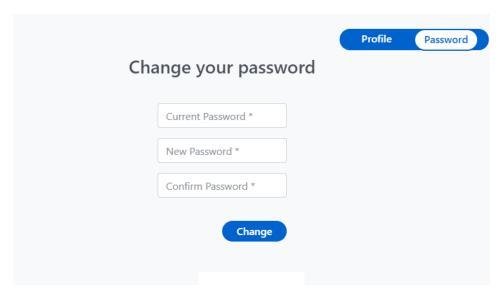


Figure 3.1.3

You should enter your current password before you change the password. Then enter new password and again enter the confirmation password to change your password.

3.2. History

This is where you can find your all travel details as records.

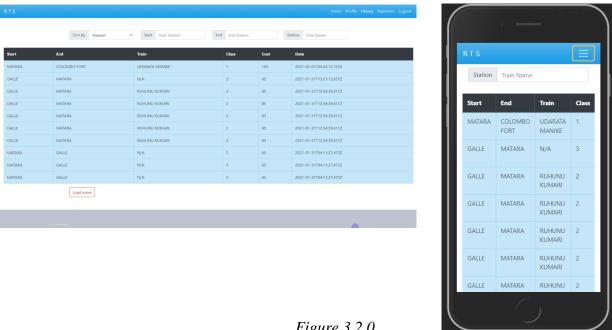


Figure 3.2.0

There are some options for you to choose when looking your travel history.



Figure 3.2.1

You can sort and find your travels by using "Sort By" option.

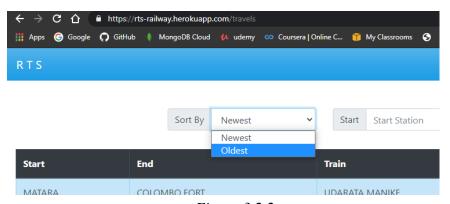


Figure 3.2.2

If you want to see history from a specific starting point as your starting station, you should enter that station in the "Start" search option. As same as above, if you want to see details about particular end station, enter that station in "End" option.

You can also see the history related to a particular train which you traveled.

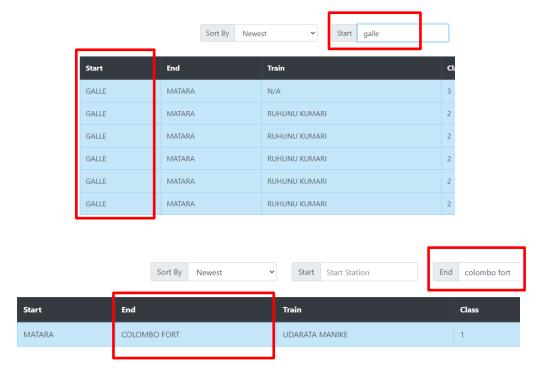


Figure 3.2.4

3.3. Payments

As the "Payments" section, you can get informed about travel costs from one station to another station.

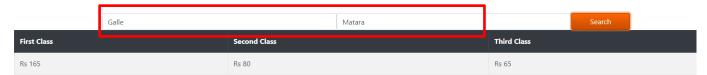


Figure 3.2.5

These are the details related to client side of the application.

4. LOGIN AS AN ADMIN

This interface will appear when you logged in as an admin. You have all the control to manage clients, manage railway stations, manage trains & increase, decrease travel costs.



Figure 4.0

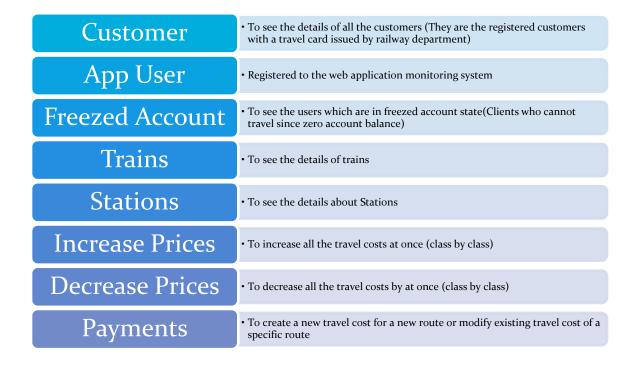


Figure 4.1

Below are the detailed view of all the windows, an admin can see.

4.1. Customer

Here is the place to see all the customers who purchased a travel card by registering in to the system. **Remember this is not the place to see web application users.**

One more thing, you can search customers by their User Id, and their living city and also you can sort customers by registered date latest to newest and newest to latest.



Figure 4.1.0

From here you can register new customers and update/delete customers from your system. To make deposits for a specific account using their User Id, click "Update" button.

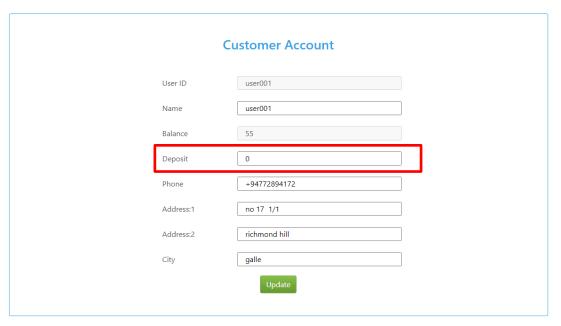


Figure 4.1.1

To register a new customer, click on "Create Customer" button.

Create Customer

Figure 4.1.2

4.2. App User

Registered web application users can be found here. To find a user, enter User Id in the search box. Then you can delete user by clicking on "Delete" button.



Figure 4.2.0

4.3. Freezed Account

This is the place you can find the customers who have freezed accounts. By searching by customer User Id, you can find details.

When there is a client consulting you telling that they can't travel using their card, that account is freezed due to lack of credit in their account. First of all you have to deposit some money which is greater than travel cost. Then you can remove that account from "Freezed" state. To update account balance, check section 4.1.

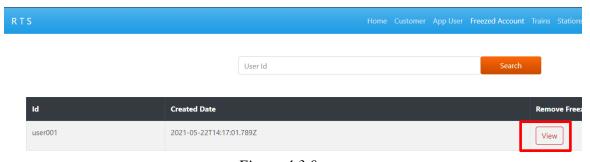


Figure 4.3.0

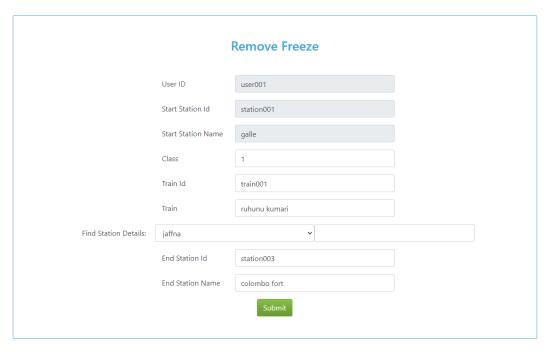


Figure 4.3.1

4.4. Trains

To check & update all the details about trains.

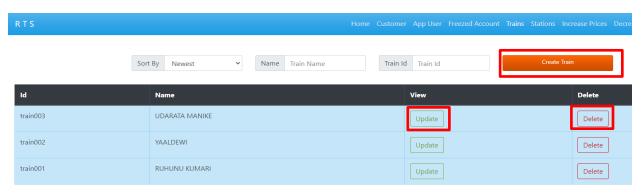


Figure 4.4.0

You can update or delete by clicking above red squared areas.

If you want to add a new train to the system, click "Create Train" button and add details.

As same as other topics, sorting and searching options are provided.

4.5. Stations

To check & update all the details about trains.

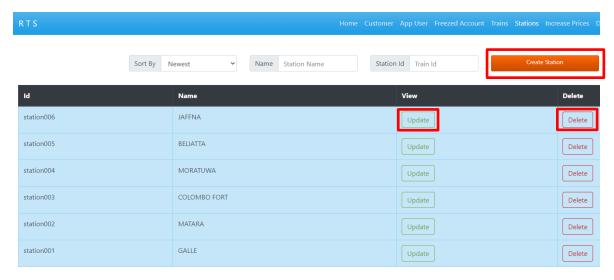


Figure 4.5.0

You can update or delete by clicking above red squared areas.

If you want to add a new station to the system, click "Create Station" button and add details.

As same as other topics, sorting and searching options are provided.

4.6. Increase Prices

From here you can increase travel costs at once by a specific amount of rupees. You can enter by that by class by class independently.

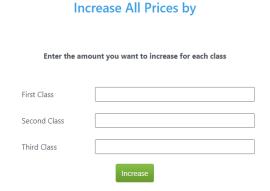


Figure 4.6.0

4.7. Decrease Prices

From here you can decrease travel costs at once by a specific amount of rupees. You can enter by that by class by class independently.

Decrease All Prices by



Figure 4.7.0

4.8. Payments

From here you can change travel costs of a specific route or add new travel costs for a new route to the system.

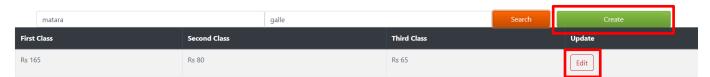


Figure 4.8.0

To see the specific route you want, just enter two stations in above search boxes.

To update costs click on "Edit" button. Click on "Create" button to add new cost to the system.

5. COMMON CASES

5.1. Load More

There are some common things for clients & admins. Those are as follows,

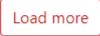


Figure 5.1.0

By clicking this button, you can see more details under that particular topic.

5.2. Logout

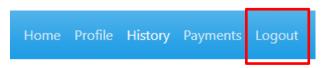


Figure 5.2.0

If you want to logout from the system, Click "Logout" button on the upper right corner.