User Manual

GTFS Editor

Service Engineering Lab

Version 1.0

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Table of Content

1. Introduction

   IRMA – Public Transit Open Data Edit Platform, as known as GTFS Editor, is a system that provides the public transit service providers / agencies with a well-designed and visualized tool for GTFS creation and edition. It supports GTFS import/export, GTFS generation and visualized edition, the results can be used as input data source for any public transit applications / services that consume the GTFS data, such as IRMA – Real-Time Public Transit or Trip Planner.

2. Login

   Login with an email address as username. You can check the 'Remember me on this computer' to avoid re-login trouble.

   If you need to create a new account or forget your password, please contact our administrator: irmarealtime@gmail.com. Users who passed the validations will be assigned with a new account or allowed to reset his password.
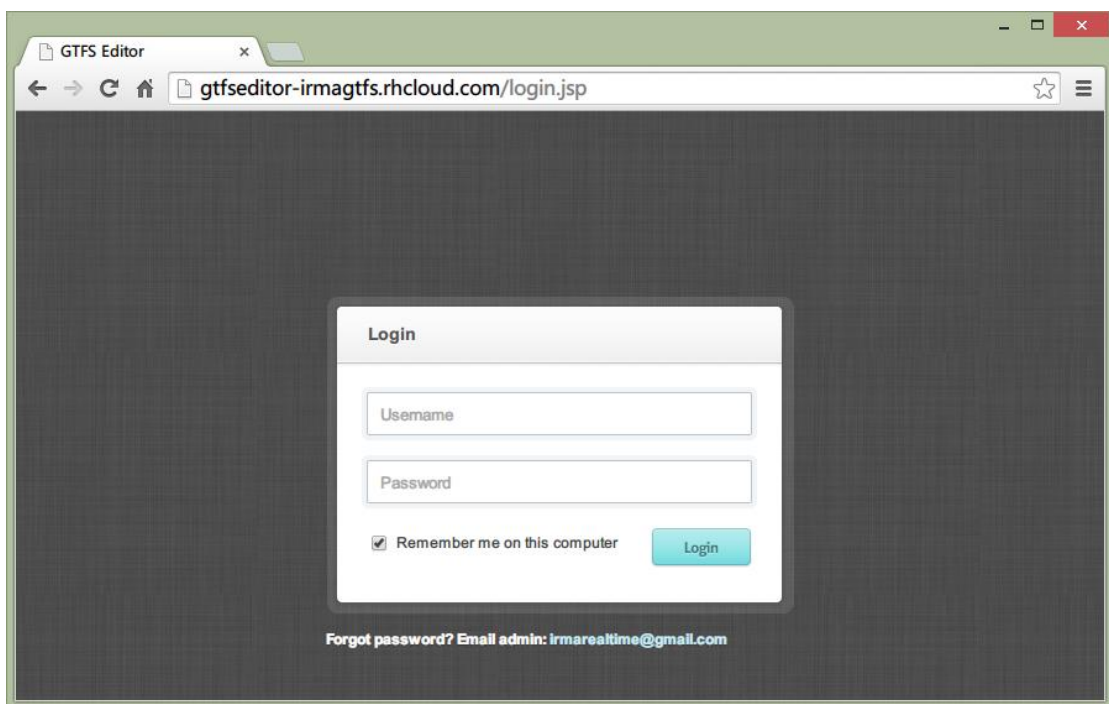

Figure 1 – Login

3. Main

Mainly two parts: left column contains menu items, right zone is left for edition.

➢ GTFS: create new GTFS, edit current GTFS and export GTFS;

➢ ADMIN: update account information, logout;

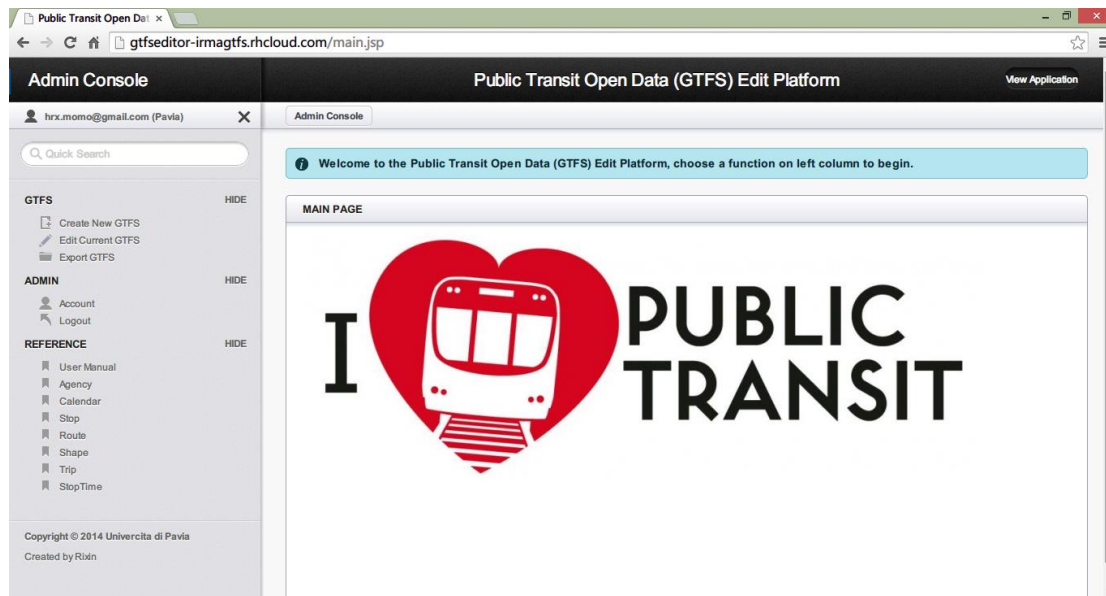➢ REFERENCE: user manual, GTFS references;

Figure 2 – Main page

4. New GTFS Wizard

After you created a new account, you can click the 'Create New GTFS' on left column to begin. But if you have already created an old version set before, this option will prompt if you wish to wipe the old version out and create a new set. So be careful with it. You are suggested to export the old version set first before the new creation.

This wizard offers some useful information such as GTFS concept, the procedure to create a copy of GTFS step by step and also some GTFS examples. Click 'GO'!
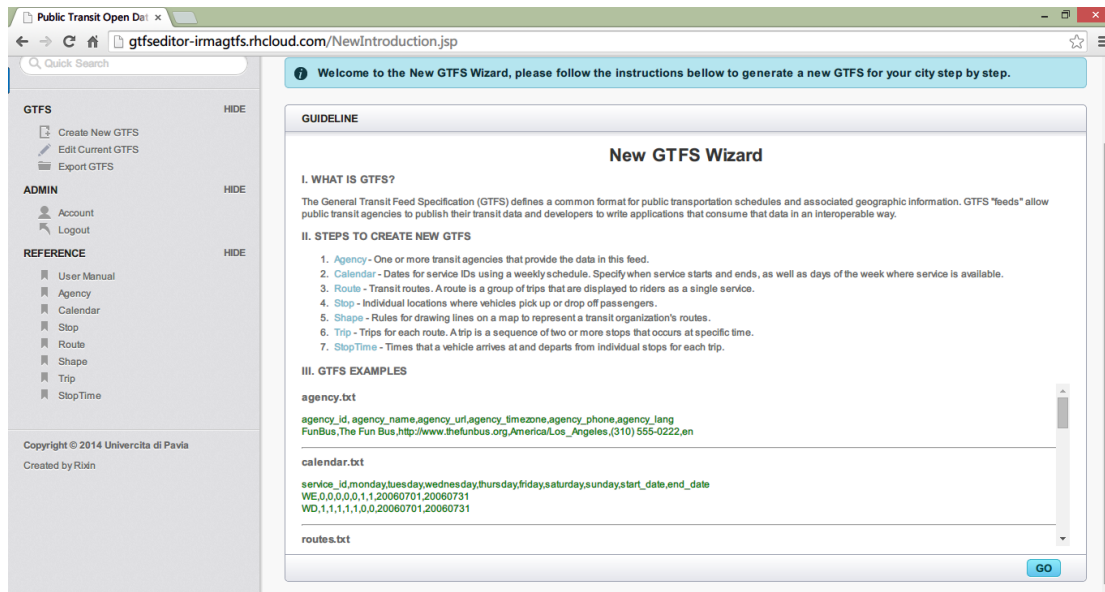
Figure 3 – New GTFS wizard

5. New Agency

Fill each field to create the agency. Each field has a preset value as an example such as 'e.g. The Fun Bus' for 'AGENCY NAME'. If you are still not so clear with the meaning of a field, click the 'READ MORE' link beside field name to get more details or the 'Agency' link in the top blue bar. Pay attention to that fields with asterisk (*) must be filled, others can be left blank. When you are finished, click the 'Save' button on the bottom, and 'Next' will lead you to 'Calendar' creation.
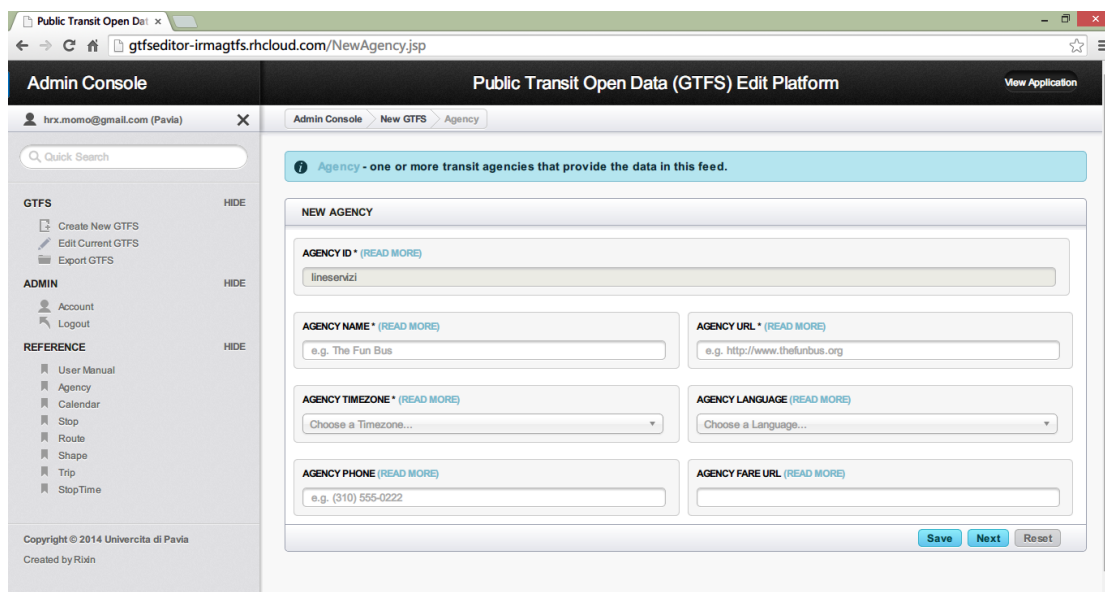
Figure 4 – New agency

6. New Calendar

New calendar page has two tabs on the upper right corner: New and List

1) New tab: fill each field, same with new agency;

2) List tab: list all calendars you created before, click the trash icon to delete.

Figure 5 – New calendar, new tab

Figure 6 – New calendar, list tab

7. New Route

The operations are same with new calendar.

Figure 7 – New route

8. New Stop

New stop page has three tabs on the upper right corner: Map, New and List

1) Map tab: used for visualization. Click on the map to add new stop, you can drag-and-drop the bus marker to adjust the position. The popup window will show the stop location (latitude / longitude) and description / address. Click 'New Stop' to turn to 'New' tab, add more details to complete. Click 'Delete Stop' to remove the marker. User upper left button (right below the two zoom buttons) to control the show / hide of existed stops.

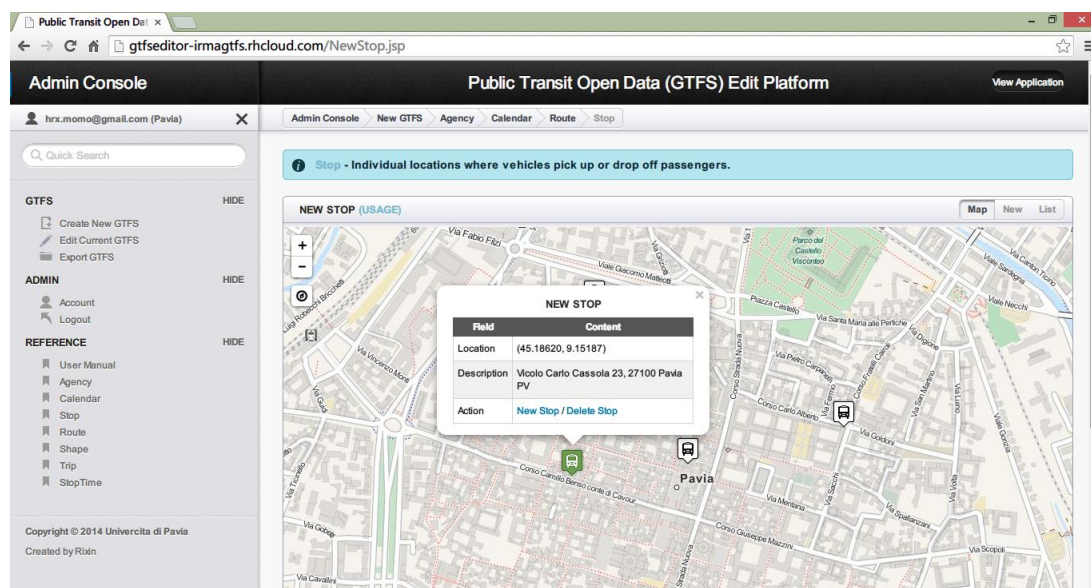2) New and List tab: same with new agency;

Figure 8 – New stop

9. New Shape

Shape is used for drawing lines to represent route on a map.

We support two ways to generate shape points: **Automatically** and **Manually**.

Automatically:

➢ Choose a route from the upper right box;

➢ Choose one or more calendars from the upper right box;

➢ Click the stop belongs to the chosen route **sequentially** to generate shapes;

➢ If necessary, drag and drop the current route line to correct it;

➢ Click finish and save to add shapes.

Manually:

➢ Drag the point marker to move it around;

➢ Right-click on point marker to remove the point;

➢ Drag the middle point marker to create new points between two existing;

➢ Right-click on middle point marker to split the point;

➢ Click on the first or last point to add a new first/last point.

Note:

➢ Right click the stop icon to check more detailed information.

➢ **Orange** represent editable lines/points, while **Blue** represent confirmed lines/points.

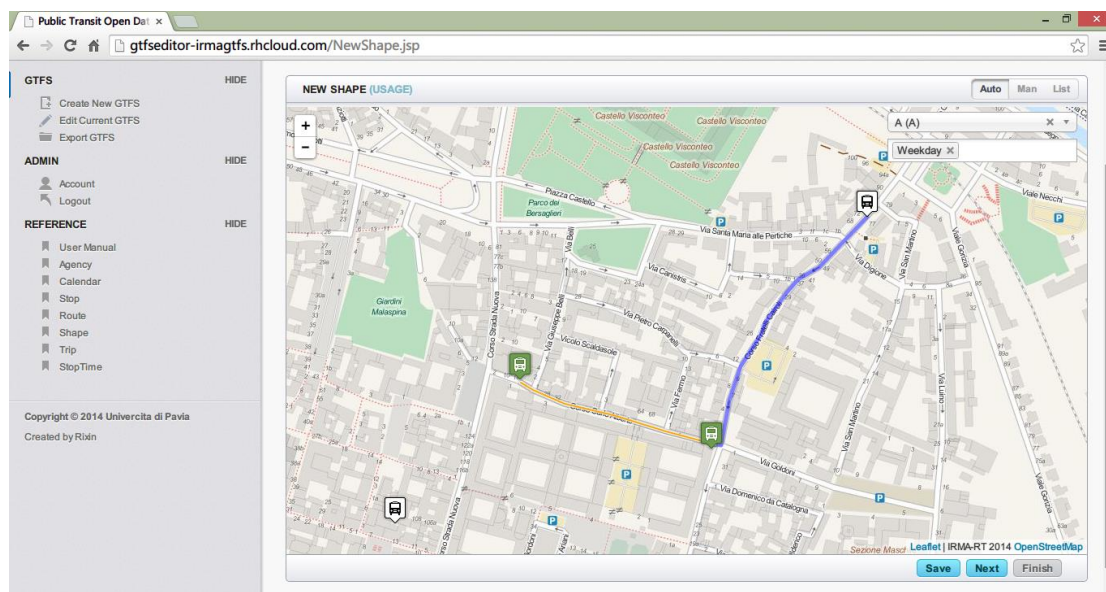➢ The shape_id field is auto-generated as this format: route_id##service_id
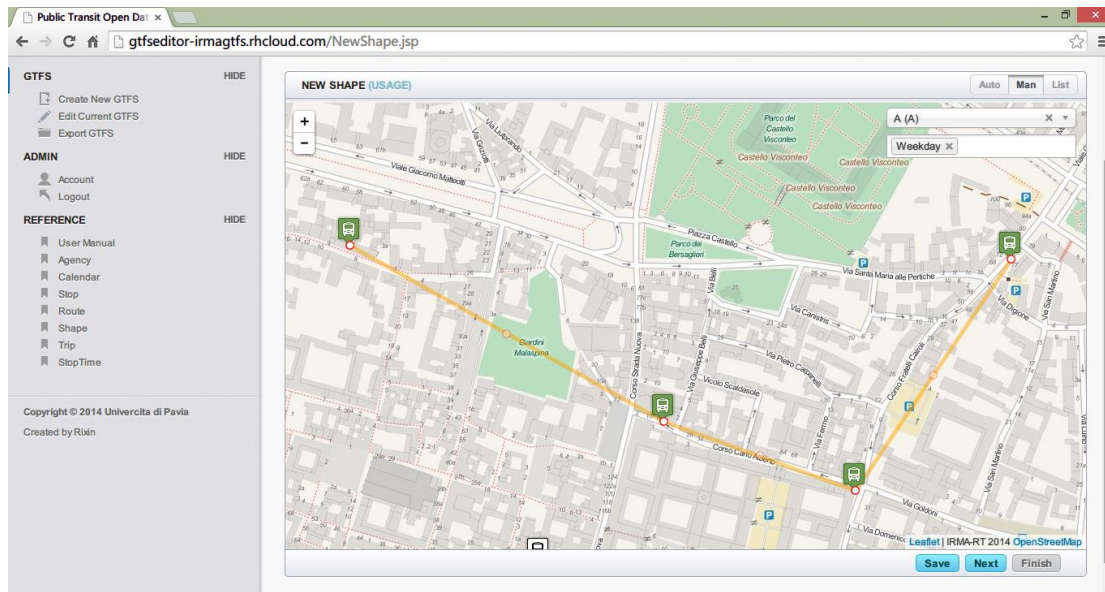

Figure 9 – New shape automatically
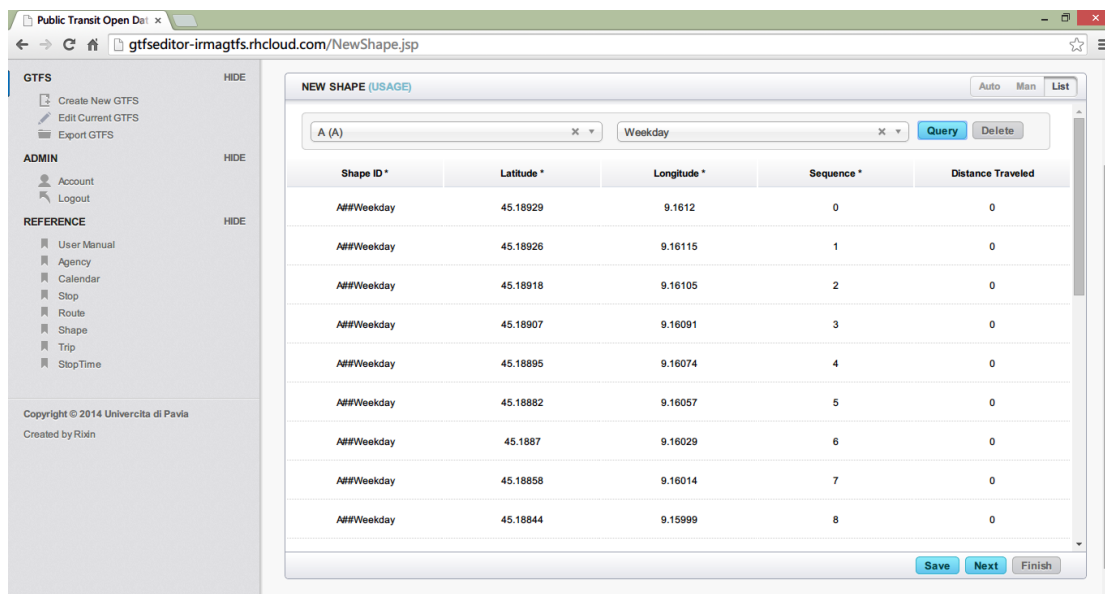
Figure 10 – New shape manually

Figure 11 – Query shape by route and calendar

10. New Trip

The operations are same with new calendar.

Figure 12 – New trip

11. New StopTime

➢ Choose a route in upper right box, then choose a trip of that route.

➢ Click stops of that trip by **SEQUENCE**.

➢ Fill the arrival time and departure time fields.

➢ Click 'Save' to add or turn to 'New/Edit' tab, enter more detail to complete.

➢ **Green** bus marker means time has been added, while white one are not, and **orange** one means the currently editing stop. Click **Complete** to finish! ☺

Figure 13 – New stoptime
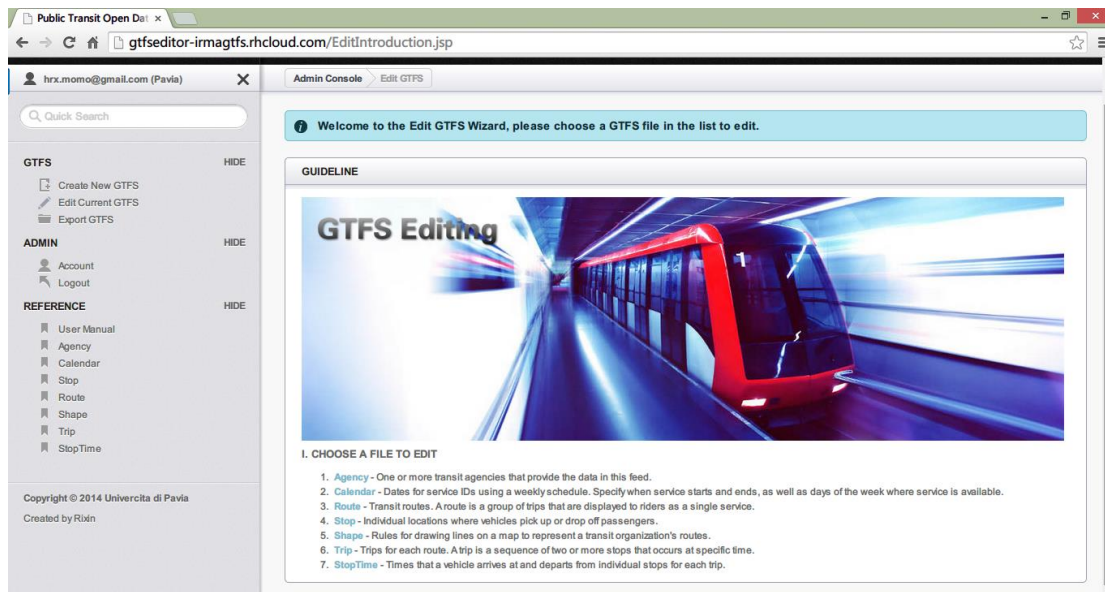
12. Edit GTFS

Choose a GTFS file to edit.

Figure 14 – Edit GTFS

13. Edit Agency

When you click the 'Agency' link in EditIntroduction.jsp page (previous one), it will load the agency information to each field automatically. Update the information and click 'Save' to commit the modifications
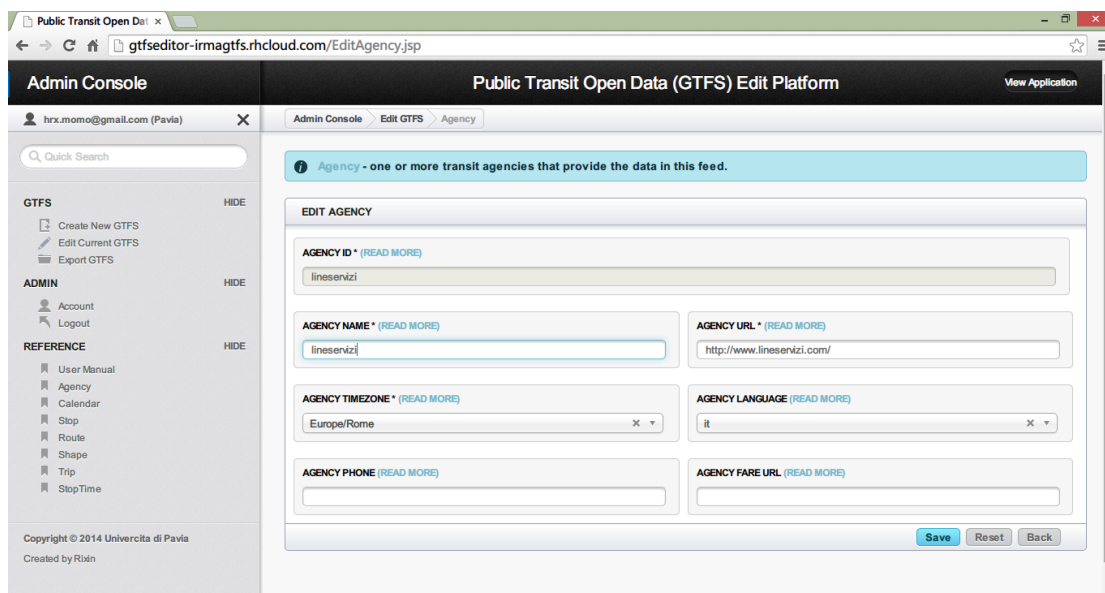

Figure 15 – Edit agency

14. Edit Calendar

 ➢ In the 'List' tab, it will display all the existed calendars;

 ➢ Click the pen icon to edit that item, this operation will load the information in 'Edit' tab;

 ➢ Click the trash icon to delete that item;

 ➢ If you need to create new calendar, turn to 'Edit' tab to insert one.
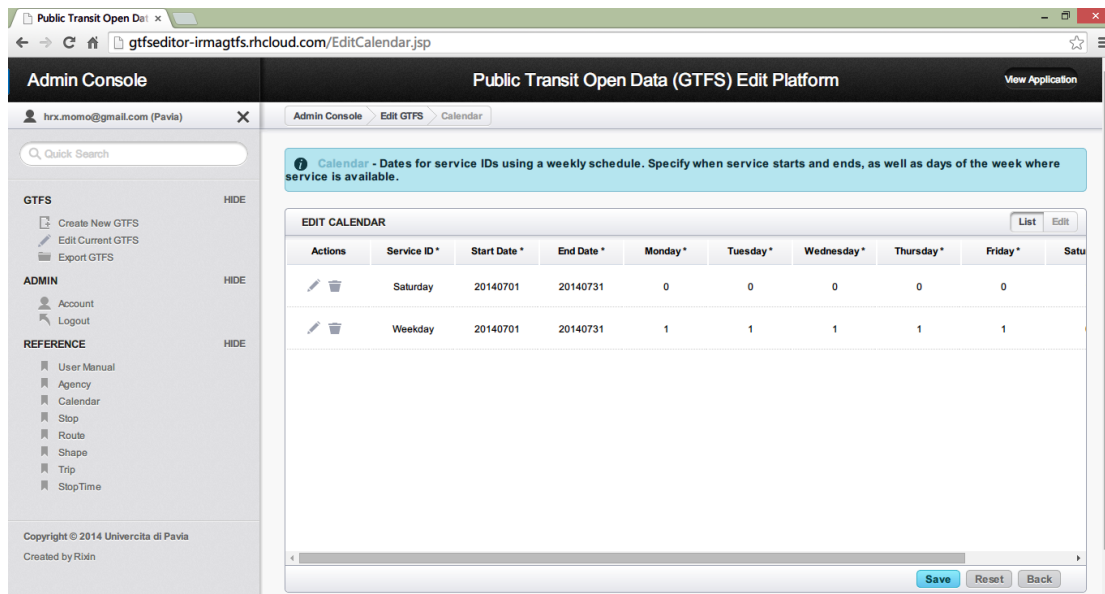
 ➢ Finally, do not forget to click 'Save'.

Figure 16 – Edit calendar

15. Edit Route

The operations are same with 'Edit Calendar'.

16. Edit Stop

 ➢ Click the existed stop marker to check its details;

 ➢ Use 'Update' link to do some modifications in 'Edit' tab;

 ➢ Use 'Delete' link to delete chosen stop;

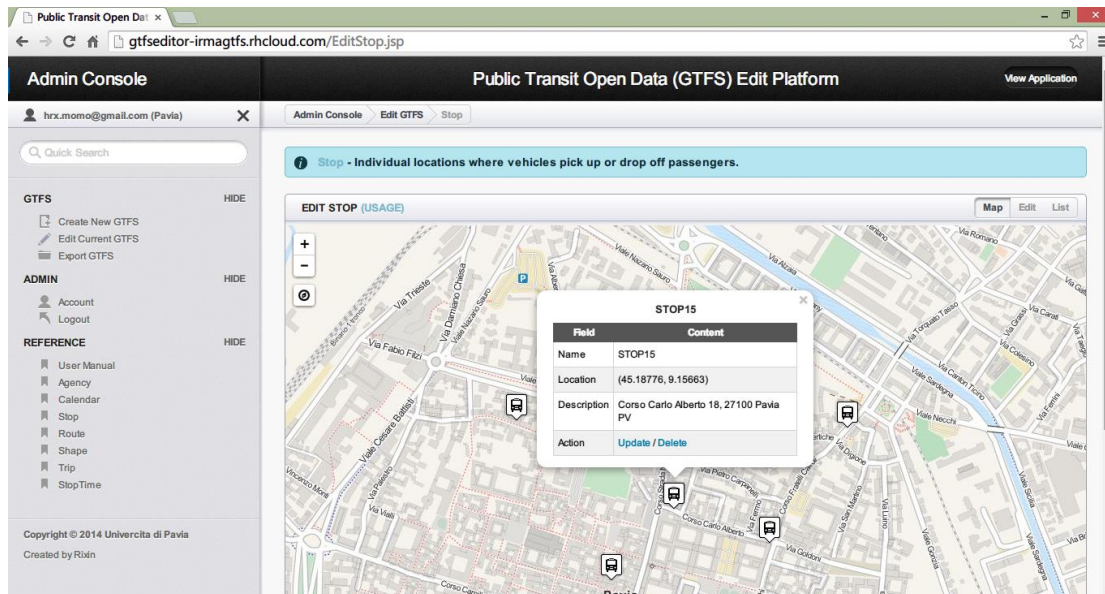 ➢ Click on the map to add a new stop, the operations are same with 'New Stop'.

Figure 17 – Edit stop

17. Edit Shape

➢ Choose a route and calendar, if this combination has related shapes, it will be displayed on the map, and you can control very single point.

➢ Click the marker to add or remove stops on this shape, green means it is on the current shape, while white means not.
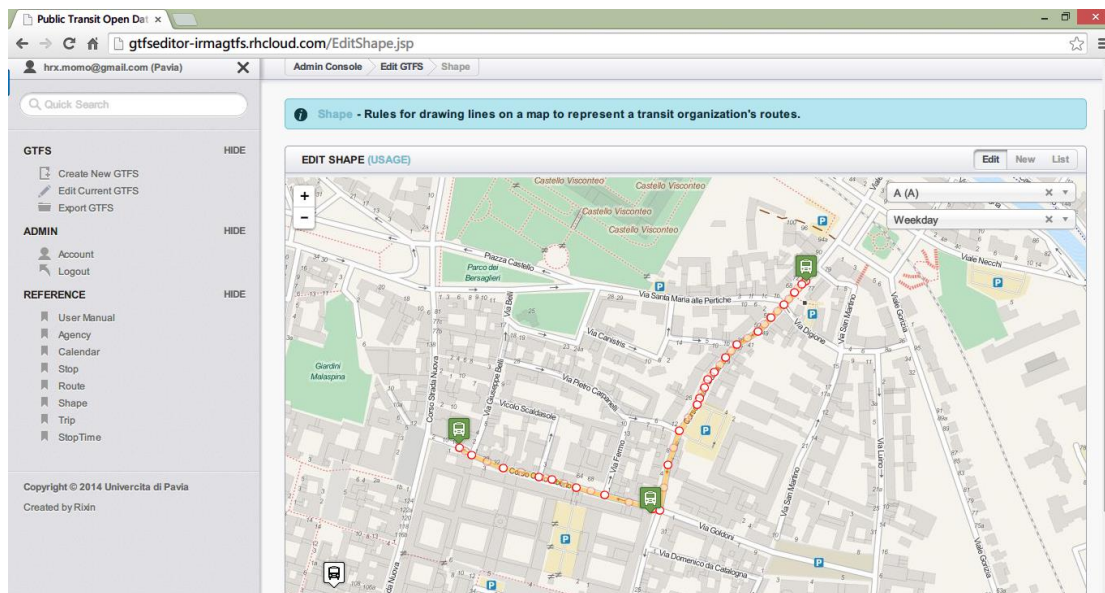

Figure 18 – Edit shape

18. Edit Trip

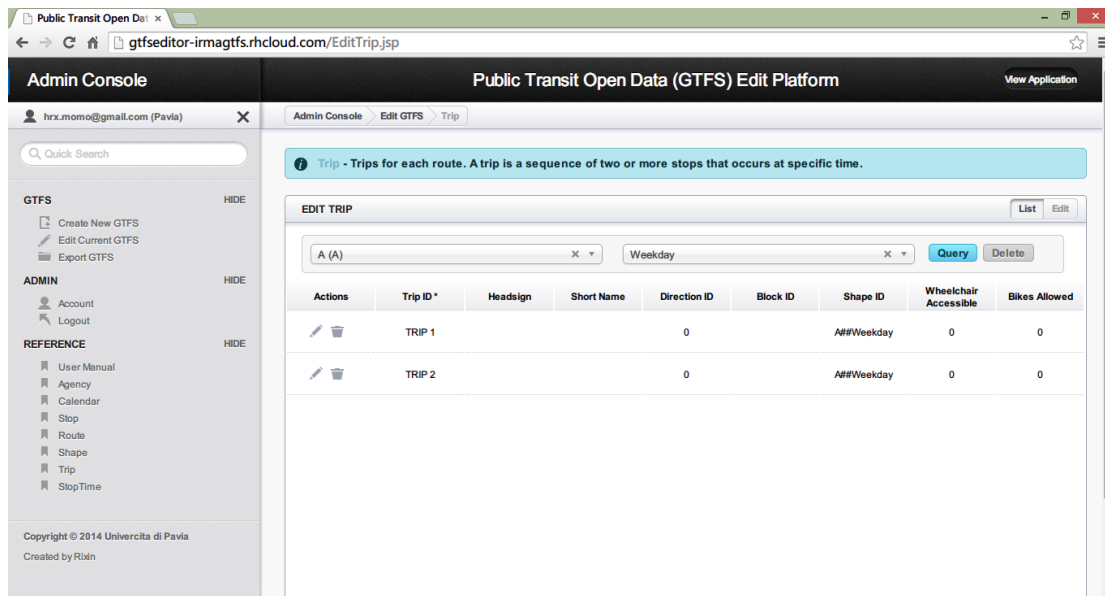Query trips by route and calendar, you can edit each single trip, or delete them all. Change to 'Edit' tab to create a new trip.

Figure 19 – Edit trip

19. Edit StopTime

Choose a route and trip on the upper right corner, change the arrival time and departure time of a specific stop.
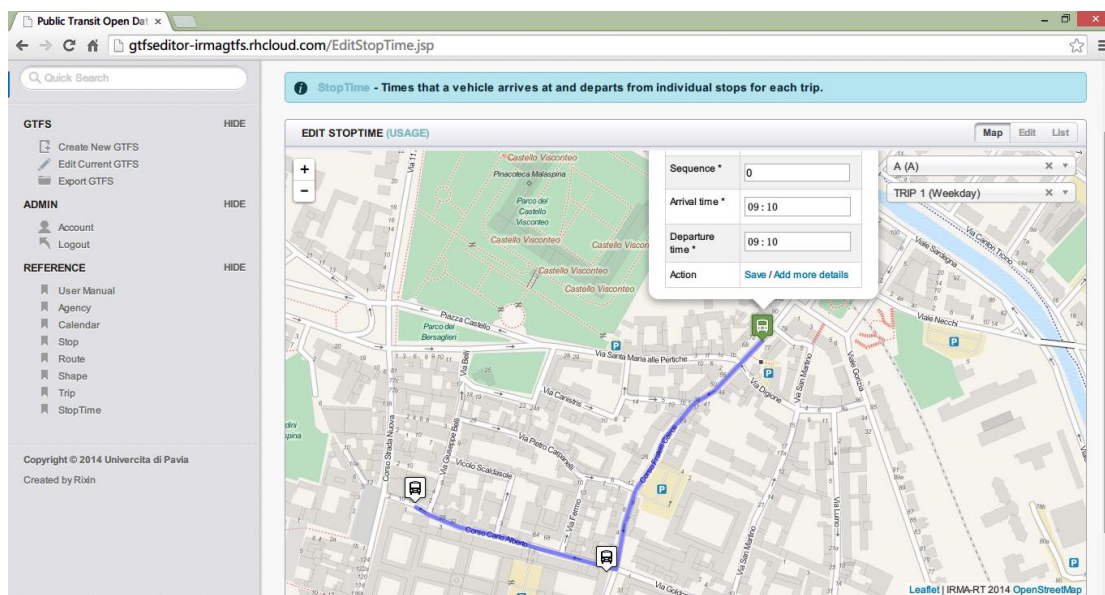

Figure 20 – Edit stoptime

13

20. Update Account

Update your account information, country, city, city center coordinate and change your password if you want to.

Figure 21 – Update account