ZidShip Couriers Framework

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Introduction:

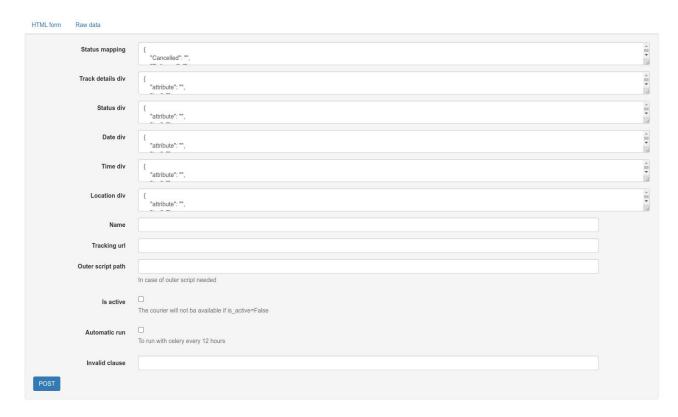
ZidShip Courier is a framework that defines a unified interface for the rest of the ZidShip system to

communicate through and allows to generic integrate more couriers. The project contains a lot features like :

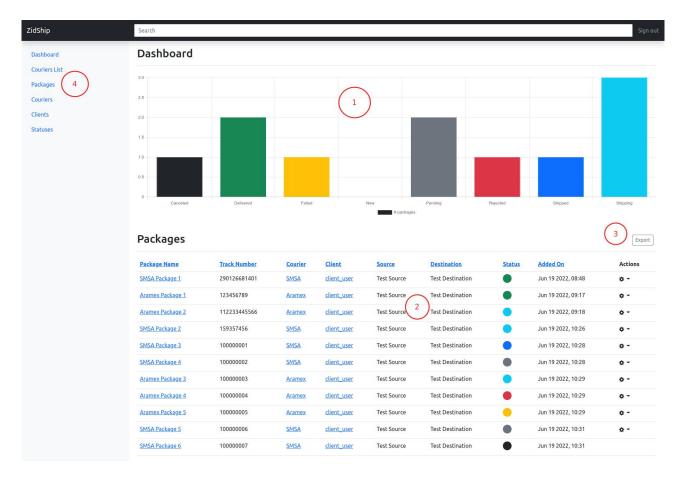
- 1- Dashboard with bar chart to measure number packages with same status, when clicking on the bar chart the system will redirect to packages list with status that user clicked on.
- 2- Export packages list, Waybills in CSV format
- 3- Each package Status implemented with different color for ease of use.
- 4- Add / Edit / Delete Packages, Couriers, Status, Clients.
- 5- Track each package, update and display the tracking history
- 6- Tracking could be by using the implemented script or by using external script (by adding path of the script and the system will run it then return the results)
- 7- The implemented tracking script is doing HTTP calls and retries
- 8- Expose the API as a web service.
- 9- Implement SMSA Package tracking as a proof of concept (you can find it in the system with track number = 290126681401)
- 10- Admin can cancel package, couriers

Tracking feature:

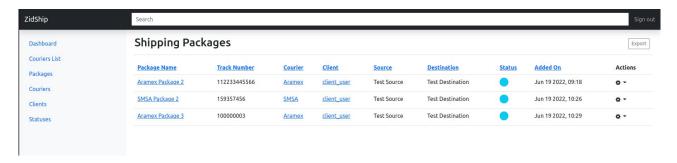
- 1- Create the Courier with the following fields
 - a) Status Mapping : JSON dictionary with statuses in the system and corresponding status in the Courier website
 - b) Track Details Div: JSON dictionary with initial key values (status div / date div/ time div / location div) are same fields
 - i. Tag: element tag (div/ span/ h4 / ..)
 - ii. Attribute: attribute in the tag (class / id / ..)
 - iii. Value: value of the attribute
 - iv. Child: child of the tag (span / div / ...)
 - c) Tracking URL: courier website tracking url
 - d) Outer script path : dotted path of the script
 - e) If the courier is active or not (canceling courier if from here)
 - f) Automatic url: automate tracking script run and update the packages status (TODO)
 - g) Invalid clause: invalid sentence in case of invalid tracking number or data
- 2- Click on track action from the actions in Package table
- 3- The script will run, return with the tracking history, and update the package status with status mapping dictionary.



Home Page

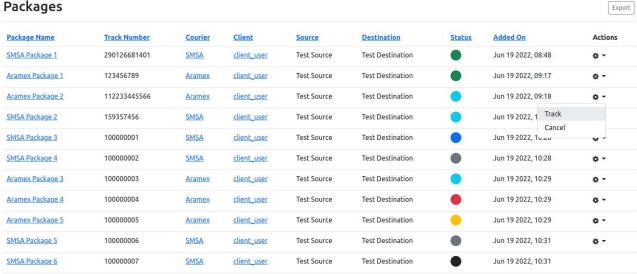


1- Bar Chart with to measure number packages with same status. When clicking on one of them the system will redirect to Package list with the same status that chart presenting. For example, there are 3 packages with "Shipping" status. When clicking on the bar the system redirected to the following:



2- All the Packages in the system sorted by the date of creation, and it can be sorted by any field - just click on it - Actions menu will be follow the field with related actions. For example,

Packages



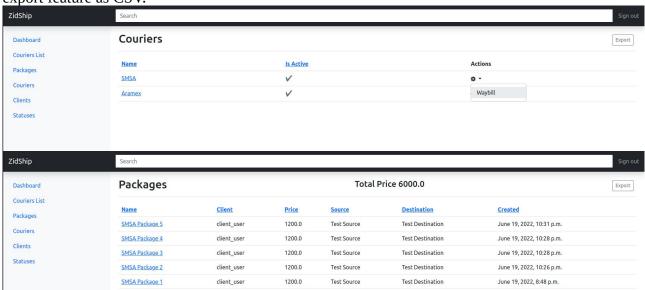
- Export function, will generate CSV file with the packages in the system
- 4- Sidebar, Admins can view all the tabs but the Normal user can view Dashboard and Courier List

Courier List



Courier list is for display the courier waybills and it contains the following:

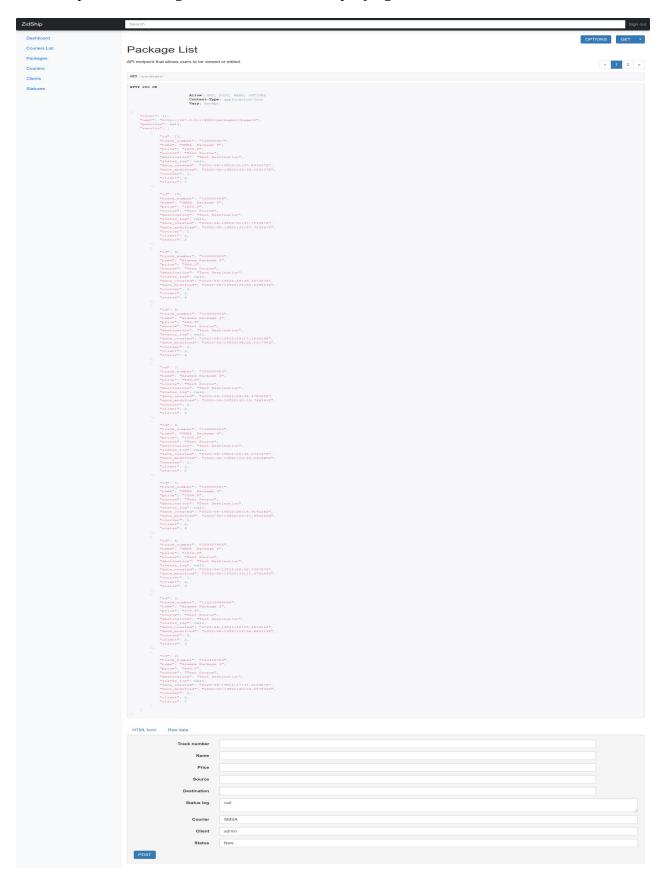
- 1- Courier name, the system will redirect to the courier details view.
- 2- Admin can activate / deactivate the couriers
- 3- Actions button, the system will redirect to packages list with the prices and total price with export feature as CSV.



4- Export all the couriers in the system in CSV format.

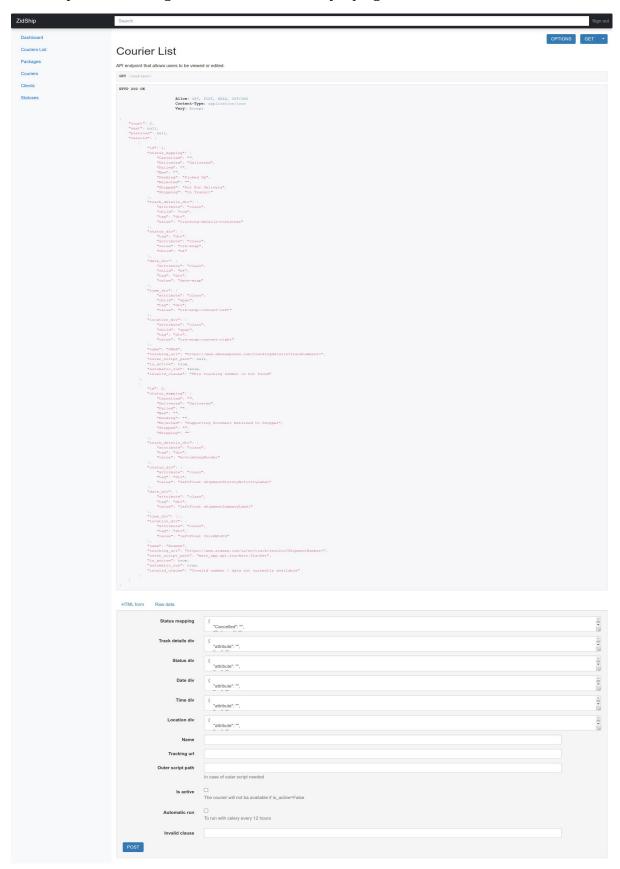
Packages:

This is implemented using REST API framework by Django.



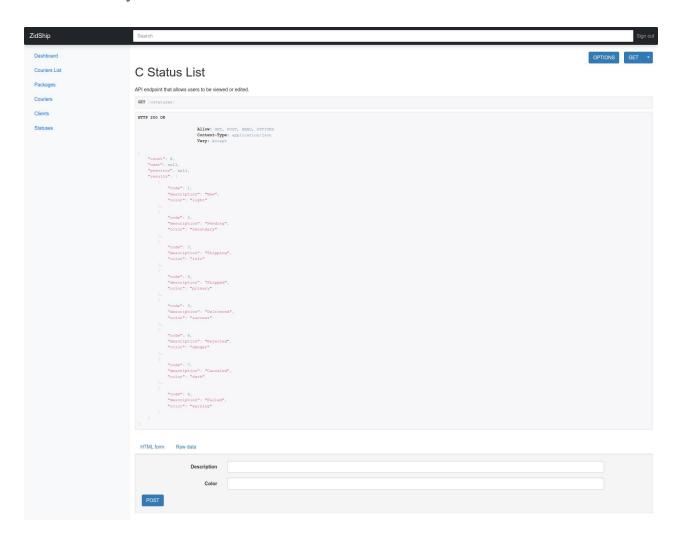
Courier:

This is implemented using REST API framework by Django.



C Status:

This is implemented using REST API framework by Django. This table is a constant table for the statuses in the system



Clients:

This is implemented using REST API framework by Django.

