Working environment set up

1. Please set up the Python 3 working environment.

2. Open the command window activate the Python 3 environment.

   Run "pip -V" to check if it has been installed. If the package installer "pip" is not installed, please install "pip" first. https://pip.pypa.io/en/stable/installing/

   If the Django framework has not been installed, please install Django. "**pip install Django**"

Run the application

1. In the command window, change directory to the project directory. "…/dorabot>" where the "manage.py" located.

2. Please type "python manage.py runserver" and enter, server should be running now.

3. Then open the browser and type in the local host address: http://127.0.0.1:8000/.

   You should be able to use the application.

4. Please **only use** the .txt (same format as the "inventory.txt" provided) for the test (as specified in the task notes, "You can assume valid input").

Test result

When Testing the program, I noticed, the black function might generate two plans which have the same optimal utilization. I designed the application to display all optimal loading plans to the user.

If there is only one optimal ordering plan, only this plan will be displayed.

Please let me know if any changes need to be made to the application. Thank you for your time to read the document and run the application!

dorabot

Welcome to Dorabot!

This application is designed to help customer determine optimaised loading plans of inventory into enclosures.

Learn more about Dorabot

#	Utilisation (%)	Order	Volume (m3)	Weight (kg)
1	89	['22', '2', '26', '17', '4', '27', '7', '13', '12', '25', '10', '19', '5', '9', '28', '18', '24', '6', '15', '29', '23', '30', '1', '21', '14', '11', '8', '16', '3', '20']	433.4	13.02
2	89	['26', '19', '27', '3', '16', '25', '9', '2', '1', '5', '29', '30', '12', '11', '22', '21', '8', '13', '4', '7', '24', '10', '23', '14', '15', '6', '28', '18', '20', '17']	433.4	13.02

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