Skroutz Last Mile Technical Assignment

Objective:

Implement a sorting system for scanning warehouse packages

Description:

Our warehouse has currently received the following ten packages and whose delivery postcode is provide:

Voucher	Postcode
A1A	10041
B2B	11332
C3C	10042
D4D	11342
E5E	11444
F6F	16788
G7G	16788
H8H	10043
I9I	16800
J0J	16801

The packages will be allocated to a driver based on the cluster that each driver belongs to:

Driver	Cluster
Moe	A

Larry	B
Curly	C

Packages are organized in clusters based on their postcode:

Cluster	Postcodes
A	10XXX
B	11XXX
C	16XXX

Assignment:

You are required to implement a system for the warehouse team that will inform them of the packages that each driver needs to pick up. In addition, the system needs to track each item that is picked up and scanned by the warehouse team, showing which drivers are ready and which packages are missing from the rest.

You can assume that when a package is scanned, it's barcode is typed in as an input and submitted. (We can simulate this by typing vouchers in an input field and pressing enter). Packages are scanned one at a time.

Deliverable:

We expect you to build an API that will sort the packages accordingly and will handle requests for scanned packages. For the frontend, you may use a simple html form or an SPA framework, it's up to you, all we need is a way to interact with the API and to view the results.

The deliverable should be posted in a git repository, together with instructions for running and testing.

*It would be great if you can provide an endpoint for resetting the state of the system so we can retest.