

Model API Design (For SLS engineer team)

1. Request Method:

The program language is Golang.

1. import module : onlineContainerLoadingModel
- 2.call function: onlineContainerLoadingModel.load()

1. Function Input Variables :

onlineContainerLoadingModel.load()

Variable Name	Data Type	Description	example	nullable/zero value
checkoutId	string	checkout id or request id	"bastketi-fdfaf-fda--dfdaf1343"	False
containerMaxDim	struct length float width float height float	the dimension of biggest container.	containerMaxDim.length = 120 containerMaxDim.height =140 containerMaxDim.width =160	False
skuList	slice of struct struct: skuId string length float width float height float	multiple SKU in the checkout request. At most 200 SKU in a checkout request. Otherwise return an error	[sku1, sku2, sku3] sku1.skuId = "123dffdd-3242-111" sku1.length = 10 sku1.width = 20 sku1.width = 30	False

2.Function Output Variables :

onlineContainerLoadingModel.load()

Variable Name	Data Type	Description
containerDim	struct: length float width float height float	An container struct has three attributes: 1. length 2. width 3. height

error	go error type	<p>Error type:</p> <ol style="list-style-type: none"> 1. No feasible solution (SKUs are too big to pack in a container) 2. Wrong input data. (input data of model is wrong) 3. Too many SKUs (SKUs are more than 200 in a checkout request) 4. nil (no error)
latency	float	latency time; example: 0.002(2ms).
skuPositions	<p>slice of struct</p> <p>skuId string</p> <p>startHeight float</p> <p>startLength float</p> <p>startWidth float</p> <p>endHeight float</p> <p>endLength float</p> <p>endWidth float</p>	<p>This variable records positions of SKUs in the checkout request</p> <p>each struct fixes position of a SKU by its left-front-bottom and right-behind-top points.</p>