RESTful API Design – Notes

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Modelling

Modelling steps	Modelling rules
Identify all the participants and their roles	Don't worry about tools
Discover their activities	Have a consistent process
Break into steps	Write down understandings
Create API definitions	
Validate your API	

Mapping activities to Nouns and Verbs – Life cycle

Products-portal (noun)			
Activity	Noun/verb Mapping		
List items	GET /items		
View items	GET /items/:id		
Search items	GET /items?search=something		
Add items	POST /items/		
Edit items	PUT /items/:id		

Cart (noun)		
Activity	Noun/verb Mapping	
Add item	POST carts/:id/items/:id	
Remove item	DELETE carts/:id/items/:id	
Clear cart	DELETE /carts/:id	
View cart	GET /carts/:id	
Checkout	POST carts/:id/checkout	

Order (noun)		
Activity	Noun/verb Mapping	
List order for customer	GET /orders/:id	
Obtain order status GET /orders/:id		
Cancel order	DELETE /orders/:id	

Customer (noun)		
Activity Noun/verb Mapping		
Search for customer	GET /customers/:id	
View customer	GET /customers/:id	
Add customer	POST /customers	

Designing relationships – THREE types

Independent: When resources can be accessed independently.

Dependent: where one resource cannot exist without the parent, example: order-customer.

Associative: the resources with associative relationship might exist independent, but their relations also gives new properties. They can be combined to make a new resource.

HTTP response codes

2xx	Зхх	4xx
200 ok	301 moved permanently	400 bad request
201 created	302 moved temporarily	401 authentication required
202 accepted		403 forbidden
204 no content		404 not found

Content type

Content-type: application/json; charset=utf-8

Limiting the requests against the API

X-rateLimit-Limit: 200 X-rateLimit-Remaining: 155 X-rateLimit-Reset: 6584256374