

Design Document

Problem Statement

Design a RESTful API for an online store which can be used to manage different products.

Tech Stack

Node JS

Node is used in building fast, scalable network applications, as it's capable of handling a huge number of simultaneous connections with high throughput, which equates to high scalability. It operates on a single-thread, using non-blocking I/O calls, allowing it to support tens of thousands of concurrent connections.

MySQL

MySQL is a powerful, free open-source database management system that has been around for years. It is very stable and has a big community that helps maintain, debug and upgrade it.

API Structure

HTTP Verb	Path	Action	Request Param	Success Response	Headers
GET	/home	index		{ "status": 200,"sucsess":true,"message": "Wingify Online Store challenge welcomes you" }	
POST	/users/signup	Create user	{ "email": "hi@gmail.com", "password": "hi manshu009", "user_role": "admin"/"user" }	{ "status": 200, "sucsess": true, "data": {"user_id": 18, "email": "xxhi@gmail.com", "auth_token": "u@HAMn9VG&DATIZogtFSAu wg@LaPLTuf" } }	{ "api_key": "ahjgdj87698bjb89#sfksdfsfb#278" }

HTTP Verb	Path	Action	Request Param	Success Response	Headers
POST	/user/login	Login User	{ "email":"him@gmail.com", "password":"himanshu009" }	{ "status":200,"success":true,"data":{ "id":15,"email":"him@gmail.com", "auth_token":"bXyyXsHb1XB78w0nyOts08GiUMbQPdlz" }} }	{ api_key : "ahjgdj87698bjb89#sfksdfsfb#278" }
POST	/products/create	Create Product	{ "product_name":"grey watch women", "product_sku":"himanshu009", "product_desc":"This is test product", "product_price":100, "active":true }	{ "status":200,"success":true,"data":{ "product_id":8,"product_name":"grey watch women", "product_url":"grey watch women-5VpQRn" }} }	{ api_key : "ahjgdj87698bjb89#sfksdfsfb#278", user_id : 8, auth_token: "jfB4UTO09OT9J3#DiT9Uq5wRnedGAkJI" }
DELETE	products/delete?id=8	Delete a product		{ "status":200,"success":true,"message": "Product successfully deleted" }	{ api_key : "ahjgdj87698bjb89#sfksdfsfb#278", user_id : 8, auth_token: "jfB4UTO09OT9J3#DiT9Uq5wRnedGAkJI" }

HTTP Verb	Path	Action	Request Param	Success Response	Headers
POST	/products/ delist?id =8	Delist a product (Only admin can do that)		{ "status": 200,"sucsess":true,"message": "Product deactivated successfully successfully" }	{ api_key : "ahjgdj87698bj b89#sfksdfsfb# 278", user_id : 8, auth_token: "jfB4UTO09OT 9J3#DiT9Uq5w RnedGAkJI" }
POST	/products/ update	To update a product	{ "product_name ":"himanshu", "product_id" : 2, "product_desc" :"This is another test product", "product_price" :100 }	{ "status": 200,"sucsess":true,"data":{ "product_name ":"himanshu", "product_desc": This is another test product", "product_price":100, "product_id":6 } }	{ api_key : "ahjgdj87698bj b89#sfksdfsfb# 278", user_id : 8, auth_token: "jfB4UTO09OT 9J3#DiT9Uq5w RnedGAkJI" }

HTTP Verb	Path	Action	Request Param	Success Response	Headers
GET	/products/detail?id=8	To get Individual product detail		{ "status": 200, "success": true, "data": { "product_name": "grey watch women", "product_sku": "himan sh009", "date_added": "2017-01-26T06:59:40.000Z", "product_desc": "This is test product", "product_price": 100, "product_url": "grey watch women-5VpQRn" } }	{ api_key : "ahjgdj87698bjb89#sfksdfsfb#278", user_id : 8, auth_token: "jfB4UTO09OT9J3#DiT9Uq5wRnedGAkJl" }

HTTP Verb	Path	Action	Request Param	Success Response	Headers
GET	/products/search?q=watch			<pre>{ "status": 200, "sucsess": true, "data": [{ "product_name": "watch", "product_desc": "This is test product", "product_url": "watch - KWmeHP", "product_price": 100, "date_added": "2017-01-26T04:23:56.000Z" }, { "product_name": "grey watch women", "product_desc": "This is test product", "product_url": "grey watch women-5VpQRn", "product_price": 100, "date_added": "2017-01-26T06:59:40.000Z" }] }</pre>	<pre>{ api_key : "ahjgdj87698bjb89#sfksdfsfb#278", user_id : 8, auth_token: "jfB4UTO09OT9J3#DiT9Uq5wRnedGAkJl" }</pre>