WATER ORDER BOOKING V1 - DETAILED DESIGN

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Document Information

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V1.0	23/02/2021	Initial Version	Pushpinder Kaur

API Description

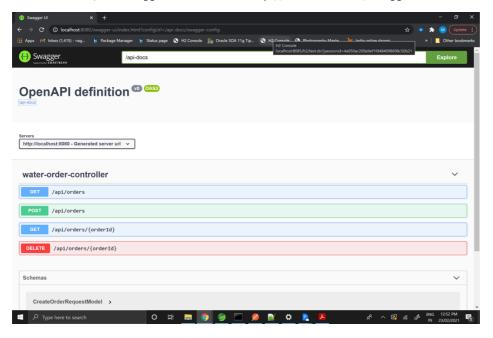Water Order API allows farmers to book, search and cancel orders

API Specifications

At high level, Order API resource structure is outlined below

Resources	Verb	URI
orders	POST	/api/orders
orders	GET	/api/orders/{id}
orders	GET	/api/orders?farmerId=111
orders	DELETE	/api/orders

SWAGGER

On server start, the swagger is available at http://localhost:8080/swagger-ui.html

CREATE ORDER

/api/orders (POST)	
Description	Create new order
200 Status code	API responds successfully with created order details
404 Status code	Resource not found
405 Status code	Method not allowed
400 Status	Bad Request
500 Status	Past time booking, or not available booking or technical error

Sample Request body	{
	
	 "farmerId": "farmer199",
	
	 "startDateTime": "2021-02-24 22:37",
	
	 "duration": 40
	
	 }

Sample Response	{
	
	 "farmerId": "farmer199",
	
	 "startDateTime": "2021-02-24T22:37:00",
	
	 "duration": 40,
	
	 "orderId": "order003"
	
	 }

GET ORDER BY ORDER ID

/api/orders/{id} (GET)	
Description	Returns order by order id
200 Status code	API responds successfully with data retrieved from Mock Service
404 Status code	Resource not found
405 Status code	Method not allowed
400 Status	Bad Request
500 Status	Any other business or technical error
Sample Request	/api/orders/order001

Sample Response	{
	
	    "orderId": "order001",
	
	    "farmerId": "farmer199",
	
	    "startDateTime": "2021-02-24T12:37:00",
	
	    "duration": 140,
	
	    "status": "REQUESTED"
	
	}

GET ALL ORDERS FOR A FARMER

/api/orders?farmerId=?(GET)	
Description	Returns order by order id
200 Status code	API responds successfully with data retrieved from Mock Service
404 Status code	Resource not found
405 Status code	Method not allowed
400 Status	Bad Request
500 Status	Any other business or technical error
Sample Request	http://localhost:8080/api/orders?farmerId=farmer199

Sample Response	{
	
	    "orderId": "order001",
	
	    "farmerId": "farmer199",
	
	    "startDateTime": "2021-02-24T12:37:00",
	
	    "duration": 140,
	
	    "status": "REQUESTED"
	
	}

CANCEL ORDER

/api/orders/{orderId} (DELETE)	
Description	Cancels an existing order (in REQUESTED state only)
200 Status code	API responds successfully with order cancelled message
404 Status code	Resource not found
405 Status code	Method not allowed
400 Status	Bad Request
500 Status	Order not exist, or already being delivered or delivered, or technical error
Sample Request	http://localhost:8080/api/orders/order001
Sample Response	{
	"message": "Order Cancelled",
	"status": "OK"
	}

API FIELDS

Field name	Description	Data type
farmerId	Farmer identifier, booking the order.	String
orderId	Unique identifier for order	String
startDateTime	Date-time for the order to start in format: yyyy-MM-dd HH:mm	LocalDateTime