

# The Coffee Shop Project - API Contract

ID		1
Use Case		Customer Login
Version		1.0.0
Request	URL	1 {host}/1.0.0/cust/login
	HTTP Method	POST
	Headers	1 Content-Type: application/json
	Query Body	1 { 2     "dialCode": "+84" 3     "phone": "966773510", 4     "passCode": "{b1ob2}"                 // hashed with salt and encrypted by public key 5 }
Response	Success	<b>Status Code:</b> 200 OK  <b>Response Body:</b>  1 { 2     "accessToken": "...",                 // jwt token which will be passed as header in subs 3     "expiredIn": 300,                 // seconds 4 }
	Errors	400 - BAD REQUEST  500 - INTERNAL SERVER ERROR

ID		2
Use Case		Customer Registration
Version		1.0.0
Request	URL	1 {host}/1.0.0/cust/register
	HTTP Method	POST
	Headers	1 Content-Type: application/json
	Query Body	1 { 2     "dialCode": "+84" 3     "phone": "966773510", 4     "firstName": "John", 5     "lastName": "Smith" 6     "address" : { 7         "additionalAddress": "...", 8         "administrativeAreaLevel1": "...", 9         "city": "...", 10        "countryCode": "...", 11        "state": "...", 12        "zipCode": "..." 13     } 14 }
Response	Success	Status Code: 201 OK  Response Body:  1
	Errors	400 - BAD REQUEST  500 - INTERNAL SERVER ERROR

ID		3
Use Case		Customer - find nearby coffee shops
Version		1.0.0
Request	URL	1 {host}/1.0.0/shops/nearby
	HTTP Method	GET
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Parameter	1 ?latitude=40.7128&longitude=-74.0060&radius=5000&page=1&limit=10
Response	Success	<p>Status Code: 200 OK</p> <p>Response Body:</p> <pre>1 { 2   "total_shops": 25, 3   "page": 1, 4   "limit": 10, 5   "shops" : [ 6     { 7       "shop-id": {{uuid}}, 8       "name": "The Coffee House", 9       "status": "OPEN",           // OPEN, CLOSED 10      "distance": "1.5km", 11      "logo" : {{s3 url}} 12    }, 13    { 14      ... // More shops 15    } 16  ] 17 }</pre>
	Errors	<p>400 - BAD REQUEST</p> <p>500 - INTERNAL SERVER ERROR</p>

ID		4
Use Case		Customer - View the menu of the selected shop
Version		1.0.0
Request	URL	1 {host}/1.0.0/shops/{{shop-id}}/menu
	HTTP Method	GET
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1
Response	Success	<p>Status Code: 200 OK</p> <p>Response Body:</p> <pre>1 { 2   "menu": [ 3     { 4       "id": {{uuid}}, 5       "name": "Espresso", 6       "description": "A single shot of espresso", 7       "price": 2.50 8     }, 9     { 10      "id": {{uuid}}, 11      "name": "Latte", 12      "description": "Espresso with steamed milk", 13      "price": 3.50 14    }, 15    { 16      "id": {{uuid}}, 17      "name": "Cappuccino", 18      "description": "Espresso with equal parts of steamed milk and foam", 19      "price": 4.00 20    } 21  ] 22 }</pre>
	Errors	<p>400 - BAD REQUEST</p> <p>500 - INTERNAL SERVER ERROR</p>

ID		5
Use Case		Customer - Order
Version		1.0.0
Request	URL	1 {host}/1.0.0/shops/{{shop-id}}/order
	HTTP Method	POST
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1 { 2 "items": [ 3 { 4 "id": {{uuid}}, 5 "quantity": 2 6 }, 7 { 8 "id": {{uuid}}, 9 "quantity": 1 10 } 11 ] 12 }
Response	Success	<b>Status Code:</b> 201 OK  <b>Response Body:</b>  1 { 2 "order_id": {{uuid}}, 3 "total_price": 8.50, 4 "items": [ 5 { 6 "id": {{uuid}}, 7 "name": "Espresso", 8 "quantity": 2, 9 "subtotal": 5.00 10 }, 11 { 12 "id": {{uuid}}, 13 "name": "Latte", 14 "quantity": 1, 15 "subtotal": 3.50 16 } 17 ] 18 }
	Errors	400 - BAD REQUEST  500 - INTERNAL SERVER ERROR

ID		6
Use Case		Customer - Order
Version		1.0.0
Request	URL	1 {host}/1.0.0/shops/{{shop-id}}/order
	HTTP Method	POST
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1 { 2 "items": [ 3 { 4 "id": {{uuid}}, 5 "quantity": 2 6 }, 7 { 8 "id": {{uuid}}, 9 "quantity": 1 10 } 11 ] 12 }
Response	Success	<b>Status Code:</b> 201 OK  <b>Response Body:</b>  1 { 2 "order_id": {{uuid}}, 3 "total_price": 8.50, 4 "items": [ 5 { 6 "id": {{uuid}}, 7 "name": "Espresso", 8 "quantity": 2, 9 "subtotal": 5.00 10 }, 11 { 12 "id": {{uuid}}, 13 "name": "Latte", 14 "quantity": 1, 15 "subtotal": 3.50 16 } 17 ] 18 }
	Errors	400 - BAD REQUEST  500 - INTERNAL SERVER ERROR

ID		7
Use Case		Customer - View their orders by criteria
Version		1.0.0
Request	URL	1 {host}/1.0.0/cust/orders
	HTTP Method	GET
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Parameters	1 ?status=completed&start_date=2022-03-01&end_date=2022-03-31&page=1&limit=10
Response	Success	<p>Status Code: 200 OK</p> <p>Response Body:</p> <pre>1 { 2   "total_orders": 25, 3   "page": 1, 4   "limit": 10, 5   "orders": [ 6     { 7       "order_id": {{uuid}}, 8       "status": "COMPLETED", 9       "total_price": 8.50, 10      "items": [ 11        { 12          "id": "1", 13          "name": "Espresso", 14          "quantity": 2, 15          "subtotal": 5.00 16        }, 17        { 18          "id": "2", 19          "name": "Latte", 20          "quantity": 1, 21          "subtotal": 3.50 22        } 23      ], 24      "date": "2022-03-15T10:30:00Z" 25    }, 26    { 27      ... // More orders 28    } 29  ] 30 }</pre>
	Errors	<p>400 - BAD REQUEST</p> <p>500 - INTERNAL SERVER ERROR</p>

ID		8
Use Case		Customer - View specific order
Version		1.0.0
Request	URL	1 {host}/1.0.0/cust/orders/{{order-id}}
	HTTP Method	GET
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1
Response	Success	<p>Status Code: 200 OK</p> <p>Response Body:</p> <pre>1 { 2   "order_id": {{uuid}}, 3   "status": "WAITING",           // PENDING, IN_QUEUE, PROCESSING, READY_FOR_P 4   "queue_position": 3, 5   "waiting_time": "5",          // minutes 6   "total_price": 8.50, 7   "reference_number": "ORD20220315001", // Reference number for the order 8   "items": [ 9     { 10      "id": "1", 11      "name": "Espresso", 12      "quantity": 2, 13      "subtotal": 5.00 14    }, 15    { 16      "id": "2", 17      "name": "Latte", 18      "quantity": 1, 19      "subtotal": 3.50 20    } 21  ] 22 }</pre>
	Errors	400 - BAD REQUEST  500 - INTERNAL SERVER ERROR



ID		9
Use Case		Customer - Cancel order
Version		1.0.0
Request	URL	1 {host}/1.0.0/cust/orders/{{order-id}}/cancel
	HTTP Method	PUT
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1
Response	Success	Status Code: 200 OK  Response Body:  1 "message": "Order ORD20220315001 has been successfully canceled."
	Errors	400 - BAD REQUEST  500 - INTERNAL SERVER ERROR

ID		10
Use Case		Shop Admin - Login
Version		1.0.0
Request	URL	1 {host}/1.0.0/owner/login
	HTTP Method	POST
	Headers	1 Content-Type: application/json
	Query Body	1 { 2     "username": "shopowner123" 3     "password": "{{blob2}}"             // hashed with salt and encrypted by public key 4 }
Response	Success	<b>Status Code:</b> 200 OK  <b>Response Body:</b>  1 { 2    "accessToken": "...",             // jwt token which will be passed as header in subs 3    "expiredIn": 300,             // seconds 4 }
	Errors	400 - BAD REQUEST  401 - UNAUTHORIZED  500 - INTERNAL SERVER ERROR

ID		11
Use Case		Shop Admin - Get config
Version		1.0.0
Request	URL	1 {host}/1.0.0/owner/shops/{shop-id}/config
	HTTP Method	GET
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1
Response	Success	<p>Status Code: 200 OK</p> <p>Response Body:</p> <pre>1 { 2   "location": "175B Cao Thang St, Dist. 10, Hochiminh City", 3   "contacts": { 4     "phone": " +84 28 7303 9079", 5     "email": "thecoffeehouse@example.com" 6   }, 7   "open_time": "08:00", 8   "close_time": "21:00" 9 }</pre>
	Errors	<p>400 - BAD REQUEST</p> <p>401 - UNAUTHORIZED</p> <p>500 - INTERNAL SERVER ERROR</p>

ID		12
Use Case		Shop Admin - Update config
Version		1.0.0
Request	URL	1 {host}/1.0.0/owner/shops/{shop-id}/config
	HTTP Method	PUT
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1 { 2 "location": "175B Cao Thang St, Dist. 10, Hochiminh City", 3 "contacts": { 4 "phone": " +84 28 7303 9079", 5 "email": "thecoffeehouse@example.com" 6 }, 7 "open_time": "08:00", 8 "close_time": "21:00" 9 }
Response	Success	Status Code: 200 OK  Response Body:  1
	Errors	400 - BAD REQUEST  401 - UNAUTHORIZED  500 - INTERNAL SERVER ERROR

ID		13
Use Case		Shop Operator - See list of queues and numbers of waiting customer
Version		1.0.0
Request	URL	1 {host}/1.0.0/owner/shops/{shop-id}/queues
	HTTP Method	GET
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1
Response	Success	<p>Status Code: 200 OK</p> <p>Response Body:</p> <pre>1 { 2   "shop_id": {{uuid}}, 3   "shop_name": "The Coffee House A", 4   "queues": [ 5     { 6       "queue_id": "queue_001", 7       "size": 10 8       "waiting_customers": 5 9     }, 10    { 11      ... // More queues, max 3 12    } 13  ] 14 }</pre>
	Errors	<p>400 - BAD REQUEST</p> <p>401 - UNAUTHORIZED</p> <p>500 - INTERNAL SERVER ERROR</p>

ID		14
Use Case		Shop Operator - See specific queue and orders info
Version		1.0.0
Request	URL	1 {host}/1.0.0/owner/shops/{shop-id}/queues/{queue-id}
	HTTP Method	GET
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1
Response	Success	<p>Status Code: 200 OK</p> <p>Response Body:</p> <pre>1 { 2   "shop_id": {{uuid}}, 3   "shop_name": "The Coffee House A", 4   "queue_id": "queue_001", 5   "size": 10 6   "waiting_customers": 5, 7   "queue": [ 8     { 9       "order_id": {{uuid}}, 10      "customer_name": "John Smith", 11      "customer_score": 99 12      "waiting_time": "5",           // minutes 13      "reference_number": "ORD20220315001", // Reference number for the order 14      "items": [ 15        { 16          "id": "1", 17          "name": "Espresso", 18          "quantity": 2 19        }, 20        { 21          "id": "2", 22          "name": "Latte", 23          "quantity": 1 24        } 25      ] 26    }, 27    { 28      ... // More orders 29    } 30  ] 31 }</pre>
	Errors	<p>400 - BAD REQUEST</p> <p>401 - UNAUTHORIZED</p> <p>500 - INTERNAL SERVER ERROR</p>

ID		15
Use Case		Shop Operator - Take an order off the queue and process
Version		1.0.0
Request	URL	1 {host}/1.0.0/owner/shops/{{shop-id}}/queues/{{queue-id}}/orders/{order_id}/process
	HTTP Method	PUT
	Headers	1 Authorization: Bearer {{jwt token}} 2 Content-Type: application/json
	Query Body	1
Response	Success	Status Code: 200 OK  Response Body:  1
	Errors	400 - BAD REQUEST  401 - UNAUTHORIZED  500 - INTERNAL SERVER ERROR