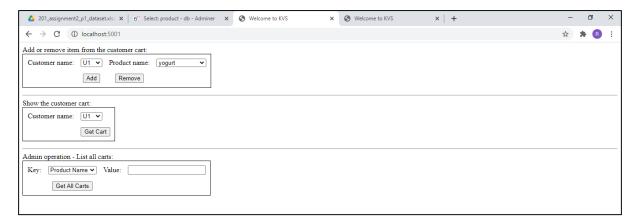
Initial Customer Table:

Modify	cid	cname
edit	1	U1
edit	2	U2
edit	3	U3
edit	4	U4
edit	5	U5
edit	6	U6
edit	7	U7
edit	8	U8
edit	9	U9
edit	10	U10

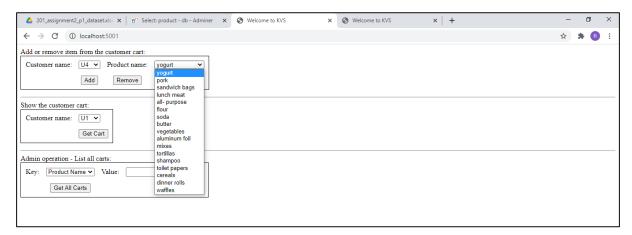
Initial Product Table:

☐ Modify	pid	pname	price	qty
☐ edit	1	yogurt	5	95
☐ edit	2.	pork	10	1000
☐ edit	3	sandwich bags	20	20
☐ edit	4	lunch meat	100	999
☐ edit	5	all- purpose	10	10
☐ edit	6	flour	1000	1000
☐ edit	7	soda	100	100
☐ edit	8	butter	10	10
☐ edit	9	vegetables	10	10
□ edit	10	aluminum foil	10	10
☐ edit	11.	mixes	10	10
□ edit	12	tortillas	10	10
☐ edit	13	shampoo	10	10
☐ edit	14	toilet papers	101	1000
☐ edit	15	cereals	5	10
☐ edit	10	dinner rolls	100	100
□ edit	17	waffles	5	5

Gateway interface – gateway is running on two different instances:



ADD U4 yogurt:



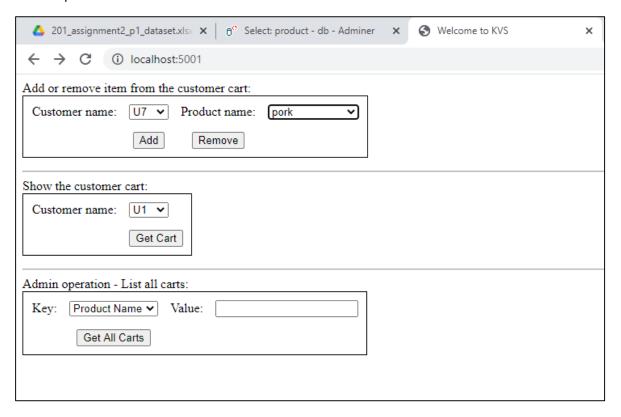
Cart of U4 after ADD U4 yogurt:



Product table qty get reduced for yogurt from 95 to 94:

☐ Modify	pid	pname	price	qty
☐ edit	1	yogurt	5	94
☐ edit	2	pork	10	1000
☐ edit	3	sandwich bags	20	20
_ edit	4	lunch meat	100	999
☐ edit	5	all- purpose	10	10
☐ edit	6	flour	1000	1000
☐ edit	7	soda	100	100
☐ edit	8	butter	10	10
☐ edit	9	vegetables	10	10
☐ edit	10	aluminum foil	10	10
☐ edit	11	mixes	10	10
□ edit	12	tortillas	10	10
☐ edit	13	shampoo	10	10
☐ edit	14	toilet papers	101	1000
☐ edit	15	cereals	5	10
☐ edit	16	dinner rolls	100	100
☐ edit	17	waffles	5	5

ADD U7 pork:



Cart of U7 after ADD U7 pork:



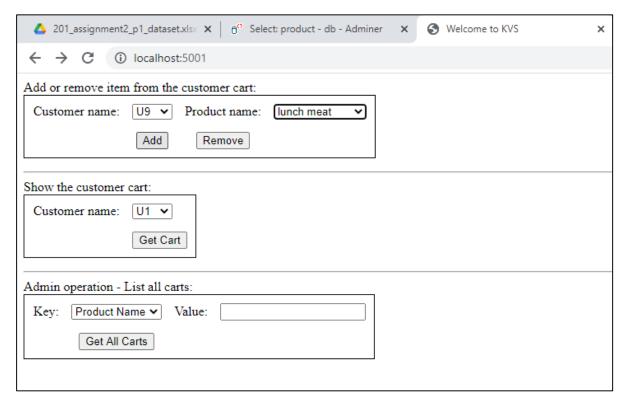
Cart of U7 after U7 DELETE pork:



U9 cart after 'U9 ADD sandwich bags' and 'U9 DELETE sandwich bags' operations:



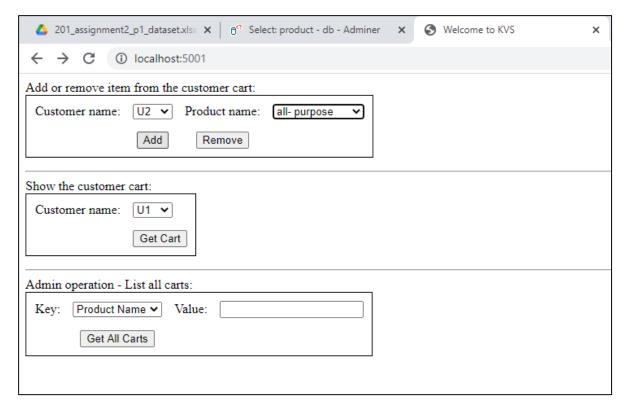
U9 ADD lunch meat operation:



U9 cart after U9 ADD lunch meat operation:



U2 ADD all-purpose operation:



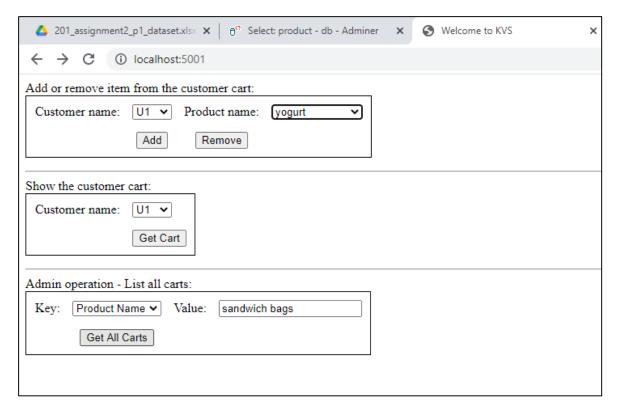
U2 cart after U2 ADD all-purpose:



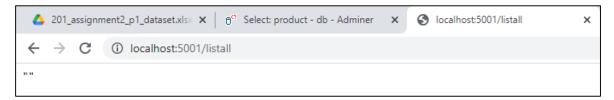
U2 cart after U2 DELETE all-pupose:



LISTALL operation for sandwich bags:



Carts having sandwich bags are None:



Carts having lunch meat are:



Current product table:



After performing all the operations mentioned in the dataset given as sample for the assignment: Get cart for U2:



U2 cart:



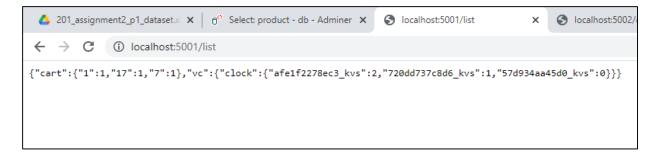
U3 cart:

```
      ▲ 201_assignment2_p1_dataset.x
      6<sup>(2)</sup> Select: product - db - Adminer
      X

      ← → C
      ① localhost:5001/list

      {"cart":{},"vc":{"clock":{"6b3059651104_kvs":4,"57d934aa45d0_kvs":0,"afe1f2278ec3_kvs":2}}}
```

U4 cart:



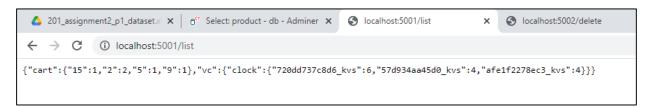
U5 cart:



U6 cart:



U7 cart:



U8 cart:



U9 cart:



U10 cart:



Current product table:

☐ Modify	pid	pname	price	qty
☐ edit	1	yogurt	5	95
_ edit	2	pork	10	999
☐ edit	3	sandwich bags	20	20
_ edit	4	lunch meat	100	998
☐ edit	5	all- purpose	10	9
_ edit	6	flour	1000	1000
☐ edit	7	soda	100	98
_ edit	8	butter	10	9
☐ edit	9	vegetables	10	8
_ edit	10	aluminum foil	10	10
☐ edit	11	mixes	10	10
_ edit	12	tortillas	10	10
☐ edit	13	shampoo	10	9
_ edit	14	toilet papers	101	1000
☐ edit	15	cereals	5	10
_ edit	16	dinner rolls	100	99
☐ edit	17	waffles	5	4

LISTALL product name yogurt:



LISTALL product name pork:



LISTALL product name waffles:

```
      ▲ 201_assignment2_p1_d
      x
      g' Select product - db - A
      x
      g Melcome to KVS
      x
      g localhost:5002/listall
      x
      p main.pdf
      x
      +
      -
      G
      X

      ← → C
      © localhost:5002/listall
      x
      +
      -
      G
      x
      +
      -
      G
      X
      x
      +
      -
      G
      X

      ** (**cust_id*: '4', 'cart': {'1': 1, '17': 1, '7': 1}, '7': 1}, 'vc': {'afelf2278ec3_kvs': 2, '720dd737c8d6_kvs': 1, '57d934aa45d0_kvs': 0}}
      **(**cust_id*: '5', 'cart': {'17': 1, '6': 1}, 'vc': {'afelf2278ec3_kvs': 2, '720dd737c8d6_kvs': 2, 'afelf2278ec3_kvs': 2, 'afelf22
```

Docker containers IP listing:

```
}, IP-06485bd9b9e8788afbd823cc01f105a01d53f8bd6e0448bef7836a068e5aefb": {
    "Name": "shopping-cart-kvs.kvs.4",
    "EndpointID": "110fa772bdbf02e517b7a8e4d58b4df5975affdb533fd75ef8569056a120e4b7",
    "MacAddress": "02:42:0a:00:00:0a",
    "IPv4Address": "10.0.0.10/16",
    "IPv6Address": "10.0.0.10/16",
          ],
"36960881cd5be45f2b6712b1736415067970667d6cece2f70d12a87a84263146": {
"Name": "shopping-cart-kvs_gateway_2",
"EndpointID": "98afdd9db90610fc6a787db5ba35f5a3a201a02ba8193599f676d6fe2cd8827a",
"MacAddress": "02:42:0a:00:00:05",
"IPv4Address": "10.0.0.5/16",
"IPv6Address": "10.0.0.5/16",
          ],
"7b8f42a2c76ed9f30d4f5bc3aea3fa8aa7ce70586fc654eb10def16a667e06a": {
"Name": "shopping-cart-kvs_adminer_1",
"EndpointID": "69cb30a87dfb38944e2bf04120fbbe205a391da80de76dcc3c05631b50fc9149",
"MacAddress": "02:42:0a:00:00:19",
"IPv4Address": "10.0.0.25/16",
"IPv6Address": ""
}
          ];
"5rd934aa45d005c845a057748a2eee4eefefd04294f83bc661fb66800201e18": {
    "Name": "shopping-cart-kvs_kvs_5",
    "EndpointID": "09aed1971bf0631090e4da1075a7a13450b6b536793f0b7dfb884e6f6cb441c1",
    "MacAddress": "02:42:0a:00:00:0b",
    "IPv4Address": "10.0.0.11/16",
    "IPv6Address": ""
                              "Name": "shopping-cart-kvs_db_1",
"EndpointID": "4dc3ld328702ceefd0f8d1b77c0c6d0d4a96ab0e9deebdb696c2cd44df2e1e2b",
"MacAddress": "02:42:0a:00:00:18",
"IPv4Address": "10.0.0.24/16",
"IPv6Address": ""
            ] | 1705dde-3-1 | 1705ddde-3-1 | 1705ddd-3-1 | 1705ddde-3-1 | 1705ddd-3-1 | 1705dd-3-1 | 1705ddd-3-1 | 1705ddd-3-
            }
"9f6f33540013d763c26417fe03ed1f9463e7c2edec1e091ee38a43bfcd252c11": {
    "Name": "shopping-cart-kvs_gateway_1",
    "EndpointID": "8bal2d19f55c0002fbbcb9e8cbd01d7468756783ac775be69019d49dcbb0e1de",
    "MacAddress": "02:42:0a:00:00:07",
    "IPv4Address": "10.0.0.7/16",
    "IPv6Address": "10.0.0.7/16",
            ],
"a732e038185ae6f8311ec592c7b4296e7e9362f27338eed2ed599a9670f49bff": {
"Name": "shopping-cart-kvs_zoo2_1",
"EndpointID": "4f12b2f42770219e73ec9d143f73cd082e3daadfd34604b131a0fd5af234c281",
"MacAddress": "02:42:0a:00:00:02",
"IPv4Address": "10.0.0.2/16",
"IPv6Address": ""

1
            },
"afe1f2278ec3a348c31d482217a1be527fa7313b7e4420b05c0c6619bfafc995": {
    "Name": "shopping-cart-kvs_kvs_3",
    "EndpointID": "05706a1983e929d4f63b5e06fde2d6b439f72dbcc39479e7e5d2fbc2c42f18d2",
    "MacAddress": "02:42:0a:00:00:08",
    "IPv4Address": "10:0.0.8/16",
    "IPv6Address": "10:0.0.8/16",
              ;
"b0d44d7c41f0b7e0859ccefac9e5d624cbf9dee34d801304aae301d1bf378626": {
    "Name": "shopping-cart-kvs_zool_l"
    "Endpoint1D": "7f057a16fc37c611c1597d718787c1870451419975c79a08c9a2f9f3e7a6f486",
    "MacAddress": "02:42:0a:00:00:03",
    "IPv4Address": "10.0.0.3/16",
    "IPv6Address": ""
            },
"d0c8295c4756406dc62c8d7197effa18613128da6b25b38fdb94f2bba6fbca03": {
    "Name": "shopping-cart-kvs_zoo3_1"
    "EndpointID": "64bbd08f0014512208002ca4c28adf5f150fbefffd762687e8effb9d9a777c10",
    "MacAddress": "02:42:0a:00:00:00',
    "IPv4Address": "10.0.0.4/16",
    "IPv6Address": "10.0.0.4/16",
    "IPv6Address": "10.0.0.4/16",
```