

Project API

For purposes of this API description, all URLs are relative to the base url of `http://localhost:8080/delectable`

Also, all data is in JSON format. A GET request will return JSON. A PUT or POST will submit a JSON document.

To keep things simple, no authentication is required to access any resource.

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Menu

- [GET /menu](#)
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-

GET /menu

Returns an array of all menu items in the menu.

HTTP response code: 200 (OK).

Resource URL

/menu

Parameters

None.

Example Request

GET `http://localhost:8080/delectable/menu`

Example Response

```
[{
  "id": 123,
  "name": "Lasagna",
  "price_per_person": 2.49,
  "minimum_order": 6,
  "categories": [{
    "name": "organic"
  }, {
```

```
        "name": "vegetarian"
    }], {
        "id": 124,
        "name": "Buffalo Wings",
        "price_per_person": 1.75,
        "minimum_order": 12,
        "categories": []
    }]
}
```

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GET /menu/{mid}

Returns a detailed description of the menu item identified by {mid}.

HTTP response code: 200 (OK), 404 (Not Found) if {mid} not found or invalid.

Resource URL

/menu/{mid}

Parameters

None.

Example Request

```
GET http://localhost:8080/delectable/menu/123
```

Example Response

```
{
  "id": 123,
  "name": "Lasagna",
  "price_per_person": 2.49,
  "minimum_order": 6,
  "categories": [{
    "name": "organic"
  }, {
    "name": "vegetarian"
  }],
  "create_date": "20160229",
  "last_modified_date": "20160301"
}
```

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Order

- [GET /order](#)
 - [GET /order\[?date=YYYYMMDD\]](#)
 - [PUT /order](#)
 - [GET /order/{oid}](#)
 - [POST /order/cancel/{oid}](#)
-

GET /order

Returns an array of all orders.

HTTP response code: 200 (OK).

Resource URL

/order

Parameters

None.

Example Request

GET *http://localhost:8080/delectable/order*

Example Response

```
[{
  "id": 456,
  "order_date": "20160229",
  "delivery_date": "20160301",
  "amount": 61.92,
  "surcharge": 0,
  "status": "open",
  "ordered_by": "virgil@example.com"
}, {
  "id": 463,
  "order_date": "20160229",
  "delivery_date": "20160302",
  "amount": 63,
  "surcharge": 0,
  "status": "cancelled",
  "ordered_by": "bob@example.com"
}]
```

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GET /order?date=YYYYMMDD

Returns an array of all orders that need to be delivered on YYYYMMDD.

HTTP response code: 200 (OK).

Resource URL

/order?date=YYYYMMDD

Parameters

None.

Example Request

```
GET http://localhost:8080/delectable/order?date=20160301
```

Example Response

```
[{
  "id": 456,
  "order_date": "20160229",
  "delivery_date": "20160301",
  "amount": 61.92,
  "surcharge": 0,
  "status": "open",
  "ordered_by": "virgil@example.com"
}]
```

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PUT /order

Creates an order and returns the ID of that order {oid}.

HTTP response codes: 201 (Created), 'Location' header with link to /order/{oid}. The body of the response will contain the order id, and the URL needed to cancel the order.

Resource URL

/order

Parameters

delivery_date (required): date when order needs to be delivered.

delivery_address (required): address where order needs to be delivered.

personal_info (required): personal information for the person who places the order.

note (required): can be empty.

order_detail (required): a non-empty array of menu items.

Example Request

PUT *http://localhost:8080/delectable/order*

Here is data being PUT

```
{
  "delivery_date": "20160301",
  "delivery_address": "10 West 31st ST, Chicago IL 60616",
  "personal_info": {
    "name": "Virgil B",
    "email": "virgil@example.com",
    "phone": "312-456-7890"
  },
  "note": "Room SB-214",
  "order_detail": [{
    "id": 123,
    "count": 8
  }, {
    "id": 124,
    "count": 24
  }]
}
```

Example Response

```
{
  "id": 456,
  "cancel_url": "/order/cancel/456"
}
```

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GET /order/{oid}

Returns the detail for the order identified by {oid}.

HTTP response code: 200 (OK) or 404 (Not Found) if the order {oid} doesn't exist.

Resource URL

/order/{oid}

Parameters

None.

Example Request

GET *http://localhost:8080/delectable/order/456*

Example Response

```
{
  "id": 456,
  "amount": 61.92,
  "surcharge": 0,
  "status": "open",
  "order_date": "20160229",
  "delivery_date": "20160301",
  "ordered_by": {
    "name": "Virgil B",
    "email": "virgil@example.com",
    "phone": "312-456-7890"
  },
  "delivery_address": "10 West 31st ST, Chicago IL 60616",
  "note": "Room SB-214",
  "order_detail": [{
    "id": 123,
    "name": "Lasagna",
    "count": 8
  }, {
    "id": 124,
    "name": "Buffalo Wings",
    "count": 24
  }]
}
```

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POST /order/cancel/{oid}

Cancels the order identified by {oid}.

HTTP response codes: 204 (No Content), 'Location' header with link to /order/{oid}. The body of the response will be empty.

Resource URL

/order/cancel/{oid}

Parameters

id (required): the ID of the order being cancelled.

Example Request

POST http://localhost:8080/delectable/order/cancel/456

Here is data being POST-ed

```
{
  "id": 456
}
```

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Customer

- [GET /customer](#)
 - [GET /customer\[?key=query_string\]](#)
 - [GET /customer/{cid}](#)
-

GET /customer

Returns an array of all customers that have placed an order in the system.

HTTP response code: 200 (OK).

Resource URL

/customer

Parameters

None.

Example Request

```
GET http://localhost:8080/delectable/customer
```

Example Response

```
[{
  "id": 701,
  "name": "Virgil B",
  "email": "virgil@example.com",
  "phone": "312-456-7890"
}, {
  "id": 713,
  "name": "Bob Sample",
  "email": "bob@example.com",
  "phone": "312-456-7098"
}]
```

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GET /customer?key=query_string

Returns an array of all customers that have placed an order in the system and match the query_string. An empty array

will be returned if no customer matches the query_string.

HTTP response code: 200 (OK).

Resource URL

/customer

Parameters

key (optional): query string (aka keyword) used for search, if none specified, then everything matches.

Example Request

```
GET http://localhost:8080/delectable/customer?key=sample
```

Example Response

```
[{
  "id": 713,
  "name": "Bob Sample",
  "email": "bob@example.com",
  "phone": "312-456-7098"
}]
```

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GET /customer/{cid}

Returns details about customer identified by {cid}, including an array of all orders by that customer.

HTTP response code: 200 (OK) or 404 (Not Found) if customer {cid} doesn't exist.

Resource URL

/customer/{cid}

Parameters

None.

Example Request

```
GET http://localhost:8080/delectable/customer/701
```

Example Response


```
{
  "id": 701,
  "name": "Virgil B",
  "email": "virgil@example.com",
  "phone": "312-456-7890",
  "orders": [{
    "id": 456,
    "order_date": "20160229",
    "delivery_date": "20160301",
    "amount": 61.92,
    "surcharge": 0,
    "status": "open"
  }]
}
```

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Report

- [GET /report](#)
 - [GET /report/{rid}\[?start_date=YYYYMMDD&end_date=YYYYMMDD\]](#)
-

GET /report

Returns an array of report IDs with their corresponding names.

HTTP response code: 200 (OK).

Resource URL

/report

Parameters

None.

Example Request

GET *http://localhost:8080/delectable/report*

Example Response

```
[{
  "id": 801,
  "name": "Orders to deliver today"
}, {
  "id": 802,
  "name": "Orders to deliver tomorrow"
}, {
  "id": 803,
```

```
    "name": "Revenue report"
  }, {
    "id": 804,
    "name": "Orders delivery report"
  }
]
```

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GET /report/{rid}[?start_date=YYYYMMDD&end_date=YYYYMMDD]

Returns the report identified by {rid}. If a start_date and end_date are provided, then use those to narrow the result set.

HTTP response code: 200 (OK) or 404 (Not Found) if {rid} is invalid.

Resource URL

/report/{rid}

Parameters

start_date (optional): the start date for the date range of the report.

end_date (optional): the end date for the date range of the report.

Example Request

```
GET http://localhost:8080/delectable/report/801
```

Example Response

```
{
  "id": 801,
  "name": "Orders to deliver today",
  "orders": [{
    "id": 456,
    "amount": 61.92,
    "surcharge": 0,
    "status": "open",
    "order_date": "20160229",
    "delivery_date": "20160301",
    "ordered_by": {
      "name": "Virgil B",
      "email": "virgil@example.com",
      "phone": "312-456-7890"
    }
  },
  "delivery_address": "10 West 31st ST, Chicago IL 60616",
  "note": "Room SB-214",
  "order_detail": [{
    "id": 123,
    "name": "Lasagna",
    "count": 8
  }, {
    "id": 124,
    "name": "Buffalo Wings",
```

```
        "count": 24
    }], {
        "id": 459,
        "amount": 128.90,
        "status": "open",
        "surcharge": 0,
        "order_date": "20160228",
        "delivery_date": "20160301",
        "ordered_by": {
            "name": "John Doe",
            "email": "john.doe@example.com",
            "phone": "123-456-7890"
        },
        "delivery_address": "123 Main ST, Chicago IL 60617",
        "note": "We need chopsticks",
        "order_detail": [{
            "id": 127,
            "name": "Chicken fried rice",
            "count": 32
        }]
    }]
}
```

Another Example Request

GET http://localhost:8080/delectable/report/803?start_date=20160101&end_date=20160331

Example Response

```
{
    "id": 803,
    "name": "Revenue report",
    "start_date": "20160101",
    "end_date": "20160331",
    "orders_placed": 47,
    "orders_cancelled": 2,
    "orders_open": 45,
    "food_revenue": 513.98,
    "surcharge_revenue": 15
}
```

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Admin

- [PUT /admin/menu](#)
 - [POST /admin/menu/{mid}](#)
 - [GET /admin/surcharge](#)
 - [POST /admin/surcharge](#)
 - [POST /admin/delivery/{oid}](#)
-

PUT /admin/menu

Creates a new menu item entry in the menu.

HTTP response codes: 201 (Created), 'Location' header with link to /menu/account/{mid} where {mid} is the newly assigned ID for the menu item.

Resource URL

/admin/menu

Parameters

name (required): the name of the menu item.

price_per_person (required): the price of this menu item per person.

minimum_order (required): minimum number of orders of this menu item.

categories (required): an array of categories the menu item belongs to, e.g. "organic", "vegan", etc.

Example Request

POST <http://localhost:8080/delectable/admin/menu>

Here is data being PUT

```
{
  "name": "Lasagna",
  "price_per_person": 2.49,
  "minimum_order": 6,
  "categories": [{
    "name": "organic"
  }, {
    "name": "vegetarian"
  }]
}
```

Example Response

```
{
  "id": 123
}
```

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POST /admin/menu/{mid}

Modifies the price for the menu item identified by {mid}.

HTTP response codes: 204 (No Content), 400 (Bad Request) if data is missing from the request or is malformed. 'Location' header with link to /menu/{mid}. The body of the response will be empty.

Resource URL

/admin/menu/{mid}

Parameters

id (required): the ID of the menu item that's being changed.

price_per_person (required): the price of this menu item per person.

Example Request

POST `http://localhost:8080/delectable/admin/menu/123`

Here is data being POST-ed

```
{
  "id": 123,
  "price_per_person": 3.99
}
```

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GET /admin/surcharge

Returns an the current value of the surcharge.

HTTP response code: 200 (OK).

Resource URL

/menu

Parameters

None.

Example Request

GET `http://localhost:8080/delectable/admin/surcharge`

Example Response

```
{  
    "surcharge": 5  
}
```

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POST /admin/surcharge

Modifies the surcharge amount.

HTTP response codes: 204 (No Content), 400 (Bad Request) if data is missing from the request or is malformed. 'Location' header with link to /admin/surcharge. The body of the response will be empty.

Resource URL

/admin/surcharge

Parameters

surcharge (required): the new surcharge amount.

Example Request

POST *http://localhost:8080/delectable/admin/surcharge*

Here is data being POST-ed

```
{  
    "surcharge": 5.00  
}
```

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POST /admin/delivery/{oid}

Modifies the status of order {oid} to "delivered".

HTTP response codes: 204 (No Content), 404 (Not Found) if {oid} not found or invalid. 'Location' header with link to /order/{oid}. The body of the response will be empty.

Resource URL

/admin/delivery/{oid}

Parameters

id (required): the id of the order being updated.

Example Request

POST *http://localhost:8080/delectable/admin/delivery/456*

Here is data being POST-ed

```
{  
  "id": 456  
}
```

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[Virgil Bistriceanu](#)

[cs445](#)

[Computer Science](#)

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