

# Menus Microservice

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## Goal

We need a microservice that will store restaurant menus and individual menu items in a database. These menus and menu items will then be retrieved by ID via web requests. Menus and menu items are represented by JSON objects.

## Code Requirements

- Lumen 5.6
- PHP 7.1
- PSR-2 Coding Style

## Summary of Use

We have an internal application called Menu Builder used for organizing restaurant menus and describing the various customizations available for each menu item. These menus and menu items are described with JSON. The Menus Microservice will be used to store these JSON objects.

When a Menu Builder user saves their menu, the application will post the JSON object for each menu item to the Menus Microservice. As the microservice receives each JSON object it will assign the object a unique ID and store it in the database. The microservice will then return the unique ID to the application.

When a Menu Builder user loads a menu, the application will get the JSON object for each menu item from the Menus Microservice by passing it either a single ID or a list of IDs. The microservice will look up the JSON objects corresponding to these IDs and will return those objects as a JSON array back to the application.

The Menus Microservice does not need to update or delete existing menus and menu items. Only new items will be created. The Menus Microservice must preserve the structure of JSON objects without change except for adding the “id” field to the JSON object when it is stored.

# API Specification

## POST /menus

- payload is JSON menu data
- returns a JSON result with a unique menu\_id

## GET /menus?ids=1,2,3

- ids is an array of menu IDs
- returns a JSON collection of menus

## GET /menus/{menu\_id}

- returns the JSON for a single menu

## POST /menu-items

- payload is JSON menu data
- returns a JSON result with a unique menu\_item\_id

## GET /menu-items?ids=1,2,3

- ids is an array of menu item IDs
- returns a JSON collection of menu items

## GET /menu-items/{menu\_item\_id}

- returns the JSON for a single menu item