

IMPORTANT:

So that I know you've read and understood this document, please put the following sentence at the end of your response:

"They're not gonna make it! They're not gonna make it! You made it!"

## Task Background

This task involves writing a web scraper in Ruby using Mechanize to gather restaurant menu items from a list of menu URLs.

A list of those URLs is at the bottom of this document.

To test your code, you should run your scraper using all of those URLs, to make sure they work.

## Technology Platform

We use Ruby (minimum: 2.4.10, preferred: 3.2.0 ) on Ubuntu 22.04 LTS to run code. We use Mechanize for scraping.

Assume your code will use an HTTP proxy to make requests.

Assume your code will get that proxy information by using command-line flags, like this:

```
$ ruby your_program.rb --proxyurl=<something> --userid=<something> ...
```

## Processing Notes

**The menus are not in a consistent format.** For example, some menus list allergy information right next to the name of the item. Other menus don't. I don't know how many different formats the menus are in. You'll probably need to write specific code for some menus.

For example, these menus are in different formats:

- [Antojitos Dinner Menu](#) - this is a standard menu that shows the price of each item next to the item name:

## Aperitivos

### Tableside Guacamole (GS, VG) - \$15.95

avocado, tomato, garlic, red onion, green olives, cilantro, tortilla chips

### Queso Fundido - \$11.95

menonita cheese, chorizo, ancho spice, flour tortilla

### Tamales (GS) - \$11.95

house made mole poblano, lime crema, onion mojo,  
choice of chicken tinga or beef machaca

### Nachos (GS) - \$16.95

crispy tortillas, queso, black beans, shredded cheese, tomato salsa, sour  
cream, guacamole  
choice of chicken or beef

### Shrimp Tostada (GS) - \$14.95

citrus and ancho marinated shrimp, avocado, cilantro coleslaw, tomato salsa,  
pickled red onions, queso fresco

### Esquites (GS, V) - \$9.95

roasted corn, jalapeño mayonnaise, cotija cheese, ancho spice, cilantro,  
tortilla chips

- The [Dancing Dragons](#) menu doesn't list prices, which is unusual. Leave the 'price' field blank for these:

## Specialty Drinks

Served in a souvenir glass

### Volcano Bay Rum Punch

Cruzan Aged Light rum, Bacardi Razz, fresh pineapple juice, grenadine,  
topped with Bacardi Black

### Toasted Coconut Pineapple

Siesta Key Toasted coconut rum, fresh pineapple juice

### Blue Hawaiian

Malibu coconut rum, fresh pineapple juice, blue curaçao

### Kalarita

El Jimador Blanco tequila, fresh lime juice, orange juice, agave, blood orange  
syrup

**Allergies** - Some people are allergic to certain things, like tree nuts. Restaurant menus often indicate if a menu item has an allergen. We'd like to capture that information.

For example, the menu for [Three Broomsticks](#) lists the allergy information next to each menu item, in two- or three-letter codes:

Adult 17.99 Children 12.99

### Traditional English Breakfast (FS, PS, TNS)

Fresh scrambled eggs, sausage links, black pudding, English bacon, baked  
beans, grilled tomato, sautéed mushrooms and breakfast potatoes.

### Porridge Breakfast (FS, PS, SES, SS, TNS)

Old fashioned steamed oats with fresh fruit and butter croissant.

You'll need to capture those codes, as shown in the output table below.

The codes are explained lower on the menu, too:

**GS** - Gluten Sensitive **DS** - Dairy Sensitive **ES** - Egg Sensitive **PS** - Peanut Sensitive **TNS** - Tree Nut Sensitive **FS** - Fish Sensitive

**SFS** - Shellfish Sensitive **SES** - Sesame Sensitive **SS** - Soy Protein Sensitive

# Output Format

Print output as a text file. Each line should be a valid JSON object. The table below shows the output format to use.

Menu Items		
Field Name	Field Description	Example
RestaurantName	The name of the restaurant that has this food	"Mythos Restaurant"
MenuName	This field contains the name of the menu.	<p>For example, the page for <a href="#">Mythos Restaurant</a> has six menus listed:</p> <ul style="list-style-type: none"><li>• Everyday Menu</li><li>• Dessert Menu</li><li>• Kids' Menu</li><li>• Drink Menu</li><li>• Beer Menu</li><li>• Wine Menu</li></ul> <p>This field would contain one of those menu names ("Everyday Menu", "Dessert Menu", "Kids' Menu"), depending on which menu is being scraped.</p>
ItemGroup	Menu items are usually grouped in appetizers, entrees, beverages, etc. that form different sections of the menu.	"Aperitivos" "Specialty Drinks"
ItemName	The name of the item	"Grilled Lamb Meatballs"
ItemDescription	The menu's description of the item	"grilled spiced lamb, rosemary infused polenta, Kalamata olives and sweet chili marinara, mint chimichurri"
ItemPrice	<p>The price of the item.</p> <p>If the price has a range, put the range here. For example, if the menu item says "Milkshakes: \$6 to \$8", put "Range: \$6 to \$8" here.</p>	<p>These are all valid examples:</p> <p>\$14</p> <p>\$10.99</p> <p>"Range: \$6 to \$8"</p> <p>"Market Price"</p>
IsForKids	Is the item on a kids menu or in a section marked "for kids"?	True or false
CourseCode	<p>Is this an appetizer, entree, dessert, or something else?</p> <p>Some menus use different words for</p>	<p>Choose from one of this list:</p> <p>Appetizer</p> <p>Alcoholic Beverage</p>

	<p>“Appetizer”, like “Starters”. Please convert to “Appetizer”.</p> <p>Likewise, “Soup &amp; Salads” is probably an appetizer. “Sandwiches” are probably Entrees.</p> <p>Some menus use Spanish words for Appetizer, like “Apertivos”. Please translate those to English.</p>	<p>Beverage (if it's not alcoholic)</p> <p>Dessert</p> <p>Entree</p> <p>Meal (for example, if this is a buffet or if the meal automatically comes with an appetizer and/or dessert)</p> <p>Side</p> <p>Snack</p> <p>Other</p>
IsSpicy	<p>Is the menu item listed as “spicy” or “hot”?</p> <p>For now, set this to true if the description contains any of these words: “spicy”, “chile”, “poblano”, “habanero”, “jalapeño”, “jalapeno”,</p>	True or false
ContainsAlcohol	Does the menu item say it contains alcohol?	True or false
IsVegetarian	Is the menu item advertised as vegetarian?	True or false
IsVegan	Is the menu item advertised as vegan?	True or false
AllergyCodesArray	<p>Some menus list allergy codes. Put them here as an array</p> <p>Example: [“GS”, “DS”]</p>	<p>Choose from the following two-letter abbreviations, which should appear on the menu as the two-letter abbreviation</p> <p>GS – Gluten Sensitive</p> <p>DS – Dairy Sensitive</p> <p>ES – Egg Sensitive</p> <p>PS - Peanut Sensitive</p> <p>TNS – Tree Nut Sensitive</p> <p>FS - Fish Sensitive</p> <p>SFS – Shellfish Sensitive</p> <p>SES – Sesame Sensitive</p> <p>SS – Soy Protein Sensitive</p>

# URLs To Scrape

<https://www.universalorlando.com/web/en/us/things-to-do/dining/cafe-la-bamba/lunch-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/flaming-moes/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/luigis-pizza/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/krusty-burger/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-frying-dutchman/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/floean-fortescues-ice-cream-parlour/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/kidzone-pizza-company/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/leaky-cauldron/breakfast-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/leaky-cauldron/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/louies-italian-restaurant/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/mels-drive-in/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/richters-burger-co/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/san-francisco-pastry-company/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/schwabs-pharmacy/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/today-cafe/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/finnegans-bar-grill/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/finnegans-bar-grill/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/finnegans-bar-grill/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/finnegans-bar-grill/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/lombards-seafood-grille/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/lombards-seafood-grille/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/lombards-seafood-grille/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/lombards-seafood-grille/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bumblebee-mans-taco-truck/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-fountain-of-fair-fortune/menu-drink.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-hopping-pot/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/blondies/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-burger-digs/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/cafe-4/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/captain-america-diner/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/cinnabon-ioa/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/circus-mcgurkus-cafe-stoo-pondous/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/comic-strip-cafe/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/croissant-moon-bakery/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/doc-sugrues-desert-kebab-house/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/fire-eaters-grill/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/green-eggs-and-ham-cafe/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/hop-on-pop-ice-cream-shop/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/moose-juice-goose-juice/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/pizza-predattoria/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/three-broomsticks/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/thunder-falls-terrace/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-watering-hole/Menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/wimpys/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/menu.html>  
[https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/kids\\_menu.html](https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/kids_menu.html)  
[https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/dessert\\_menu.html](https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/dessert_menu.html)  
[https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/drink\\_menu.html](https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/drink_menu.html)  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/confisco-grille/navigators-club-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/mythos-restaurant/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/mythos-restaurant/kids-menu.html>

<https://www.universalorlando.com/web/en/us/things-to-do/dining/mythos-restaurant/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/mythos-restaurant/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bambu/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-feasting-frog/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/kohola-reef-restaurant-social/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/whakawaiwai-eats/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/dancing-dragons/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/kunuku-boat/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bend-the-bao/all-day-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bread-box-handcrafted-sandwiches/all-day-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/cinnabon-citywalk/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/hot-dog-hall-of-fame/all-day-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/lone-palm-airport/menu.html>  
[https://www.universalorlando.com/web/en/us/things-to-do/dining/lone-palm-airport/kids\\_menu.html](https://www.universalorlando.com/web/en/us/things-to-do/dining/lone-palm-airport/kids_menu.html)  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/lone-palm-airport/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/lone-palm-airport/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/moes-southwest-grill/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/red-oven-pizza-bakery/all-day-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/voodoo-doughnut/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/antojitos-authentic-mexican-food/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/antojitos-authentic-mexican-food/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/antojitos-authentic-mexican-food/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/antojitos-authentic-mexican-food/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bigfire/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bigfire/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bigfire/desserts-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bigfire/drinks-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bob-marley-a-tribute-to-freedom/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bob-marley-a-tribute-to-freedom/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bob-marley-a-tribute-to-freedom/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/bob-marley-a-tribute-to-freedom/drink-menu.html>  
<https://www.bubbagump.com/location/bubba-gump-orlando-fl/#menus>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-cowfish/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-cowfish/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-cowfish/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/the-cowfish/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/jimmy-buffetts-margaritaville/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/jimmy-buffetts-margaritaville/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/jimmy-buffetts-margaritaville/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/jimmy-buffetts-margaritaville/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/nbc-sports-grill-brew/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/nbc-sports-grill-brew/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/nbc-sports-grill-brew/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/nbc-sports-grill-brew/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/pat-o-briens/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/pat-o-briens/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/pat-o-briens/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/pat-o-briens/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/toothsome-chocolate-emporium-and-savory-feast-kitchen/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/toothsome-chocolate-emporium-and-savory-feast-kitchen/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/toothsome-chocolate-emporium-and-savory-feast-kitchen/milkshakes-desserts-menu.html>

<https://www.universalorlando.com/web/en/us/things-to-do/dining/toothsome-chocolate-emporium-and-savory-feast-kitchen/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/vivo-italian-kitchen/menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/vivo-italian-kitchen/kids-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/vivo-italian-kitchen/dessert-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/vivo-italian-kitchen/drink-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/fat-tuesday/promenade-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/fat-tuesday/waterfront-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/splendido-bar-grill/lunch-and-dinner-menu.html>  
<https://www.universalorlando.com/web/en/us/things-to-do/dining/delizioso-pizza/menu.html>

**All of these menus are set up in a way that requires clicks on individual menus:**

## beachclub

WHERE EVERYONE IS A VIP

Whether you're spending the day soaking in the pool, relaxing in a cabana or working on your tan, this beachy bar and grill is at your service. Cool off with a frozen cocktail, cold beer or refreshing fountain drink. When hunger strikes, snacks and appetizers can be ordered and enjoyed in the open-air restaurant or right from your chair. Located at [Hard Rock Hotel at Universal Orlando](#).

Bites

Beers

Wines

Cocktails

<https://beachclub.constantcontactsites.com/>  
<https://the-kitchen.constantcontactsites.com/acoustic-brunch>  
<https://the-kitchen.constantcontactsites.com/>  
<https://www.thepalm.com/location/the-palm-orlando/#menus>  
<https://velvet-bar.constantcontactsites.com/>  
<http://www.bice-orlando.com/menu>  
<https://gelateria.constantcontactsites.com/>  
<https://mama-dellas-ristorante.constantcontactsites.com/>  
<https://sals-market-deli.constantcontactsites.com/>  
<https://the-thirsty-fish.constantcontactsites.com/>  
<https://trattoria-del-porto.constantcontactsites.com/>  
<https://bula-bar-and-grille.constantcontactsites.com/>  
<https://islands-dining-room.constantcontactsites.com/>  
<https://jakes-american-bar.constantcontactsites.com/>  
<https://orchid-court-lounge.constantcontactsites.com/>  
<https://orchid-court-lounge.constantcontactsites.com/>  
<https://amatista-cookhouse.constantcontactsites.com/>  
<https://drhum-club-kantine.constantcontactsites.com/>  
<https://strong-water-tavern.constantcontactsites.com/>  
<https://bar-17-bistro.constantcontactsites.com/>  
<https://urban-pantry.constantcontactsites.com/>  
<https://atomic-tonic.constantcontactsites.com/>  
<https://bayliner-diner.constantcontactsites.com/>  
<https://galaxy-bowl-restaurant.constantcontactsites.com/>  
<https://the-hideaway-bar-and-grill.constantcontactsites.com/>  
<https://shakes-malt-shoppe.constantcontactsites.com/>  
<https://swizzle-lounge.constantcontactsites.com/>  
<https://beach-break-cafe.constantcontactsites.com/>  
<https://sand-bar.constantcontactsites.com/>  
<https://pier-8-market.constantcontactsites.com/>



<https://sunset-lounge.constantcontactsites.com/>

<https://the-oasis-beach-bar.constantcontactsites.com/>

For the Hard Rock Cafe, start at URL <https://www.hardrockcafe.com/location/orlando/> and click the menu links for:

- Weekend Breakfast Menu:  
[https://www.hardrockcafe.com/location/orlando/files/5333/21-HRC-08118\\_-\\_Orlando\\_Breakfast\\_Menu.pdf](https://www.hardrockcafe.com/location/orlando/files/5333/21-HRC-08118_-_Orlando_Breakfast_Menu.pdf)
- Lunch & Dinner Menu:  
[https://www.hardrockcafe.com/files/5282/23-HRC-03246\\_-\\_EATS\\_Menu\\_May\\_2023\\_Update\\_-M1.pdf](https://www.hardrockcafe.com/files/5282/23-HRC-03246_-_EATS_Menu_May_2023_Update_-M1.pdf)
- Drink Menu:  
[https://www.hardrockcafe.com/files/5282/23-HRC-03817\\_-\\_Drink\\_Menu\\_On\\_Table\\_Smaller\\_Size\\_D1\\_NoBleed.pdf](https://www.hardrockcafe.com/files/5282/23-HRC-03817_-_Drink_Menu_On_Table_Smaller_Size_D1_NoBleed.pdf)
- Gluten Free menu: [https://www.hardrockcafe.com/files/5282/Gluten-Free-Menu\\_NA.pdf](https://www.hardrockcafe.com/files/5282/Gluten-Free-Menu_NA.pdf)