



CANDIDATE TEST

FRONT-END DEVELOPMENT



13 FEBRUARY 2019

THE FABULOUS BIO BEVERAGE ORDERING APPLICATION

 ESTIMATED DURATION: 2-4 HOURS

At The BIO Agency, we like to unwind at the end of the week with a delicious beverage. However, being a digital agency, we want to request our beverages and be notified when they are ready to collect via a delightful user interface.

Therefore, we have decided that we would like you to build the foundations of a beverage ordering and notification application that we can use to order our drinks, allowing us to leave our screens and keyboards only when our mocktails and margaritas are ready to collect!

HOW DOES THE APP FUNCTION?

The application should have 2 main views. The first view needs to show a beverage menu and a queueing system to customers.

The second view needs to display a simple form where customers can place an order for a beverage and submit it. Once orders are submitted, they should appear in the queue.

HOW SHOULD IT BE BUILT?

You are free to use any combination of technologies to build the application. However, please bear in mind that this is a test to showcase your front-end skills. Your capability with HTML, CSS & JavaScript is what we are looking to assess.

You may choose any frameworks and tools to help you but you must be able to articulate the reasons behind your choices.

We are not necessarily looking for a fully fledged application and this is not a test of your design skills. Get as far as you can with the application build in the given duration. Well written, testable code that produces a robust, responsive slice of functionality is more important than a complete, poorly written application.

#1 BEVERAGE MENU

The beverage menu view should show a list of drinks to the customer.

The beverage menu should be displayed on page load once the app initialises and it should pull the data for the menu in from an external source. That source can take the form of any data structure but the application needs to be able to parse it and render it. We have provided a sample beverage menu on the right.

SAMPLE BEVERAGE MENU

- ≡ Sparkling Cranberry Punch
- ≡ Iced Chocolate Delight
- ≡ Raspberry Fizz
- ≡ Virgin Frozen Margarita
- ≡ Summer Punch

#2 BEVERAGE QUEUE

The beverage queue is comprised of three lists:

- ≡ In the Queue
- ≡ Being Mixed
- ≡ Ready to Collect

Once a customer has placed an order for a beverage it should appear in the 'In the Queue' list, indicating to the customer that their drink is being processed.

Items in the queue should show the name of the customer and the name of the beverage.

The mixologist who is making the beverage should be able to interact with the queue, firstly by clicking on list items in the 'In the Queue' list to move them to the 'Being Mixed' list once they are about to make the relevant beverage.

When the beverage is ready, the mixologist should be able to click on the relevant list item in the 'Being Mixed' queue to move it to the 'Ready to Collect' list.

Finally, once the customer has collected their beverage, they should be able to click on the relevant item in the 'Ready to Collect' list to remove it from the queue.

BONUS FUNCTIONALITY

Render each list in the queue from an external data source and make the application periodically refresh itself without having to reload the page to show updates to the queue.

#3 BEVERAGE ORDER FORM

The beverage order form is a simple form that should allow the customer to select a drink from the menu and submit it along with their name to identify themselves.

The beverages should be rendered as a dropdown list and the customer's name should be entered into a text input field.

No validation of the form is required.

BONUS FUNCTIONALITY

Capture the data in the same external data source that supplies the queue.

EXAMPLE SCREEN LAYOUTS

BEVERAGE MENU & QUEUE

DESKTOP

BEVERAGE MENU

Sparkling Cranberry Punch

Iced Chocolate Delight

Raspberry Fizz

Virgin Frozen Margarita

Summer Punch

BEVERAGE QUEUE

IN THE QUEUE

Sparkling Cranberry Punch

JOE

Raspberry Fizz

STEPHEN

Iced Chocolate Delight

JULIA

BEING MIXED

Virgin Frozen Margarita

SHARON

READY TO COLLECT

Sparkling Cranberry Punch

PETER

Sparkling Cranberry Punch

LYDIA

MOBILE

BEVERAGE QUEUE

READY TO COLLECT

Sparkling Cranberry Punch

PETER

Sparkling Cranberry Punch

LYDIA

BEING MIXED

Sparkling Cranberry Punch

JOE

IN THE QUEUE

Sparkling Cranberry Punch

JOE

Raspberry Fizz

STEPHEN

Iced Chocolate Delight

JULIA

BEVERAGE MENU

Sparkling Cranberry Punch

Iced Chocolate Delight

Raspberry Fizz

BEVERAGE ORDER FORM

DESKTOP & MOBILE

ORDER YOUR BEVERAGE

NAME

BEVERAGE

- Please Select -

SUBMIT

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```
[
  {
    "Description" : "B!O Beverage Menu",
    "BeverageBarDate" : "2018-09-28T15:17:40.033+00:00",
    "BeverageIds" : [
      "04d8e4eb-306e-4ff3-a027-7bed4da883f8",
      "0ae5a67d-d055-4fef-9a0a-889001dcb241",
      "1d10b218-f4da-4ae3-a383-de1657dbaa6a",
      "241ae7d5-4ccb-4b74-8783-bbe2c55f162f",
      "2630c442-84a7-4e44-829f-38e15f7fcbbb"
    ],
    "Beverages": [
      {
        "BeverageId" : "04d8e4eb-306e-4ff3-a027-7bed4da883f8",
        "Name" : "Sparkling Cranberry Punch"
      },
      {
        "BeverageId" : "0ae5a67d-d055-4fef-9a0a-889001dcb241",
        "Name" : "Raspberry Fizz"
      },
      {
        "BeverageId" : "1d10b218-f4da-4ae3-a383-de1657dbaa6a",
        "Name" : "Virgin Frozen Margarita"
      },
      {
        "BeverageId" : "241ae7d5-4ccb-4b74-8783-bbe2c55f162f",
        "Name" : "Iced Chocolate Delight"
      },
      {
        "BeverageId" : "2630c442-84a7-4e44-829f-38e15f7fcbbb",
        "Name" : "Summer Punch"
      }
    ]
  }
]
```



```
[
  {
    "OrderCreatedTimeStamp": "2018-12-19T15:07:27.255+00:00",
    "BeverageBarOrderId": "733416c1-89ed-46ab-9484-e88ce05960ad",
    "OrderedBeverage": {
      "BeverageId": "04d8e4eb-306e-4ff3-a027-7bed4da883f8",
      "Name": "Sparkling Cranberry Punch"
    },
    "OrderQuantity": 1,
    "IsBeingMixed": false,
    "IsReadyToCollect": false,
    "IsCollected": false,
    "BeverageBarUserId": "U034AT9TN",
    "BeverageBarUserFirstName": "Lloyd",
    "OrderDeliveredTimeStamp": "0001-01-01T00:00:00+00:00"
  },
  {
    "OrderCreatedTimeStamp": "2018-12-19T15:07:27.255+00:00",
    "BeverageBarOrderId": "6aba8c4f-4d2c-41f7-ac96-dcb3ed0ced1d",
    "OrderedBeverage": {
      "BeverageId": "0ae5a67d-d055-4fef-9a0a-889001dcb241",
      "Name": "Raspberry Fizz"
    },
    "OrderQuantity": 2,
    "IsBeingMixed": true,
    "IsReadyToCollect": false,
    "IsCollected": false,
    "BeverageBarUserId": "U034AT9TN",
    "BeverageBarUserFirstName": "Lloyd",
    "OrderDeliveredTimeStamp": "0001-01-01T00:00:00+00:00"
  }
]
```