

Programming Dynamic Websites (PROG 1800)

Final Exam - JUICE

Marks: 35

Time: 120 minutes

Create an application for a restaurant that will connect to a MongoDB database for storing all the orders. This application should be built using **HTML, CSS, JS, EJS, Node.js and MongoDB** only.

You are given a blank template project named PROG1800_Final_SectionXX.zip.

Create a Header and Footer EJS file that is included in ALL of your files. Your footer should contain your Name, Email Address and Student Number. Your Header should contain links to your order page and your ordering listings.

The Shop sells only 3 items:

- **Chicken Sandwich (\$5.99 each)**
- **French Fries (\$1.99 each)**
- **Soda (\$1.49 each)**

To place an order, a customer is required to provide their **Name and Phone** number. The phone number should be a 10 digit number.

Use only **server side validation** for Name and Phone number.

Do **NOT** use input type number or min/max/required attributes or **CLIENT SIDE** Javascript from HTML for validation.

Create a page to make an order. Once an order is placed, the user should be shown an order confirmation with all the order details ("receipt"), along with **Sub Total (total cost of all juices), Tax (@ 13%) and Total Cost (Sub Total + Tax)**.

Create a separate page to **view all the orders** in a tabular format. The table should show all the information from the orders along with Sub Total (total cost of all items), Tax (@ 13%) and Total Cost (Sub Total + Tax).

Please refer to the wireframes attached to get an idea on what the output may look like. The calculations on the wireframes may or may not be correct.

You are free to choose the design, fonts and colors as long as you fulfill the minimum requirements mentioned.

Use of some basic CSS is expected to make the application user friendly. Feel free to use bootstrap as well.

Submission Checklist:

1. All the code files and image files along with any dependencies zipped properly.

Submission Guidelines:

To submit this evaluation, place all of your work as per the checklist into a single folder. Zip this folder and submit the zipped file to eConestoga. No cover sheet is required. A good way to make sure everything is correct; is to unzip the file you are submitting on a different location on your computer and making sure everything works. Before finishing the exam, student should check that the submission was successful. Incorrect submissions cannot be graded as there is no way to resubmit afterwards.

It is the responsibility of the student to ensure the submission was successful. **Uploading a broken archive(zip) file or a blank archive(zip) file/blank files will receive 0 marks. Submissions not done before the dropbox closes will also receive 0 marks.**

Rubrics:

Item	Marks
Basic HTML and CSS for the 2 pages	5
Create header and footer in EJS	3
Create Orders	9
View Orders	9
Validation for Name	2
Validation for Phone	2
Programming logic, standards, application completeness	3
Name the folder as FinalExamYourName.zip	2
Total	35

Please turn over

Wireframes:

1. Order form page:

Student name / number

Order

Food

View Orders

Order

Food

Name*:

Phone*:

1231231234

Chicken

Sandwich

French Fries:

Sode:

Submit

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2. Order Success/Thank you page:

Student name / number

Order Food
View Orders

Thank you for your order!

Here are your order details:

Name: Test Customer

Phone: 1234567890

Total number of Chicken Sandwich = 2

Total number of French Fries = 3

Total number of Soda = 2

Sub Total = \$20.93

Tax = \$2.72

Total cost = \$23.65

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3. View Orders:

Student name / number

Order Food
View Orders

List of Orders:

Name	Phone	Chicken Sand	French Fries	Soda	Sub Total	Tax	Total
Jack May	740353520	9	2	2	\$61.28	\$7.97	\$69.25
Jane Murray	7708522227	4	7	3	\$42.36	\$5.51	\$47.87
John Walker	5084537234	4	7	1	\$39.38	\$5.12	\$44.50
Alana Perry	9579944875	6	5	8	\$57.81	\$7.52	\$65.32
Kris Murray	1099714345	3	2	3	\$26.42	\$3.43	\$29.85
Jane Allen	5553524798	9	3	6	\$68.82	\$8.95	\$77.77
Jerry	1234567890	1	1	1	\$9.47	\$1.23	\$10.70

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