

Web Application Development Project Submission 2023

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Home page/index page/start page (eg., page user should open first): **index.js**

Using the site - information: To use this ecommerce website, the user should first download the zip file named G00299043. Once this is done, the user should make sure they have node, MySQL downloaded on their system and node, MySQL and express downloaded for folder use. The user should also import the database file g00299043 to MYSQL workbench for use with site. The user should open a command prompt from the folder using cmd command, and then enter node index.js to the prompt. If successful the command prompt should show that username user, and password pass have been applied and authenticated, as well as showing that the server has started on Port 3000. It also shows that it has been connected to the database. The user will then land on the login page and enter user and pass, anything else will result in an error message. Once authenticated the user will land on the home page which is an ejs template. From here the user can browse a home page with a selection of product images in a slider and a jumbotron with site info. It has a header with links to an about us page, Products page and contact form page. The user can enter the products page and select a product to view, from there they can add it to the cart and purchase or continue shopping.

[illegible]

Project Requirements Implementation

| ITEM 1 | Reference |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Allow the customer to enter their login details:</i> | See page "index.html" and the associated JavaScript functions from auth.js and index.js |
| <i>Login details validated (via a login screen) before receiving a summary of the order:</i> | Validation performed using HTML5 on "index.html" page and JS on index.js and auth.js |
| <i>Username set to "user"</i> | user |
| <i>Password set to "pass"</i> | pass |
| <i>Brief description of implementation details:</i> | Implemented in HTML5 and JavaScript, routing in node for login submission on index.js – authentication method set up in auth.js module and form set up in index.html |

| ITEM 2 | Reference |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <i>Perform form validation through JavaScript or HTML to ensure that text fields are not empty, and a valid email address is entered</i> | See page basket.html |
| <i>Brief description of implementation details:</i> | Implemented with HTML5 <form> and types for name, email and address |

| ITEM 3 | Reference |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Include a slideshow or carousel which displays a different image each time the page is loaded;</i> | See page "home.ejs" and the associated JavaScript functions within |
| <i>Brief description of implementation details:</i> | Implemented with HTML 5 and JavaScript on node template page using event listener and scroll however ran out of time to get working correctly |

| ITEM 4 | Reference |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Allow the user to 'purchase' items from the site;</i> | See pages "basket.html" and test.ejs and the associated JavaScript functions within, as well as functions in index.js and t |
| <i>Brief description of implementation details:</i> | Implemented in HTML5 and javascript with node routing by getting product details from database in index.js, product details go up on test.ejs, and add to cart function added to basket.html – ran out of time in getting this working fully, issue in console or database with the way price was being handled as far as I can tell |

| ITEM 5 | Reference |
|-----------------------------------------------------|---------------------------------------------------------------------|
| <i>Use an object or an array in JavaScript;</i> | See page test.ejs <script> |
| <i>Brief description of implementation details:</i> | Object created in localStorage for Product, Quantity and price data |

| ITEM 6 | Reference |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <i>Use at least one custom module in node;</i> | See page "index.js" and the associated JavaScript functions within |
| <i>Brief description of implementation details:</i> | Index.js created as node module to hold server, database and routing functions implemented in javascript |

| ITEM 7 | Reference |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Include capability for handling post and get requests;</i> | See page "index.js" and the associated JavaScript functions within |
| <i>Brief description of implementation details:</i> | <p>Get and post requests implemented in JavaScript for retrieving and displaying product data and posting product data to the server</p> <p>Get request used for home.ejs template file</p> |

| ITEM 8 | Reference |
|-----------------------------------------------------|-------------------------------------------------------|
| <i>Include both static and dynamic content;</i> | See html pages in home directory |
| <i>Brief description of implementation details:</i> | Static html pages created for different website pages |

| ITEM 9 | Reference |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Include the use of templates in Node;</i> | See pages failed.ejs, home.ejs and test.ejs in G00299043/views |
| <i>Brief description of implementation details:</i> | Node template pages implemented as ejs files for the home page, an error page for login and the test.ejs page which allows user to purchase a product and add to cart |

| ITEM 10 | Reference |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <i>Include error messages to provide feedback to user sin case of issues or errors;</i> | See page failed.ejs |
| <i>Brief description of implementation details:</i> | Implemented as a node template in HTML5, and css. Simple page showing error if login in details not correct |

| ITEM 11 | Reference |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <i>Connect to a database that contains relevant site information (eg., product info, prices) using NODE (your database name should be your ATU ID);</i> | See index.js |
| <i>Brief description of implementation details:</i> | Implemented in MYSQL and connection set up in the index.js node module |

| ITEM 12 | Reference |
|-----------------------------------------------------|----------------------------------------------------|
| <i>Use Bootstrap version 5 via CDN</i> | See html pages |
| <i>Brief description of implementation details:</i> | Implemented as part as css for navbars and footers |

Additional information:.....

See html pages for attempt at dark mode button, using HTML, CSS and JavaScript functions – got this to work for the navbar but ran out of time in getting back to complete this for the entire website.

Also ran short on time for Block commenting of code blocks

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