**IN512 2019 Project – Item Review Node Application**

**Due Date:** Friday, 22nd November, 5.00 pm – code freeze

**Value:** 30% of your final mark

**Group Size:** Individual

**Learning Outcomes:** 1-4

For this assignment, you will use **Node.js**, **Express**, **EJS**, **jQuery** and **LESS** with **Visual** **Studio** **Code** to build an item review application. You will also be required to deploy your application to **Heroku**.

In this assessment, you will use various frameworks and libraries, for example, **Skeleton** **CSS**, **Bootstrap**, **jQuery UI**, though you **are not** **allowed** to use **preset templates**.

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| **Functional requirements. The application must have:** | |
| **1** | At least six pages – a login page, a home page, two item pages, a contact page and a 404 page. |
| **2** | A hamburger menu displaying when the navigation bar is scaled to smaller devices. |
| **3** | A login page that contains a form with a username, password and submit input. If the user enters the following credentials: username = **user** and password = **P@ssw0rd123**, s/he will be redirected to the home page. If the user enters incorrect credentials, s/he will be will redirected to the login page. |
| **4** | Two JSON files that hold four item objects. Each object **must** contain the following key/values pairs: **name**, **description** and **image**. |
| **5** | At least two item pages that fetch data from **GitHub Gist** – this data must be displayed in an HTML table. The user also needs to be able to query any number of items, for example, if s/he types ***/jerseys?count=2*** into the address bar, it will only return the first two item objects. |
| **6** | Item rating functionality using **jQuery**. You **need** to display five stars for each item. The user can click the item rating of their choice and it will fill in the appropriate number of stars for that item. |
| **7** | A comment section that contains a form with a name, comment and submit input using **jQuery**. When the user writes and submits their comment, append the contents to a div. Display an avatar image (found online, or we can supply one), name, comment and date/time. |
| **8** | A contact page that contains a form with name, email address and submit input using **jQuery**. When the user submits their information, display the following message “Thank you <name>, we will get in touch soon”. |
| **9** | A 404 page that informs the user if a page is not found. |
| **10** | Pages that are fully styled using LESS. |
| **11** | Your site must fully validate via [Markup Validation Service](https://validator.w3.org/) and [CSS Validation Service](https://jigsaw.w3.org/css-validator/). |
| **12** | Deploy your application to Heroku. |

**Examples:**

Go to Moodle to view examples**.**

**Marking Rubric:**

Attached at the end of this document.

**Submission:**

* All project files must be submitted via GitHub Classroom. Here is the link to the repository you will be using for submission - /<https://classroom.github.com/a/l5q8YUry>

**Marking rubric**

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|  | **10-9** | **8-7** | **6-5** | **4-0** |
| **Requirements** | Application completed with content and functionality fully implemented. Application contains all required pages and content.  JSON files contain the correct number of item objects and key/value pairs.  Querying of JSON data fully implemented.  Rating and comment functionality implemented fully in jQuery.  Application is fully responsive on various devices and a hamburger menu correctly implemented.  Pages are fully styled using LESS.  Application fully deployed to Heroku. | Application completed with content and functionality mostly implemented. Application contains most pages. Some content is missing.  JSON files are present and correctly formatted, but do not contain all required data. Or all data is present, but JSON files are incorrectly formatted.  Querying of JSON data mostly implemented, but some errors in implementation.  Rating and comment functionality mostly implemented in jQuery, but some errors in implementation.  Application is mostly responsive on a variety of devices. Some sections of the application are responsive. Hamburger menu mostly implemented.  Pages are mostly styled using LESS.  Application deployed to Heroku, but some functionality not working/incorrect routing/ file paths, etc. | Application completed with minimal content. Not all pages are included. Some functionality is missing.  JSON files present and contain some data. JSON file may be incorrectly formatted or incomplete.  Querying of JSON data attempted, but not working correctly.  Rating and comment functionality attempted in jQuery, but not working fully.  Application is somewhat responsive on some devices. Hamburger menu attempted, but not fully completed.  Pages are somewhat styled using LESS.  Attempted deployment to Heroku, but site does not load. | Application not completed, or significant amount of content missing.  JSON files not present, or empty. JSON files contain no data.  Querying of JSON data not working at all/not attempted.  Rating and comment functionality in jQuery not working at all/not attempted.  Site not responsive on devices.  Pages are not styled using LESS.  Site not deployed to GitHub Pages. |
| **Code quality** | Code is free of errors and warnings.  Application’s HTML and CSS fully validate.  Correct error checking/handling of user inputs and data fetching. | Code contains a few errors and warnings.  Application’s HTML and CSS mostly validates. No errors, but contains a few warnings.  Some error checking/handling of user inputs and data fetching missed. | Code contains mostly errors and warnings.  Application’s HTML and CSS partially validates. Some errors and warnings.  Minimal attempt made at error checking/handling. | Code contains frequent errors and warnings. Application-breaking errors.  Site does not validate/many errors and warnings.  No error checking/handling implemented. |
| **Best practices** | Code fully commented with detailed information (where appropriate).  Variable naming follows standard conventions and is consistent throughout.  Code correctly indented throughout.  All project files (views, public, etc) encapsulated in their own directory and included correctly.  Excellent git practices – frequent commits and detailed messages. Project includes a Node.js .gitignore file.  The repositories’ README provides a link to the application on Heroku and informs the user how to run the application locally. | Good commenting throughout.  Variable naming mostly follows standard conventions, mostly consistent throughout.  Most code indented correctly, but some exceptions.  Most project files (views, public, etc) encapsulated in their own directory and are mostly included correctly.  Good attempt at git practices – steady commit history and messages fairly detailed. Project includes a Node.js .gitignore file.  The repositories’ README provides a link to the application on Heroku, but doesn’t inform the user how to run the application locally. | Minimal commenting, or comments are poor.  Some attempt to follow standard conventions with variable naming/naming is mostly inconsistent.  Some code indented correctly, but most is not.  Some project files (views, public, etc) encapsulated in their own directory and some included correctly.  Some attempt made at good git practices – some commits and minimal messages. Does not include a Node.js .gitignore file.  The repositories’ README does not provide a link to the application on Heroku, but does inform the user how to run the application locally. | Code not commented at all.  Variable naming does not follow standard conventions, and is inconsistent throughout.  Code not correctly indented throughout.  No code (JS, CSS, etc) encapsulated in external files/files not included correctly.  No project files (views, public, etc) encapsulated in their own directory and some included correctly.  No or poor git practices. Few commits and poor messages. Does not include a Node.js .gitignore file.  The repositories’ README does not provide a link to the application on Heroku and information on how to run the application locally. |