NAME Mate Ujcic Project 1 – Rubric

ISTE340 Client Programming

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| **✔** | **Tasks** | **Points** | **Score** |
| **Web Design and Programming Principles** | |  |  |
| ☐ | Professional looking web application, following modern web design principles and practices, that provides a meaningful content to the user.  Used bootstrap to achieve a modern web design.  Used simple CSS animations to make some images “zoom out” to achieve a modern website effect | 10 |  |
| ☐ | Professionally structured & implemented website, following good programming principles and techniques (OO approach with the MVC architecture based on ES6 features)  The model contains an array which holds all the created objects (Coffee). There are three types of objects: Iced, Hot and Cold Brew. The View holds the references to HTML elements, functions and creates the selects. The controller is responsible for most of the website’s functionality. It has event listeners, functions for resetting options, updating and validating.  Object creation can be **found in** **Controller.js, line 177-210** | 10 |  |
| ☐ | The code is properly aligned and indented AND documented using comments in the expected format (JSDoc) that clearly explain the code functionality.  The code is commented using JSDoc format. More complicated functions have more comments, so they are easily understood. | 10 |  |
| **Conditional/Cascading Selects** | |  |  |
| ☐ | Each select must have at least 2 choices and there must be a depth of 3 different selects  There are 3 selects dynamically created when the view is initialized. Their options are created dynamically depending on the user’s input (event listeners listen for action and change the options accordingly). The first select contains the drink type, the second contains the coffee roast and the last one contains special coffee option.  **Found in: View.js, line 48-64** | 5 |  |
| ☐ | Selects are dynamically created depending upon the user’s previous select option.  Selects and their options are dynamically created (depending on the user’s previous choice). Two For loops are used to create the three selects and the first select’s options. The function setOptions is used for creating the options for the other two selects depending on the user’s input.  **Found in: View.js, line 16-30 and line 44-57** | 5 |  |
| ☐ | The user can start over and the selects are re-drawn from the point of the user’s new selection  When the Clear button is clicked, the event listener is triggered and the indices and the lengths of the selects are set to their appropriate values (either 0 or 1), and the image is set to the default image.  **Found in: Controller.js, line 51-57** | 5 |  |
| ☐ | The selection process includes a dynamically generated UI element that changes in response to the user's selection  When the user clicks an option, an image is loaded and shown. If the user chooses some other option, the image is changed. This process is done by calling the function setImage from the View.js. The function is called from the appropriate event listener (located in Controller.js). The function works by changing the image source according to the parameter.  **Found in View.js, line 62-65** | 10 |  |
| **Form Element** | |  |  |
| ☐ | Once the user is done with the selection, a form is used to send the user selected options as well as additional data that are application specific (e.g. email, age, ...).  Once the user selects his coffee options, a modal is opened where additional user data can be inputted. After all the data inputting is complete, a new modal is opened which confirms the order and displays the coffee option and user info that was entered.  **Found in Controller.js, line 60-69, line 81-105** | 10 |  |
| ☐ | The form inputs are validated, and an informative feedback with restyled form elements is provided in case of invalid data. At least 2 inputs with an expected format to validate are provided. Validation needs to be performed by JavaScript not by HTML5.  As the user fills the inputs, they are validated onchange. The form cannot be submitted unless all the inputs have a correct format.  **Found in Controller.js, line 81-168, line 323-338** | 10 |  |
| **Web Storage** | |  |  |
| ☐ | Once the user is done with the selection, the Web Storage is used to store the selected options.  As the user selects options, they are saved into the web storage and updated if the user changes their mind.  **Found in Controller.js, line 246-253** | 5 |  |
| ☐ | The data regarding the user choices are loaded from the Web Storage into the form. On form submit, all the data are stored in the Web Storage  When the user fills out all the inputs and submits the form, their info gets saved in the web storage.  **Found in Controller.js, line 93-95** | 5 |  |
| **Browser Support** | |  |  |
| ☐ | The application checks how well the user’s browser supports the application’s features and redirects the user to a different web page in case of no support. The check is performed in the beginning of the program, before allowing the user to interact with the web page.  If the user tries to load the website and they don’t have a supported browser, they will be taken to a page where and error message is displayed which says that they need to update their browser. This was done using Mondernizr.  **Found in modenizrCheck.js** | 5 |  |
| **SUBTOTAL:** | | **90** |  |
| EXTRAS: An excellent project (grade A) will have all of the requirements above PLUS something extra as listed below. The extra features (whether they are listed below or not) need to be discussed and approved by your instructor in order for you to proceed with the implementation. You cannot get more than 10 points for this rubric. | | | |
| ☐ | As an extra I chose a map API. I used leafletjs library and OpenStreetMap. I implemented the map after the form. The map has two markers: one shows the location of the coffee shop and the other marker marks the user’s location (when I uploaded the website on serenity, the location feature was blocked for security reasons.)  **Found in View.js, line 78-113** | 10 |  |
| EXTRAS TOTAL: | | 10 |  |
| TOTAL: | | 100 |  |
| **COMMENTS:** | | | |