Honors Contract Midterm Report

Linked-List with HTML5 and JavaScript

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**Summary**:

The project has been created using HTML5 and JavaScript, with an emphasis, currently, on just the main functionality of insertion, removal, and appending elements. A git repo was created to host the codebase for the project as well as document the process. The preparation that has been done is as follows:

Research

* HTML5 Basics
* HTML5 Custom Elements and the dynamic creation of elements in a document
* JavaScript list and array operations
* JavaScript and CSS animation
* LinkedList data structure fundamentals

For this midterm report, there has not been any animation implemented into the application. That will come when the application is finished. The next steps for preparation in order to finish the project include:

* Researching the best ways to animate HTML5 elements for operations such as searching and sorting
* Implement searching in JavaScript
* Implement sorting in JavaScript
* Ensure that insertion works for valid indices provided

**Plan & Timetable for completion:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** | **Week 15** |
| Submit midterm report and continue to work on insertion function | Implement searching and sorting | Start experimenting with animation and error handling | Finalize animations with CSS and JavaScript | Error handling, testing, and documenting project process and creation | Submit final project report |

**To Run the App:** Open the index.html file in a browser such as Chrome; Test append, insert, and remove.