EECS 448 – Project 3

Team 9 Engineering Artifact(s)

**Data Structure Visualizer**

**Informal Description:**

Provide a web interface for a user to visualize and interact

with the data structures covered in EECS268 – i.e Stack, Queue, Linked List, and Binary Search Tree.

**Language and Platform:**

JavaScript/CSS/HTML; Web Application

**UML Composite Structure Diagram:**

The Web UI serves as a visual interaction between the given data structures and the user. The “backend” of the system implements and handles each respective method requested by the user.

Properties

Properties

Properties

Properties

class

class

class

class

view

Insert

Remove

Search

Push

Pop

Peek

Enq.

Deq.

Peek

Insert

Remove

Traverse

BST

Linked List

Queue

Stack

DS Backend

Web UI

DS Visualizer System

**Project 3 Goals:** Implement Web UI and full functionality for Stack

**Project 4 Goals:** Finish full functionality for queue, linked list, and BST