**Table of Functions**

| **Function Name** | **Scope**  **(Local / Global)** | **Purpose** |
| --- | --- | --- |
| videoList | Global | Constructor for videoList class |
| Customers | Global | Constructor for Customers class |
| Rent | Global | Constructor for Rent class |
| addVideo | Global | Accept details of a new movie |
| rentVideo | Global | Rents a specific video chosen by a customer |
| returnVideo | Global | Return a video that has been rented (increment the number of copies for the movie) |
| vidDetails | Global | Show a details of a chosen movie |
| vidDisplay | Global | Displays the entire movies including the details in the program |
| vidAvail | Global | Confirms if the chosen movie is available |
| AddCustomer | Global | Accept details of a new customer |
| ShowDetails | Global | Show a details of a chosen customer (must pick what customer ID to input) |
| ListRented | Global | Show the details of the customers who rented a movie |
| saveCustomers | Global | Saves the customer text file upon pressing exit |
| saveMovie | Global | Saves the movielist text file upon entering exit |
| saveRent | Global | Saves the rent text file upon entering exit |
| readMFile | Global | Read the movielist.txt |
| vidLoad | Global | Displays the movies rented by the customer |
| menu() | Local | Displays the menu option |
| csMenu() | Local | Displays the menu option for customer |

**Table of Classes**

| **Class Name** | **Scope**  **(Public /Private)** | **Purpose** |
| --- | --- | --- |
| Customers | Public | Holds all of the functions and variables involving the Customers |
| Rent | Public | To hold all operations and variables related to renting movies |
| videoList |  |  |

**Table of Data Structures/ADT**

| **Identifier Name** | **Type of Data Structure/**  **ADT Operations** | **Purpose** |
| --- | --- | --- |
| moveNode | Linked List | Hold the information of each movie |
| cIDQueue | Queue | Queue of all customer IDs assigned to the customers read from the text file |
| cIDQueueNew | Queue | Queue of all customer IDs assigned to the customers added during runtime |
| cNameQueue | Queue | Queue of all of the names of customers read from the text file |
| cNameQueueNew | Queue | Queue of all of the names of customers added during runtime |
| cAddressQueue | Queue | Queue of all of the addresses of customers read from the text file |
| cAddressQueueNew | Queue | Queue of all of the addresses of customers added during runtime |
|  |  |  |

**Table of Algorithms**

| **Algorithm Name** | **In what part of the program was it applied** | **Purpose** |
| --- | --- | --- |
|  |  |  |
|  |  |  |

**Division of Labor**

| **Function Name** | **Author/Developer** | **Date Completed** |
| --- | --- | --- |
| videoList | **Bermudo, Emanuelle** | **March 26, 2021** |
| Customers | **Espero, Junelle** | **March 31,2021** |
| Rent | **Bermudo, Emanuelle** | **March 31** |
| addVideo | **Bautista, Ishmael** | **April 1** |
| rentVideo | **Espero Junelle** | **April 4, 2021** |
| returnVideo | **Bermudo, Emanuellel** | **April 2, 2021** |
| vidDetails | **Espero, Junelle** | **March 31, 2021** |
| vidDisplayMovies | **Espero Junelle** | **March 30,2021** |
| vidAvail | **Bautista,Ishmael** | **March 27,2021** |
| AddCustomer | **Bautista, Ishmael** | **April 3,2021** |
| ShowDetails | **Bautista, Ishmael** | **April 4,2021** |
| saveCustomers | **Espero, Junelle** | **April 3, 2021** |
|  |  |  |