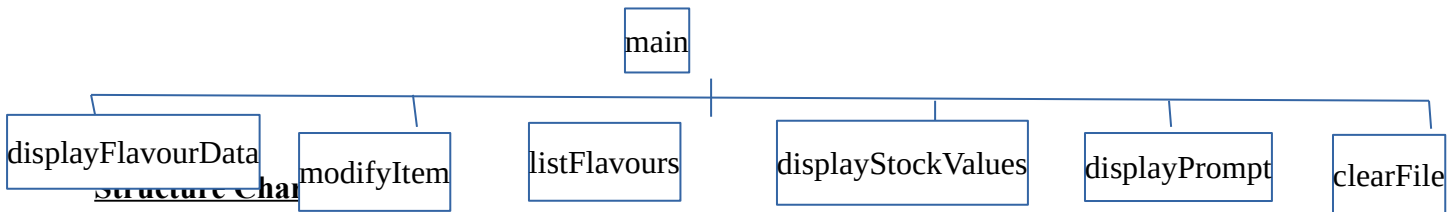


CSC 250 – Program Design Document



Function Design (give the prototype and a short description for each function)

```

void displayFlavourData(IceCream &); //prints the given ice cream data
void modifyItem(fstream &, bool); // modifies the next IceCream item in the file if bool
//if false, otherwise appends a new IceCream item
void listFlavours(fstream &, bool); // reads all of the IceCream items from the file and
//prints it either as a selection list or just a list the data on the screen
void displayStockValue(fstream &); // calculates the monetary value of all on hand
//IceCream and prints it to the screen
int displayPrompt(const string[], int, string &); // displays the contents of the array,
//of the given size, as a menu and prompts user for input stored in string
// returns value based on input type (0 => string, 1 => int, -1 => combo or failure)
void clearFile(fstream &, string); // clears the content of the give fileName; destroys
//the stock record
void searchFlavours(fstream &); // prompts the user for an item search
void showStreamState(fstream &); // shows the various error states of the file stream
  
```

Time Estimate

	Estimated Time	Actual Time
Program Design	<u>15</u>	<u>12</u>
(list each function name and the time required to code each)		
<u>displayFlavourData</u>	<u>5</u>	<u>6</u>
<u>modifyItem</u>	<u>15</u>	<u>24</u>
<u>listFlavours</u>	<u>10</u>	<u>11</u>
<u>displayStockValue</u>	<u>10</u>	<u>8</u>
<u>displayPrompt</u>	<u>3</u>	<u>2</u>
<u>clearFile</u>	<u>3</u>	<u>4</u>
<u>searchFlavours</u>	<u>10</u>	<u>23</u>
Program Test	<u>20</u>	<u>20</u>
Total Time	<u>91</u>	<u>110</u>