**CSC 250 – Program Design Document**

**Structure Chart**

int main( )

void PrintMenu( )

void EditQuantities( )

void AddRecord( )

void PrintAll( )

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

**int main( )**//the main function of the program  
//arranges the execution of other functions based on user input  
 **void PrintMenu( )**//displays the menu option to the user **void AddRecord( )**//open the file in append mode  
//prompts the user to input different infos abour the plant  
//to add the record **void PrintAll( )**//reads the data from the file  
//and prints them in the table **void EditQuantities( )**//allows user to edit the quantity available for each plant stored in plants.dat file

**Time Estimate**

|  |  |  |
| --- | --- | --- |
|  | **Estimated Time** | **Actual Time** |
| Program Design |  |  |
| (list each function name and the time required to code each) |  |  |
| **int main( )** | **30 minutes** |  |
| **void PrintMenu( )** | **40 minutes** |  |
| **void AddRecord( )** | **100 minutes** |  |
| **void PrintAll( )** | **40 minutes** |  |
| **void EditQuantities( )** | **120 minutes** |  |
| Program Test | **30 minutes** |  |
| **Total Time** | **360 minutes** |  |