CompSci 122 Group Project Documentation

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Aaron-Mailing Address Class, Email Class, Main Function Display Design, Documentation

Wali- Semester Class, Student.cpp, Phone Number Class, Student Class Implementation

Savan- Main Function Implementation, Main function display implementation, Student.h

1. Student

Class Name: Student

Attributes:

string:

-firstName,

-midName,

-lastName;

-student\_UserName;

int:

- stu\_ID;

Functions:

//constructors

+Student();

+ Student(string name, string student\_UserName, int ID);

//setters

+set\_name(string name1);

+ set\_studentUName(string userName1);

+ set\_stu\_ID(int ID1);

+string setfirstName(string firstName);

+string setmidName(string midName);

+string setlastName(string lastName);

//getters

+string get\_name();

+string get\_studentUName();

+int get\_stu\_ID();

+string getfirstName();

+string getlastName();

+string getmidName();

//display

+displayStudent();

Embedded Functions (Aggregation): MailingAddress, Email, Semester, Date, PhoneNumber;

1. Mailing Address

Class Name: MailingAddress

Attributes:

-double \_streetNumber;

- string \_streetName;

- string \_city;

- string \_state;

-double \_zip;

-string \_type;

Functions:

+MailingAddress();

+MailingAddress(double streetNumber, double streetName, string city,

string state, double zip, string type);

~MailingAddress();

+double getStreetNumber(); //accessor functions

+ string getStreetName();

+string getCity();

+ string getState();

+ double getZip();

string getType();

double changeStreetNumber();//mutator functions

string changeStreetName();

string changeCity();

string changeState();

double changeZip();

string changeType();

1. Date

Class Name: Date

Attributes:

Int - \_dd

Int -\_mm

Int -\_yyyy

Functions:

+Date();

+Date(int d, int m, int y);

+void setDate(int day, int month, int year);

+void setDate(int month, int year);

+void setDate(int month);

+void showDate();

1. Semester

Class Name: Semester

Attributes:

String:

-\_semester

- \_major

- \_year

- \_status;

Functions:

+Semester();// constructor

+Semester(string semester, string major, string year, string status);

~Semester();// destructor

//accessor functions

+string getSemester();

+string getMajor();

+string getYear();

+string getStatus();

//mutator functions

+string changeSemester();

+string changeMajor();

+string changeYear();

+string changeStatus();

1. Email

Class Name: Email

Attributes:

String:

-\_email

-\_type;

Functions:

+ Email();

+ ~Email();

+ Email(string email, string type);

+string getEmail();

+ string getType();

+ string setEmail(string \_email);

+string setType(string type);

1. Phone Number

Class Name: PhoneNumber

Attributes:

String :

-\_phoneNumber

- \_phoneType

Functions:

+string changePhoneNumber();

+string changePhoneType();