**Semester Technical Project Proposal**

Description: The goal of our project is to serve as an online ordering system for a restaurant. Users will be able to create accounts, view accounts, place and view orders, etc.

Functions

//This function will allow users to create an account.

void createAccount() {

string username, email, password;

cout << "Enter your username: " << endl;

cin >> username;

cout << "Enter your email address: " << endl;

cin >> email;

bool ans = is\_valid(email);

while (ans == false) {

cout << "That email is invalid. Please enter a valid email address." << endl;

cin >> email;

ans = is\_valid(email);

}

cout << "Create a password: " << endl;

cin >> password;

cout << "Account has been created.";

}

//these three functions are checking to make sure the entered email address is a valid format

bool isChar(char c)

{

return ((c >= 'a' && c <= 'z')

|| (c >= 'A' && c <= 'Z'));

}

bool isDigit(const char c)

{

return (c >= '0' && c <= '9');

}

bool is\_valid(string email)

{

if (!isChar(email[0])) {

return 0;

}

int At = -1, Dot = -1;

for (int i = 0;

i < email.length(); i++) {

if (email[i] == '@') {

At = i;

}

else if (email[i] == '.') {

Dot = i;

}

}

if (At == -1 || Dot == -1)

return 0;

if (At > Dot)

return 0;

return !(Dot >= (email.length() - 1));

}

//Tests the functions above

int main() {

createAccount();

return 0;

}