**Semester Technical Project Proposal**

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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;

}