

# Master of Applied Computer Science

**CSCI 5709** 

**Advanced Web Services** 

**Assignment 1 (Individual)** 

B00924759

# A1.5. User Experience and Task Flow

# **User Profile Management**

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#### **Tasks**

- a. User Registration
- b. Existing User Login.
- c. View User Profile
- d. Update User Profile

# a. User registration

#### Scenario

A student needs food at midnight but is too tired to cook a meal. The student does not want to order food from a restaurant due to a tight budget. The student wants to create an account with a website that lists restaurants in the vicinity offering leftovers from the day at no cost.

Persona – Student.

Feature – Create an account.

Need – Find restaurants offering food for free.

Context – Could not afford to order food from a restaurant.

#### **Use Case**

- 1.User opens the browser and types <u>www.lastserve.ca</u>
- 2. System displays the home page.
- 3. User clicks on 'Register as a user' button on the home page.
- 4. System displays the registration page, requesting first name, last name, email address and password.
- 5.User enters the details.

- 6.User clicks the 'register' button.
  - 6.1. System displays 'First Name cannot be blank' error message.
    - 6.1.1. User enters the first name.
    - 6.1.2. User clicks the 'register' button.
  - 6.2. System displays 'Email already exists' error message.
    - 6.2.1. User enters a new email address.
    - 6.2.2. User clicks the 'register' button.
  - 6.3. System displays 'Password must be minimum 8 characters long' message.
    - 6.3.1. User enters a password with 8 or more characters.
    - 6.3.2. User clicks the 'register' button.
  - 6.4. System clears password and confirm password field and displays 'Password and confirm password fields do not match' error message.
    - 6.4.1. User enters matching passwords.
    - 6.4.2. User clicks the 'register' button.
- 7. System registers the user.
- 8. System redirects the user to the login page.

# **Task Flow Diagram**

Task flow diagram created as seen in Figure 1 is drawn using draw.io tool [1]

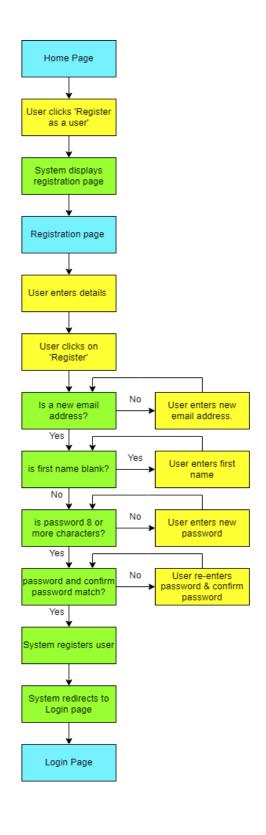




Figure 1: Task Flow diagram to create an account developed by Viraj Joshi.

# b. Existing User Login

#### Scenario

A student is hungry and wants to check restaurants in the vicinity offering free leftover food on the LastServe website.

Persona – Student

Feature – Login account

Need – Find nearby restaurants offering free food

Context – Hungry student looking for free food

#### Use case

- 1.User opens the browser and types <a href="www.lastserve.ca">www.lastserve.ca</a>
- 2. System displays the home page.
- 3. User clicks the 'User Login' button.
- 4. System displays the login page, requesting email and password.
- 5. User enters the email address and password.
- 6.Users clicks the 'Login' button.
  - 6.1. System displays an 'Invalid email and/or password' error message.
    - 6.1.1. System requests email and password.
    - 6.1.2. User enters details.
    - 6.1.3. User clicks 'Login' button.
  - 6.2. System displays 'Invalid email and/or password' error message.
  - 6.3. System displays 'Reset password' message.
  - 6.5. User clicks on 'Reset password' link.
  - 6.6. System displays reset password page, requesting the user to enter the registered email address.
    - 6.6.1. User enters email id.
    - 6.6.2. User clicks on 'Submit' button.
  - 6.7. System sends an authentication code to the entered email address.

- 6.7.1. System displays a field to enter code.
- 6.7.2. User enters the authentication code.
- 6.7.3. User clicks on 'Submit' button.
- 6.8. System displays the reset password page, requesting a new password and confirm password.
  - 6.8.1. User enters a new password and confirm password.
  - 6.8.2. User clicks on 'Reset Password' button.
- 6.9. System displays "New password must be minimum 8 characters" message.
  - 6.9.1. User enters a new password.
  - 6.9.2. User clicks on 'Reset Password' button.
- 6.10. System displays 'New Password' and confirm password does not match"
  - 6.10.1. User enters a new password and confirm password.
  - 6.10.2. User clicks on 'Reset Password' button.
- 7. System resets the password and displays 'Password reset successful' message.
- 8. System redirects user to login page.
- 9. System authenticates the user.
- 10. System redirects the user to the home page.

# **Task Flow Diagram**

Task flow diagram created as seen in **Figure 2** is drawn using draw.io tool [1]

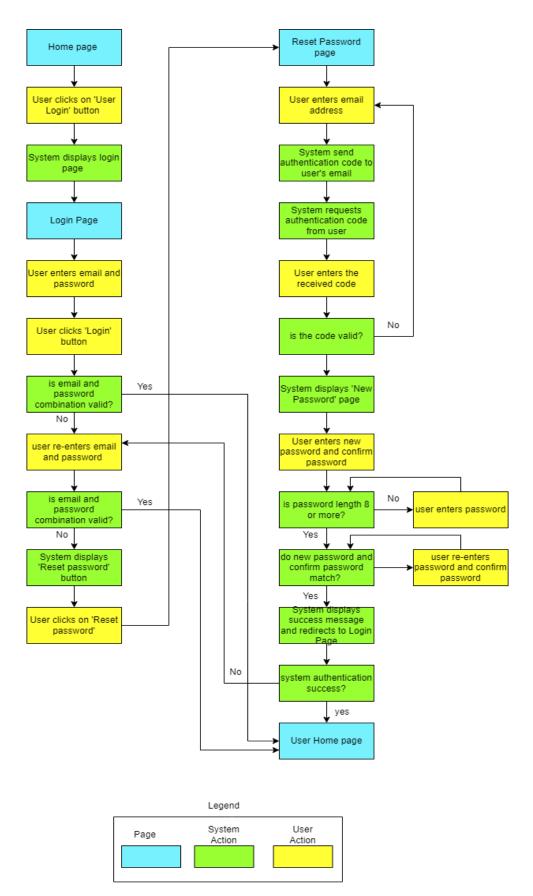


Figure 2: Task Flow Diagram for user login developed by Viraj Joshi

#### c. View User Profile

#### Scenario

The student has subscribed to get an email alert when a subscribed creates a post. The student wants to see a list of subscribed restaurants.

Persona – Student

Feature – View user profile

Need – See all the restaurants for which an email alert has been set.

Context – The user is logged in and wants to view details.

#### Use case

Assumption – User is logged in.

- 1. System displays the home page.
- 2. Student clicks on the 'View Profile' icon on the home page.
- 3. System displays the view profile details page.
- 4. User scrolls to the 'Subscriptions' section on the view details page.
- 5. System displays a list of subscribed restaurants.
- 6.User clicks on the 'Back' button.
- 7. System redirects user to the home page.

# **Task Flow Diagram**

Task flow diagram created as seen in Figure 3 is drawn using draw.io tool [1]

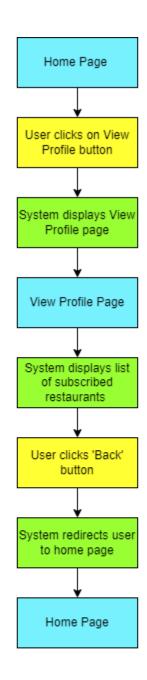




Figure 3: Task Flow Diagram for View Profile developed by Viraj Joshi

#### d. Edit User Profile

#### Scenario

While creating an account, the student mis-spelled his name. Also, the student did not enter the last name as it was an optional field. The last time he went to a restaurant, he was not allowed to pick up food as the booking details had a different first name than his ID. The student wants to change his first name and add last name to avoid any misunderstandings in the future.

Persona – Student.

Feature – Edit user profile.

Need – Update personal details.

Context – Not allowed to pick up food as names did not match.

#### Use case

Assumption – User is logged in.

- 1. System displays the home page.
- 2.User clicks on the 'Edit Profile' button on the home page.
- 3. System displays the edit profile page with first name and last name.
  - 3.1.1. User clicks on the 'Back' button.
  - 3.1.2. System redirects user to the home page.
- 4. User enters first name and last name.
  - 4.1. User clicks 'back' button.
  - 4.2. System displays 'No data updated' message.
- 5.User clicks on 'Update' button.
  - 5.1. System displays 'First Name cannot be blank' error message.
    - 5.1.1. User enters first name.
    - 5.1.2. System displays 'First Name updated' message.
- 6.System updates details.
- 7. System redirects user to the home page.

# **Task Flow Diagram**

Task flow diagram created as seen in Figure 4 is drawn using draw.io tool [1]

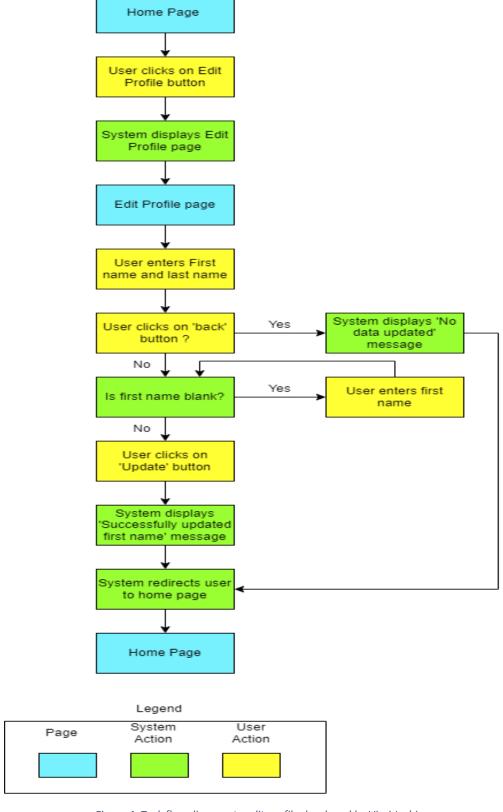


Figure 4: Task flow diagram to edit profile developed by Viraj Joshi

# **A1.6.** Lo-Fidelity Prototype

Low-fidelity prototype of user task to 'Create an account' listed in A1.5 are as shown in **Figure 5** and **Figure 6**. Wireframes are made using online wireframing tool Mockflow [2].

# Wireframes for User Registration task

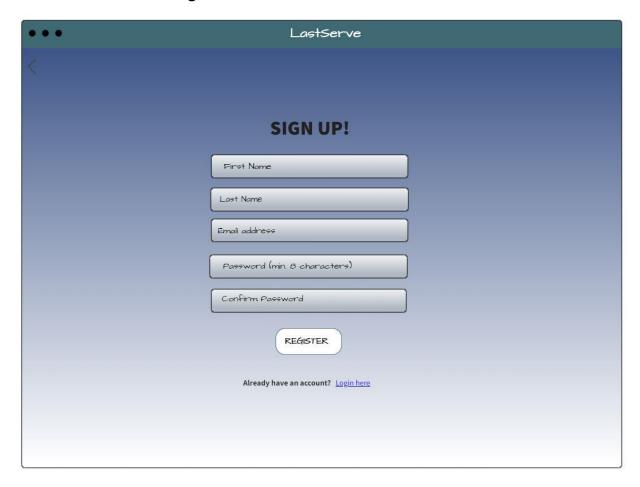


Figure 5: Wireframe of sign-up page developed by Viraj Joshi.

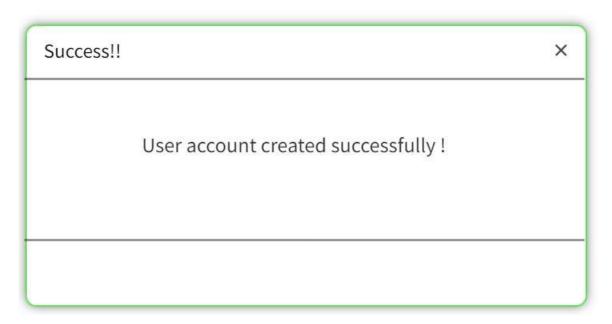


Figure 6: Wireframe for successful account creation developed by Viraj Joshi

# **A1.7. Semi-Functional Prototype**

# **Semi Functional Prototype**

Semi functional prototype of the sign-up page and corresponding modal is deployed on Netlify [3] at URL <a href="https://main--merry-sorbet-809a05.netlify.app/">https://main--merry-sorbet-809a05.netlify.app/</a>. Various validation messages displayed by the system and success modal can be seen from **Figure 7 – 17** 

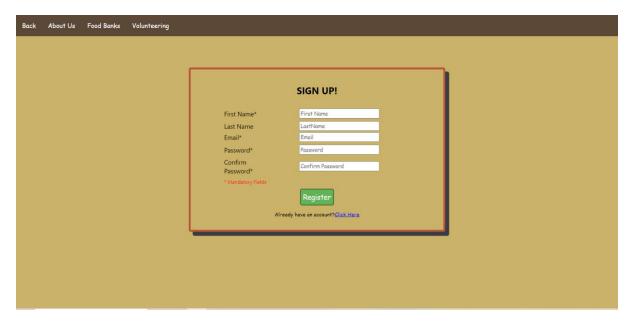


Figure 7: Sign Up page prototype developed by Viraj Joshi

#### **Validations**

1.If a user does not enter first name, system displays a 'Enter first name' error message. The system disables the register button unless the error is resolved.

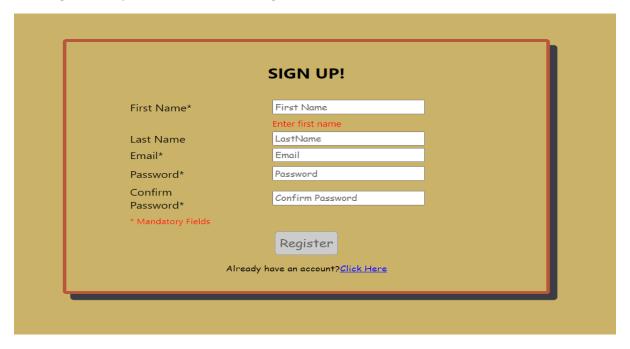


Figure 8: First Name error and disabled register button developed by Viraj Joshi

2. If a user does not enter an email address, the system displays a 'Enter an email' error message. System disables the register button.

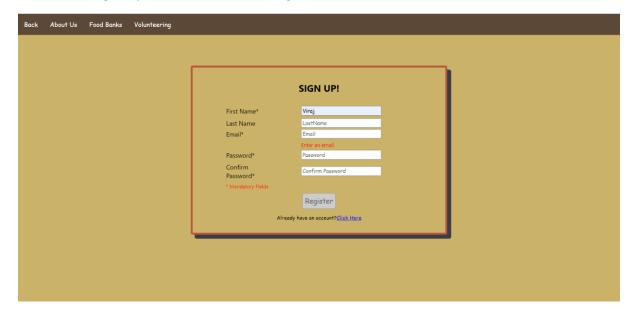


Figure 9: Blank email address validation developed by Viraj Joshi

3.If a user enters an existing email address, system gives an 'Email already exists' error message and disables the register button. For the semi-functional prototype, a hard-coded value 'abc@gmail.com' is used to generate this error.

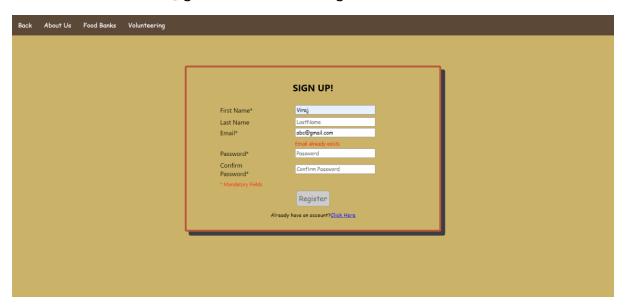


Figure 10: Email already exists validation developed by Viraj Joshi

4. If a user enters an invalid email address, the system gives an 'Enter a valid email' error message and disables the register button.

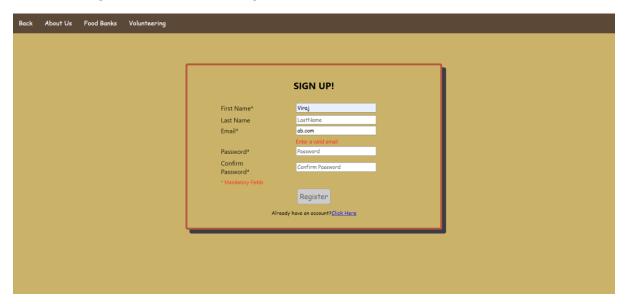


Figure 11: Invalid email validation developed by Viraj Joshi

5. If a user does not enter a password, the system gives a 'Enter a password' error message and disables the register button.

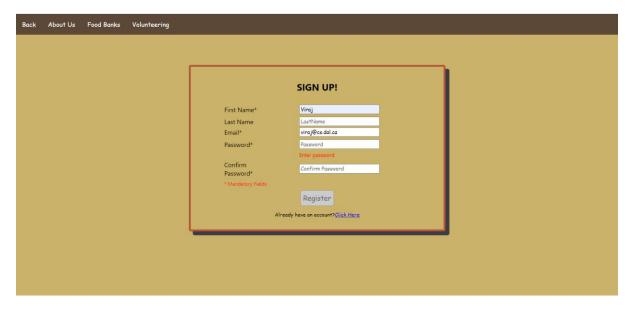


Figure 12: Blank password validation developed by Viraj Joshi

6. If a user enters a password of length less than 8 characters, the system gives a "Password must be min. 8 characters "error message and disables the register button.



Figure 13: Password length validation developed by Viraj Joshi

7. If a user does not enter the confirm password, system gives 'Enters a confirm password' error message and disables the register button.

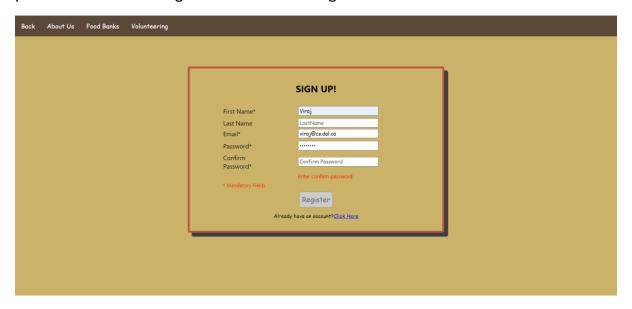


Figure 14: Blank confirm password validation developed by Viraj Joshi

8. If the password and confirm passwords, do not match system gives a 'Password and confirm password do not match' error message and clears the password and confirm password fields for security purpose.

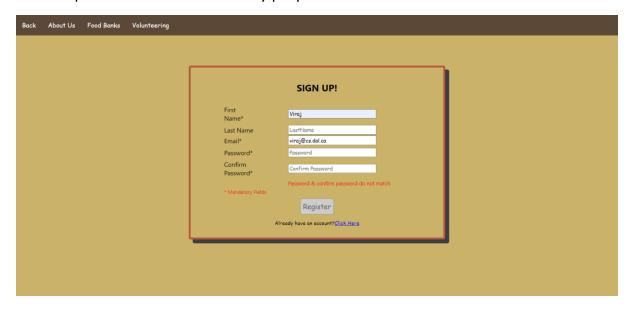


Figure 15: Password and Confirm password do not match validation developed by Viraj Joshi

- 9. When the register button is disabled, along with the change in colour to give a disabled button look, the system changes the cursor to a 'Not allowed' pointer. Once the registration button is enabled, the cursor on the register button turns into to a pointer.
- 10.Once, all the mandatory fields are added, user can click on the register button and the system displays a success message. Once the success message is displayed, the system clears all the entered fields as a security measure. The background is darkened when the modal opens to focus on the modal contents.

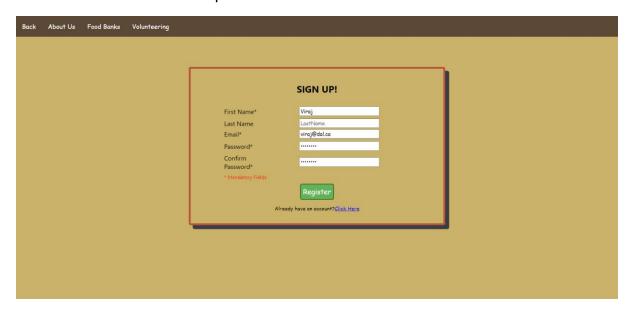


Figure 16: Enabled register button when no errors

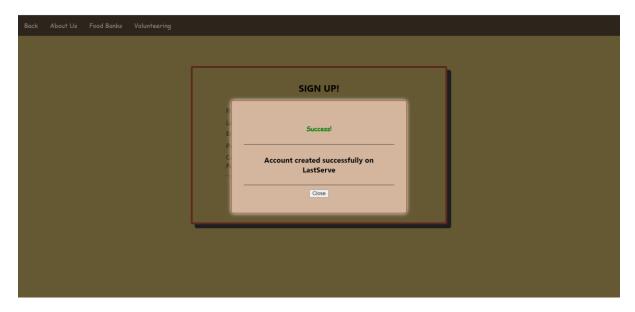


Figure 17: Success message modal

On clicking close, user would be re-directed to the login page to login using the created credentials.

# References

- [1] "Draw.io free flowchart maker and diagrams online," *Flowchart Maker & Online Diagram Software*. [Online]. Available: https://app.diagrams.net/. [Accessed: 06-Feb-2023].
- [2] "Wireframe tools, prototyping tools, UI mockups, UX suite, remote designing," *MockFlow*. [Online]. Available: https://wireframepro.mockflow.com/. [Accessed: 06-Feb-2023].
- [3] "Develop and deploy websites and apps in record time," *Netlify*. [Online]. Available: https://www.netlify.com/. [Accessed: 06-Feb-2023].