

This project must be done in ASP.NET with MVC 5.0.

- While creating the controller, implement Custom Controller Factory for maintaining SessionStateBehavior.
- Implement – Dependency Injection for classes.

Create 2 types of roles

1. Admin:- Should be able to use create and search options(Note by default have one admin user and password initially.)
2. Applicant: - Should be able to use only create option.

(DB table must contain Username,Emailid>Password,Usertype, depending on which user has logged in, should open the application)

First time the applicant should register with Username,Emailid>Password and confirmPassword.

Create a New Account

Use the form below to create a new account.

Passwords are required to be a minimum of 6 characters in length.

Account Information

Username:

scottgu

Email:

scottgu@microsoft.com

Password:

••••••

Confirm password:

••••••

Register

Once it is registered, should be able to login

Log On

Please enter your username and password. [Register](#) if you don't have an account.

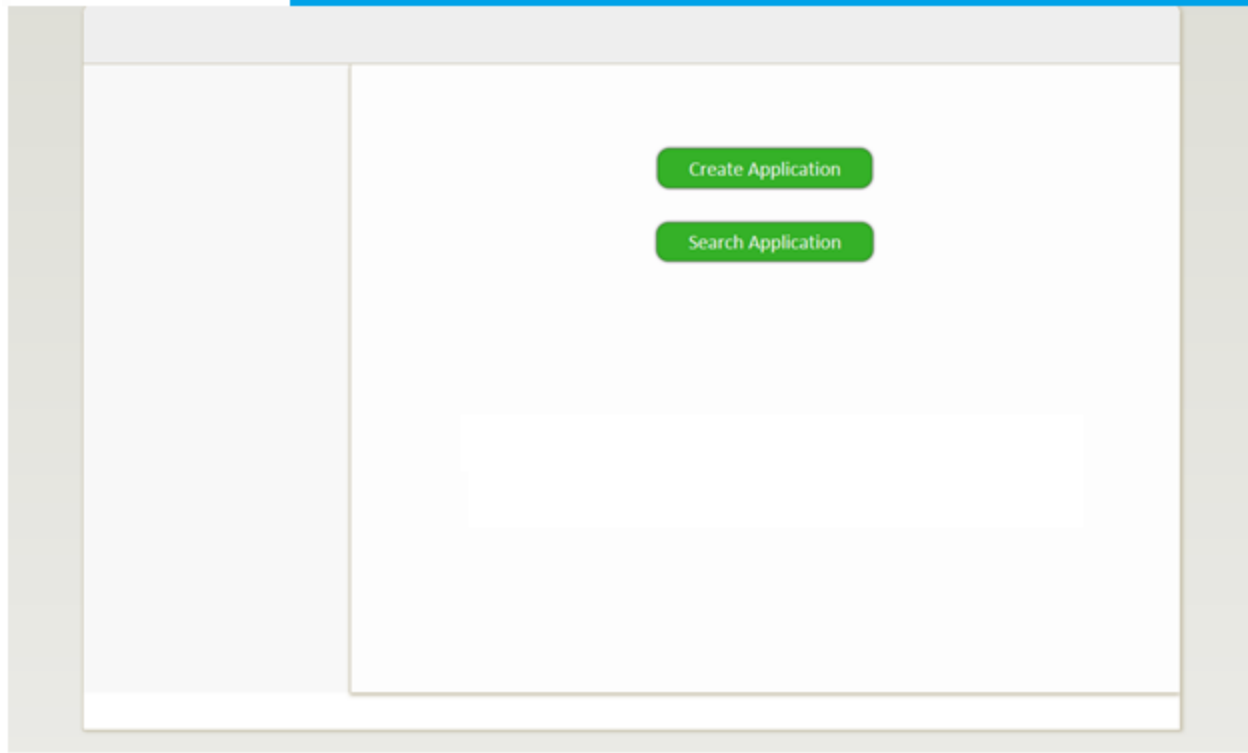
Account Information

Username:

Password:

☐ Remember me?

Screen 1: Home Page (Admin)



1. The home page of the application would look like above
2. When User clicks on Create application button he will be redirected to Create Application Page
3. When User Clicks on Search Application Button he will be redirected to Search Application Page

Screen 1: Home Page (Applicant)

Company Logo

Create Application

Screen 2: Household Info

Company Logo

The screenshot shows a web form titled "Create Application" with a red asterisk indicating required fields. Below the title, it says "Household Member 1 of 1". The form contains the following fields and controls:

- First Name:** Text input field containing "SAMPLE".
- M.I.:** Text input field.
- Last Name:** Text input field containing "A".
- Suffix:** Dropdown menu with "--Select--" and a downward arrow.
- Date of Birth (mm/dd/yyyy):** Text input field containing "04/04/1990".
- Gender:** Radio buttons for "Male" and "Female".
- Buttons:** "Add Member" (green), "Save and Exit" (green), "Back" (green), and "Next" (green).

Do not save the data into database when “add Member” is clicked. Must use the session variables to store those details

This screen allows the user to capture the Family member details and is expected to enter the head of the family as the 1st member.

Key features of the screen:

- The user should be able to add 1 member at a time and can proceed to other member only after mandatory fields of the earlier member have been completed
- The user should be able remove an already added member
- User should not be able to Save & Exit after entering partial data
 - User should be able to Save & Exit after he completes entering at-least 1 member and all mandatory checks for this member
 - User should NOT be able to Save & Exit if he does not enter all mandatory fields for any member on the screen
- If the user comes back to this screen it should be prepopulated with previously saved data

- e. Application number should be generated only after user has clicked “Save & Exit” or and when there are no validation errors.
- f. Each time user has to enter a new member, the user must click on “Add Member”
- g. Once the user enters all member the user must click on “Next” to go to Relationship screen.
- h. When the user enter few family member details, and click on “Save & Exit” an Application number must be generated, and later if the user search the application number it must populated the family member details and should allow us to continue entering remaining family member details.

Add Member: - When user clicks add member he would be able to add another member and additional grid containing the First Name ,Last Name.MI,Suffix, DOB and Gender is populated below.

Validation Rules

- a. Name text boxes should allow “alphabets”, special character’s “*, -, “”
- b. Length of name cannot be more than 32
- c. Age should be numeric and cannot be more than 125 years
- d. Age of every member should be less than the Age specified for 1st member
- e. Family cannot have more than 5 members
- f. First Name ,Last Name, DOB,Gender are mandatory fields.

Navigation Rules

- a. User once he clicks “Save & Exit” should be taken to Home screen
- b. User once he clicks “Back” should be taken to Home Screen
- c. User once he clicks “Next” should result in saving of all data and user should be taken to Relationship screen

Screen 3: Relationship Info screen

Company Logo

The screenshot displays a web form titled "Household Relationships" with a red asterisk indicating a required field. Below the title, a instruction reads: "Please tell us how the members of your household are related to each other." Three profile icons are shown in a row, labeled "SAMPLE", "MEMBERONE", and "MEMBERTWO". Below these, the section "SAMPLE's Relationships" contains two dropdown menus. The first dropdown is labeled "* Relationship to MEMBERONE A" and the second is labeled "* Relationship to MEMBERTWO A". Both dropdowns currently show "--Select--". At the bottom of the form, there are three green buttons: "Save and Exit", "Back", and "Submit".

Household Relationships *Required field

Please tell us how the members of your household are related to each other.

SAMPLE **MEMBERONE** **MEMBERTWO**

SAMPLE's Relationships

* Relationship to MEMBERONE A --Select--

* Relationship to MEMBERTWO A --Select--

Save and Exit **Back** **Submit**

This screen allows the user to capture the relationships between the entered Family members and is used to specific relationship of each member with the other member.

Key features of the screen:

- a. The user should be able to specify relationship of 1 member at a time add 1 member at a time and can proceed to other member only after mandatory fields of the earlier member have been completed
- b. User should be able to Save & Exit from the screen
- c. If user comes back to the screen it should be pre-populated with previously saved data

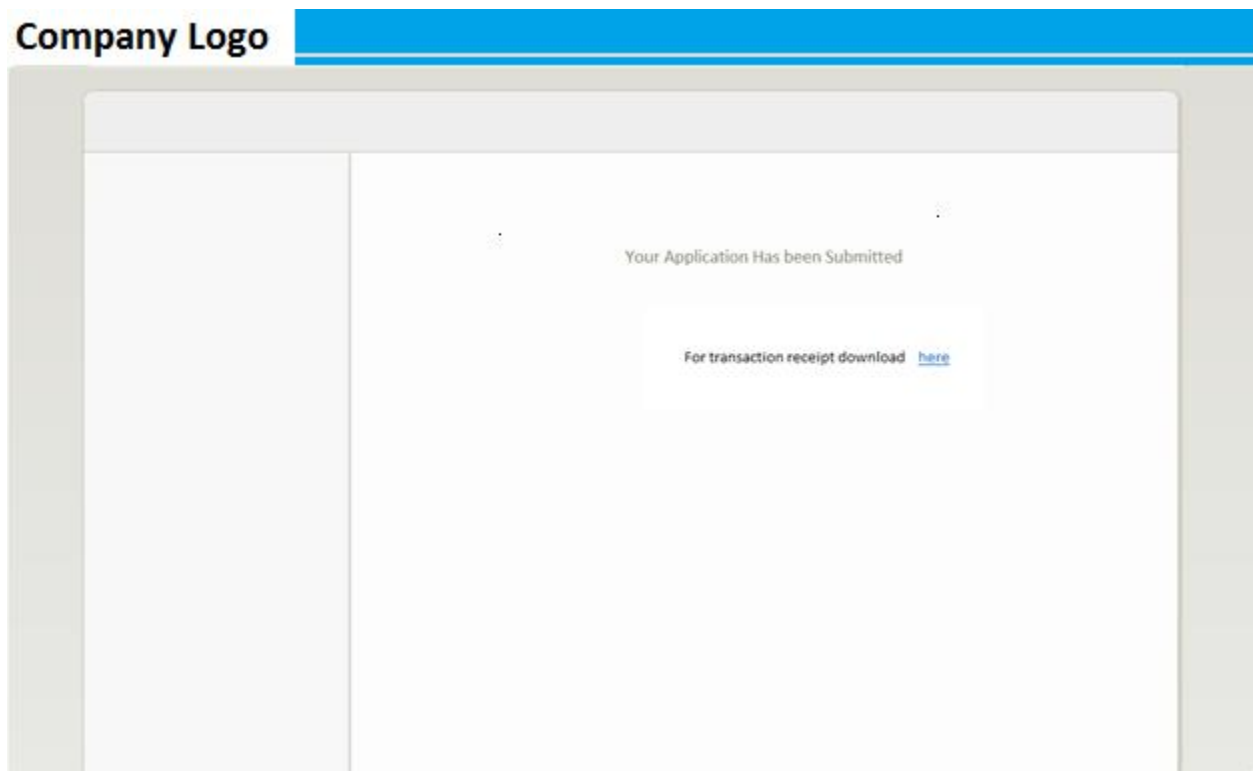
Validation Rules:

- a. Relation values are limited to “Father”, “Mother”, “Son”, “Daughter”
- b. User should be able to specify relationships in the order in which the Family members are added
- c. User should not be able to click a different tab without completing the mandatory fields on the current tab
- d. User should not be able to edit relationship if it is derived based on the value specified on other screen

Navigation Rules:

- a. User once he clicks “Save & Exit” should be taken to Search application screen
- b. User once he clicks “Back” should be taken to Household Info screen
- c. User once he clicks “Submit” should result in data being saved and should be taken to Confirmation screen

Screen 3: Confirmation Screen



After submitting the application, the user should be able to download the receipt with

ApplicationId and Family details with relations.

Use MessageContract with all the details of the family. Send the details client.

Client should be able to download the file in the form of PDF.

Note:- When the user clicks on Save and Exit. It must call a WCF service method and the save the Family members details into the database, and return the Application number. The application should not be connected to database. It should be done only through WCF service only.

The Application must be developed using MVC Framework. For the saving, retrieving and any other database operations must be done using Entity Framework.

Where ever required use the session variables/cookies

Screen 4: Search Application

Company Logo

User Search

Use any combination of fields below to search through all customers

First Name

Last Name

DOB

Application ID

Application Status

Approved

Search

This screen allows the user to search for already submitted application to view/make changes to it.

Key features of the screen:

- a. The user should be able to search by “First Name”, “Last Name”, “DOB”, “Application ID”, “Application Status” [should act as an And search]
- b. Search Functionality
 - i. At-least 1 search condition is mandatory
 - ii. The user should be able see all application in the system in the form of table in bottom portion
 - iii. The user should be able to sort by any column [Non CS guys should be ajax based client side sorting]
 - iv. The user should be able to see 5 records per page
 - v. The search result should support pagination [Non CS guys should be client side pagination]
 - vi. The search result should allow user to View/Edit the application in the result set
 - vii. The search should not return more than 100 records and if more than 100 records are present
 - viii. It should display message that says please refine your search criteria, more than 100 results are found
- c.

2. Navigation Rule

User once he clicks “View/Edit” should be taken to Household Screen for the selected Application Id

Note:- When the user clicks on Search button after making appropriate selection. It must call a WCF service method and return all the Family members details from the database. The application should not be connected to database. It should be done only through WCF service only.