MS.NET
Mini Project
Job Portal System
(JPS)

Document Revision History

Date	Revision No.	Author	Summary of Changes
03-02-2020	1.0	Raghu	Modification for partial immersive

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INTRODUCTION

This document outlines a mini project for the .NET Line of Technology (LOT). The project is to develop Job Portal System. This document contains the requirements, work flow of the system and gives guidelines on how to build the functionality gradually in each of the course modules of the .NET LOT.

SETUP CHECKLIST

Minimum System Requirements

- Intel Pentium 4 and above Windows 2007, 2008 and 2010
- Memory 4 GB
- Internet Explorer 8.0 or higher
- SQL Server 2012 client and access to SQL Server 2012 server
- Visual Studio 2017

INSTRUCTIONS

- The code modules in the mini project should follow all the coding standards.
- Create a directory by your name in drive **<drive>**. In this directory, create a subdirectory **Sprint1**. Store your Project here.
- You can refer to your course material.
- You may also look up the help provided in the MSDN
- Since this project work will span over couple of months, you will need to take care of maintaining the code

PROBLEM STATEMENT

OBJECTIVE

Development of Job Portal System (JPS)

Abstract of the project

Job Portal System (JPS) provides job seeking facilities to job seekers across the globe. It is an online system through which job seekers can post their details and search for jobs.

The Online Job Portal System should support the following users.

1. Administrator (A)
2. User(Job Seeker) (U)

- **Phase 1 :** The system will first develop using C# only – where job seekers data will be store as a Collection Classes. For user interaction, system will use Console Application

Macro level Operations/offerings:

1. Add Job Details
2. Edit Job Details
3. Delete Job Details
4. Search and View Details
5. Mange the Users

MODULE LIST and MODULE DETAILS

1. Administrator

Add Job Details

- As part of this operation, the admin should have the ability to add job details into the system and get confirmation on successful entry and JobID is auto-generated.

Edit Job Details

- As part of this operation, the admin should have the ability to edit Job details in the system by picking JobID from the list, and get confirmation on successful entry.

Delete Job Details

- As part of this operation, the admin should have the ability to delete Job details in the system by picking JobID from the list whenever particular job request from employer is closed.

Search and View details

- Search criteria are:
    - Name starts with
    - Year of experience

2. User (Job Seeker)

- User(Job Seeker) :User Registration An unregistered user should be able to register into the system with the following details.
    - Registration details include (all mandatory):
    - FirstName
    - LastName
    - Age
    - Gender
    - Password
    - Address
    - PhoneNo

  When the registration is complete, a UserID (numeric) will be auto-generated and displayed to the user

- **User Login**
    - The User should be able to do the following operations once he has logged in with his unique UserID and password.

- **Search/View jobs**

Constrains

- Proper validation is required
- System must show appropriate massage on all activity (whether activity is successful or failure)
- User must have proper menu to select the activity (create, modify, search, view, remove) that user want to perform.

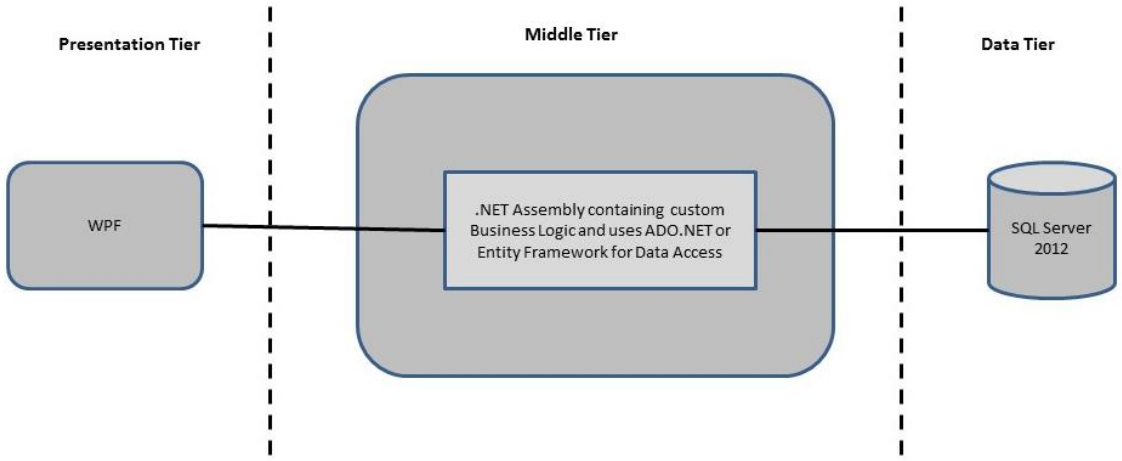
FUNCTIONAL COMPONENTS OF THE PROJECT

Application Architecture:

Distributed web applications traditionally to be designed and built across three logical tiers:

- Database Access Layer (DAL)
- Business Logic Layer (BLL)
- Presentation Layer

The DAL refers to the database itself, the stored procedures, and the component that provides an interface to the database. The BLL refers to the component that encapsulates all the business logic of the application. And, the Presentation layer refers to the web application pages.



Design guidelines

- All the exceptions/errors to be captured and user friendly message to be displayed on the CommonError page.
- Data access layer of 3-tier use Entity Framework data access using SQL stored procedures - All the database interaction would be performed using Data Access Component.

TECHNOLOGY USED:

- *Presentation Layer*
    1. *Console Application*
- *Business Layer*
    1. *Business Logic Components and Services :-*
        a. C# 7.0
- *Database Layer*
    1. *Databases:-*
        a. Storing the data in generic collection and serializing.

IMPLEMENTATION

SUMMARY OF THE FUNCTIONALITY TO BE BUILT:

The participants need to develop the Loan Management System by building the functionality incrementally in each of the course modules of .NET LOT.

Sr. No	Course	Duration (in PDs)	Functionality to be built
1	NET Framework 4.6 + C# 7.0 + Introduction to WPF	8.5	Developing Presentation components(Console application), Business components (C# classes) and Data access components (Collections)

GUIDELINES ON THE FUNCTIONALITY TO BE BUILT:

The functionality and components to be built in each of the course modules of .NET LOT is as follows:

1. Course: C# 7.0

This section describes some of the basic steps involved in designing and creation of the collection for the application.

a. Create the collections of the following type: [make your assumptions in case you require few more fields]

Class: **User Information**		
Field Name	**Information Type**	**Description**
UserID	Number	It will be a numeric value sequentially generated by the system and need not be passed from the client. It will be added by the system whenever a new user gets registered.
Password	Text	
First Name	Text	First Name of the user
Last Name	Text	Last Name of the user
Age	Number	Age of the user
Gender	Text	Gender of the user
Address	Text	Address of the user
PhoneNo	Number	Phone No of the user
UserType	Text	A-Administrator

Class: **LoginCredentials**		
Field Name	**Information Type**	**Description**
UserType	Text	A-Administrator
UserID	Text	User Identification
Password	Text	Password

Class: **JobDetails**		
Field Name	**Information Type**	**Description**
JobID	Number	It will be a numeric value sequentially generated by the system and need not be passed from the client. It will be added by the system whenever a new user gets registered.
Employer	Text	
Address	Text	
ContactNumber	Number	
ContactEmailID	Text	
SkillsRequired	Text	
Qualification	Text	
Location	Text	
Salary	Number	
NoOfVacancies	Number	

