Faculty of Computer and Informatics Engineering

Online Job Portal

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ABSTRACT

The aim of this project is to develops an online search Portal for the Placement Dept. of the college. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an Online Job Portal for the Placement Dept of the college to manage the student information with regards to placement. Students logging should be able to upload their information in the form of a CV. Visitors/Company representatives logging in may also access/search any information put up by Students.

The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of MS-SQL Server and all the user interfaces have been designed using the ASP.Net technologies. The database connectivity is planned using the "SQL Connection" methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

CONTENTS

1. INTRODUCTION

1.1. INTRODUCTION TO PROJECT
1.2. PURPOSE OF THE PROJECT

2. SYSTEM ANALYSIS

2.1. SYSTEM WORKFLOW
2.2. STUDY OF THE SYSTEM

3. SYSTEM DESIGN

3.1. INTRODUCTION
3.2. DATA FLOW DIAGRAMS
3.3. DATA DICTIONARY

4. OUTPUT SCREENS

5. CONCLUSION

6. FUTURE IMPROVEMENT

7. References

Chapter 1

INTRODUCTION

1.1. INTRODUCTION TO PROJECT

This project is aimed at developing an online search Portal for the Placement Details for job seekers. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an Online Job Portal for job seekers. Job Seekers logging should be able to upload their information in the form of a CV. Visitors/Company representatives logging in may also access/search any information put up by Job aspirants.

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1.2. PURPOSE OF THE PROJECT

This system can be used as an Online Job Portal for the Placements providing to the un employees who are seeking for a job placement. Job Seeker logging into the system and he can should be able to upload their information in the form of a CV. Visitors/Company representatives logging in may also access/search any information put up by Job Seeker.

Chapter 2

SYSTEM ANALYSIS

2.1. ANALYSIS MODEL

The model that is basically being followed is the WATER FALL MODEL, which states that the phases are organized in a linear order. First of all the feasibility study is done. Once that part is over the requirement analysis and project planning begins. If system exists one and modification and addition of new module is needed, analysis of present system can be used as basic model.

The design starts after the requirement analysis is complete and the coding begins after the design is complete. Once the programming is completed, the testing is done. In this model the sequence of activities performed in a software development project are: -

- Requirement Analysis
- Project Planning
- System design
- Detail design
- Coding
- Unit testing
- System integration & testing

Here the linear ordering of these activities is critical. End of the phase and the output of one phase is the input of other phase. The output of each phase is to be consistent with the overall requirement of the system. Some of the qualities of

spiral model are also incorporated like after the people concerned with the project review completion of each of the phase the work done.

WATER FALL MODEL was being chosen because all requirements were known beforehand and the objective of our software development is the computerization/automation of an already existing manual working system.

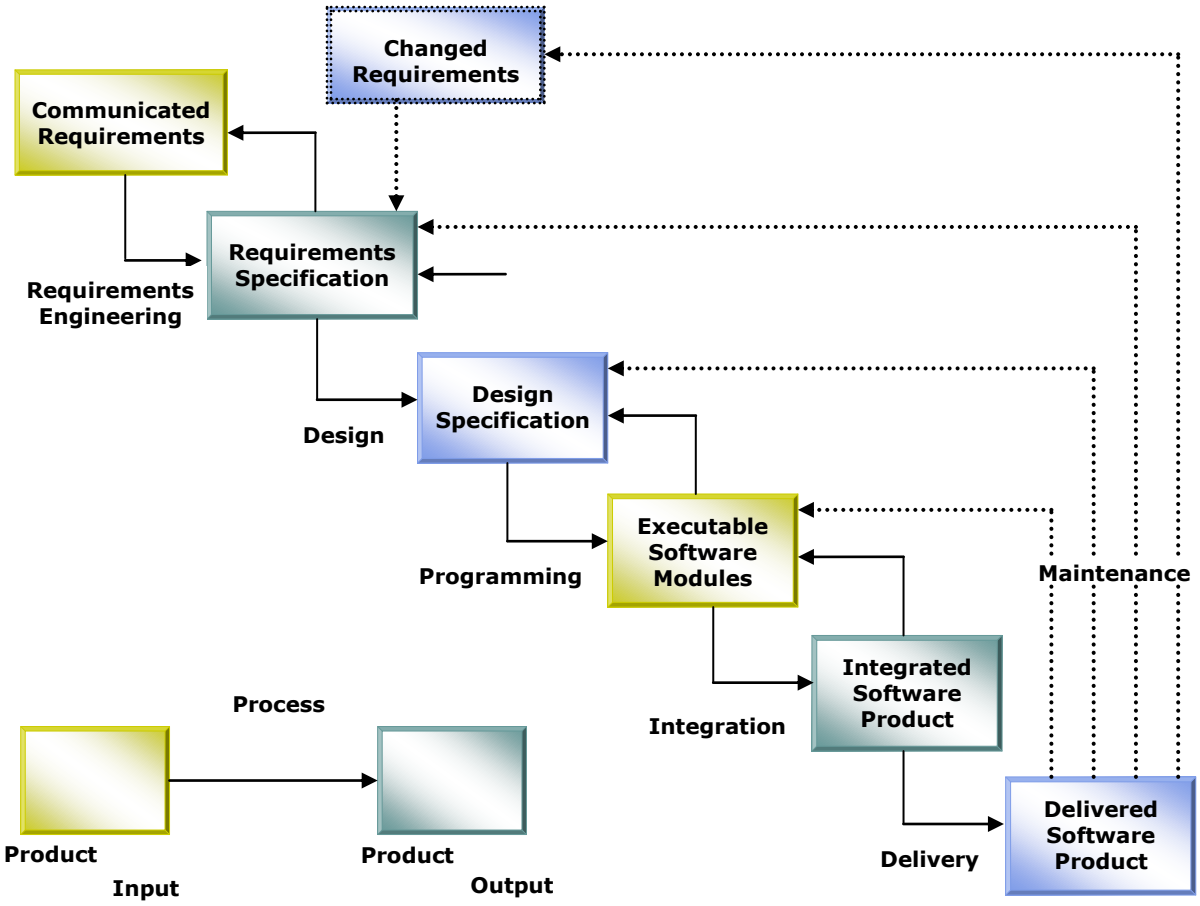


Fig: Water Fall Model

2.2. STUDY OF THE SYSTEM

GUI'S

In the flexibility of the uses the interface has been developed a graphics concept in mind, associated through a browses interface. The GUI'S at the top level have been categorized as

1. Administrative user interface
2. The operational or generic user interface

The administrative user interface concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection. The interfaces help the administrations with all the transactional states like Data insertion, Data deletion and Date updation along with the extensive data search capabilities.

The operational or generic user interface helps the users upon the system in transactions through the existing data and required services. The operational user interface also helps the ordinary users in managing their own information helps the ordinary users in managing their own information in a customized manner as per the assisted flexibilities.

NUMBER OF MODULES

The system after careful analysis has been identified to be presented with the following modules:

The modules involved are:

- Admin
- Job Seeker
- Job Provider
- Notification
- Search
- Report
- Authentication

Admin

In this module Admin will add all the qualifications, skill, experience, city, state, country and update and delete information about the job provider or job seeker he can also search for the job seeker and he can send mail to offer the job to job seeker and he can also see the jobs add by the job provider.

Job Seeker

In this module Job Seeker register him self and upload his resume and fill the profile give by admin and after login he will search for the job on various conditions and he can change his profiles and resume and he can apply for the jobs based on various conditions. He can see the response of the company and he can call the company person for the interview.

Job provider

In this module Job Provider register him self and his company and after login he will add new job and he can search for the job seekers on various condition and he can offer the job to job seeker according to the job profile and he can also see the response from the job seekers and send the mail.

Notification

In this module admin and job provider send the notification to the job seeker in the form of email.

Reports:-

This module contains all the information about the reports generated by the admin based on the particular job seeker, particular job provider, all job seeker and job provider, all jobs generated by the job providers.

Authentication:-

This module contains all the information about the authenticated user. User without his username and password can't enter into the login if he is only the authenticated user then he can enter to his login.

PROJECT INSTRUCTIONS:

- Based on the given requirements, conceptualize the Solution Architecture. Choose the domain of your interest otherwise develop the application for ultimatedotnet.com. Depict the various architectural components, show interactions and connectedness and show internal and external elements. Design the web services, web methods and database infrastructure needed both and client and server.

- Provide an environment for upgradation of application for newer versions that are available in the same domain as web service target.

Chapter 3

SYSTEM DESIGN

3.1. INTRODUCTION

Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm and area of application. Design is the first step in the development phase for any engineered product or system. The designer's goal is to produce a model or representation of an entity that will later be built. Beginning, once system requirement have been specified and analyzed, system design is the first of the three technical activities - design, code and test that is required to build and verify software.

The importance can be stated with a single word "Quality". Design is the place where quality is fostered in software development. Design provides us with representations of software that can assess for quality. Design is the only way that we can accurately translate a customer's view into a finished software product or system. Software design serves as a foundation for all the software engineering steps that follow. Without a strong design we risk building an unstable system – one that will be difficult to test, one whose quality cannot be assessed until the last stage.

During design, progressive refinement of data structure, program structure, and procedural details are developed reviewed and documented. System design can be viewed from either technical or project management perspective. From the technical point of view, design is comprised of four activities – architectural design, data structure design, interface design and procedural design.

3.2. DATA FLOW DIAGRAMS

A data flow diagram is graphical tool used to describe and analyze movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processed, may be described logically and independently of physical components associated with the system. These are known as the logical data flow diagrams. The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations. A full description of a system actually consists of a set of data flow diagrams. Using two familiar notations Yourdon, Gane and Sarson notation develops the data flow diagrams. Each component in a DFD is labeled with a descriptive name. Process is further identified with a number that will be used for identification purpose. The development of DFD'S is done in several levels. Each process in lower level diagrams can be broken down into a more detailed DFD in the next level. The lop-level diagram is often called context diagram. It consists a single process bit, which plays vital role in studying the current system. The process in the context level diagram is exploded into other process at the first level DFD.

The idea behind the explosion of a process into more process is that understanding at one level of detail is exploded into greater detail at the next level. This is done until further explosion is necessary and an adequate amount of detail is described for analyst to understand the process.

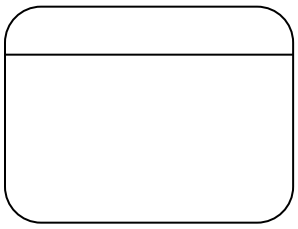
Larry Constantine first developed the DFD as a way of expressing system requirements in a graphical from, this lead to the modular design.

A DFD is also known as a "bubble Chart" has the purpose of clarifying system requirements and identifying major transformations that will become programs in system design. So it is the starting point of the design to the lowest level of detail. A DFD consists of a series of bubbles joined by data flows in the system.

DFD SYMBOLS:

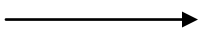
In the DFD, there are four symbols

1. A square defines a source(originator) or destination of system data
2. An arrow identifies data flow. It is the pipeline through which the information flows
3. A circle or a bubble represents a process that transforms incoming data flow into outgoing data flows.
4. An open rectangle is a data store, data at rest or a temporary repository of data



Process that transforms data flow.

Source or Destination of data



Data flow

Data Store

Fig 1

1st Level DFD's

DFD For New Job Seeker Creation

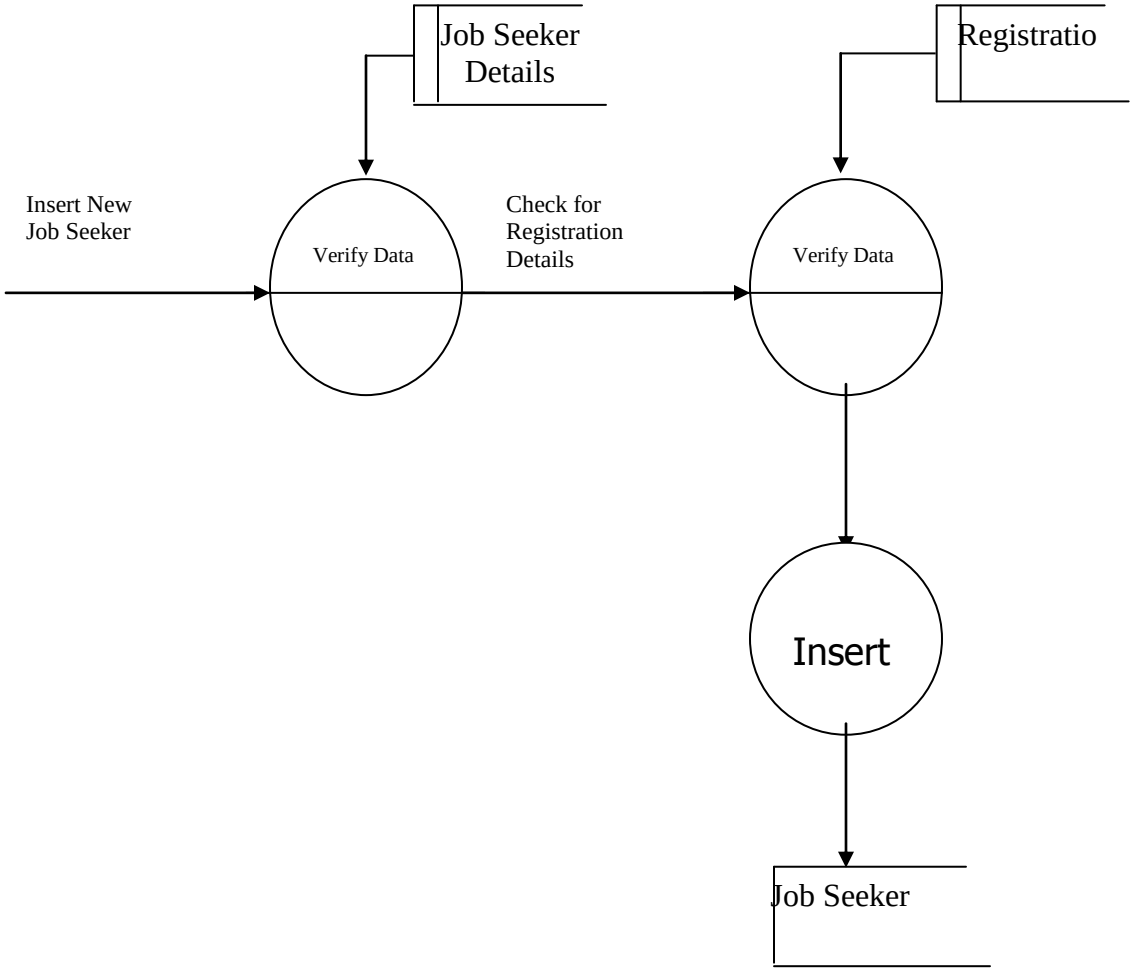


Fig 2

DFD For New Job Seeker Creation

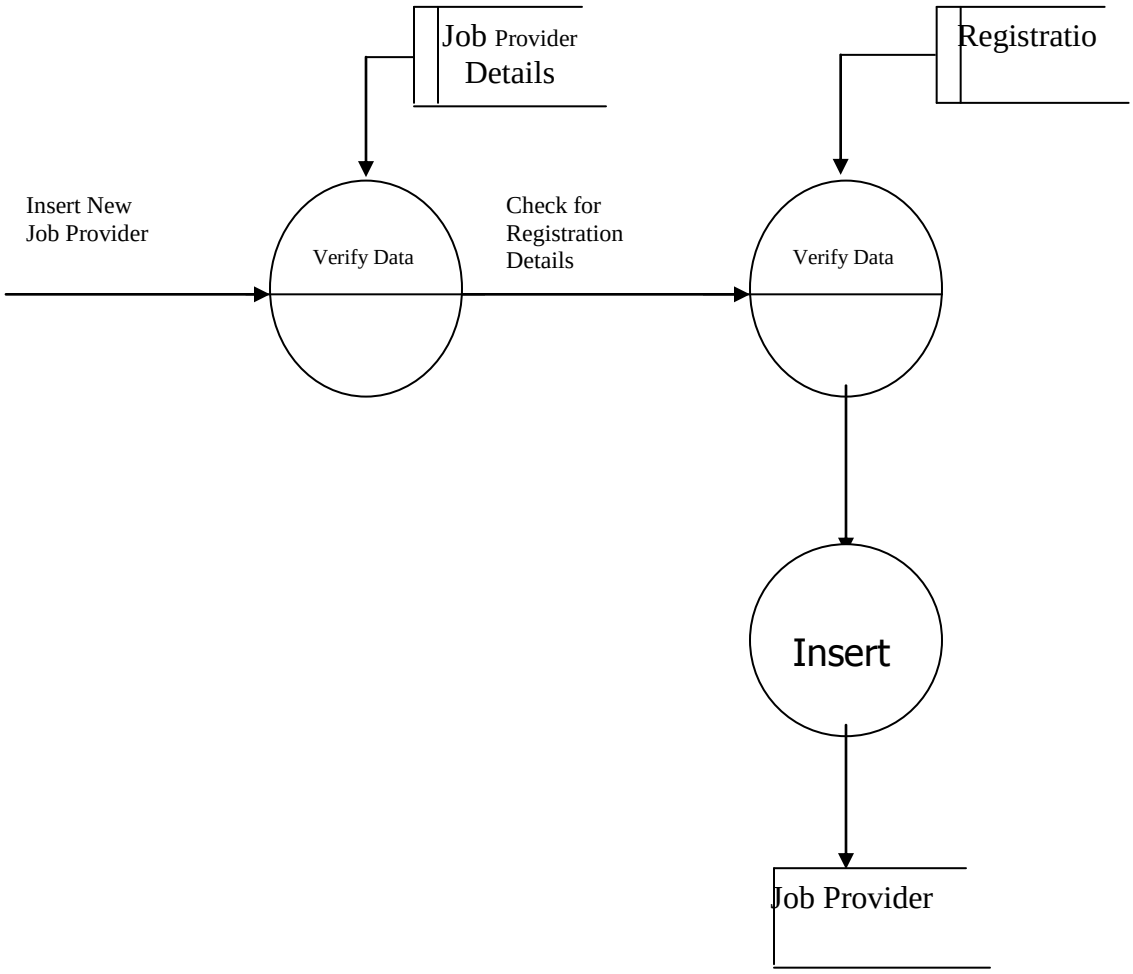


Fig 3

DFD For New Job Search Creation

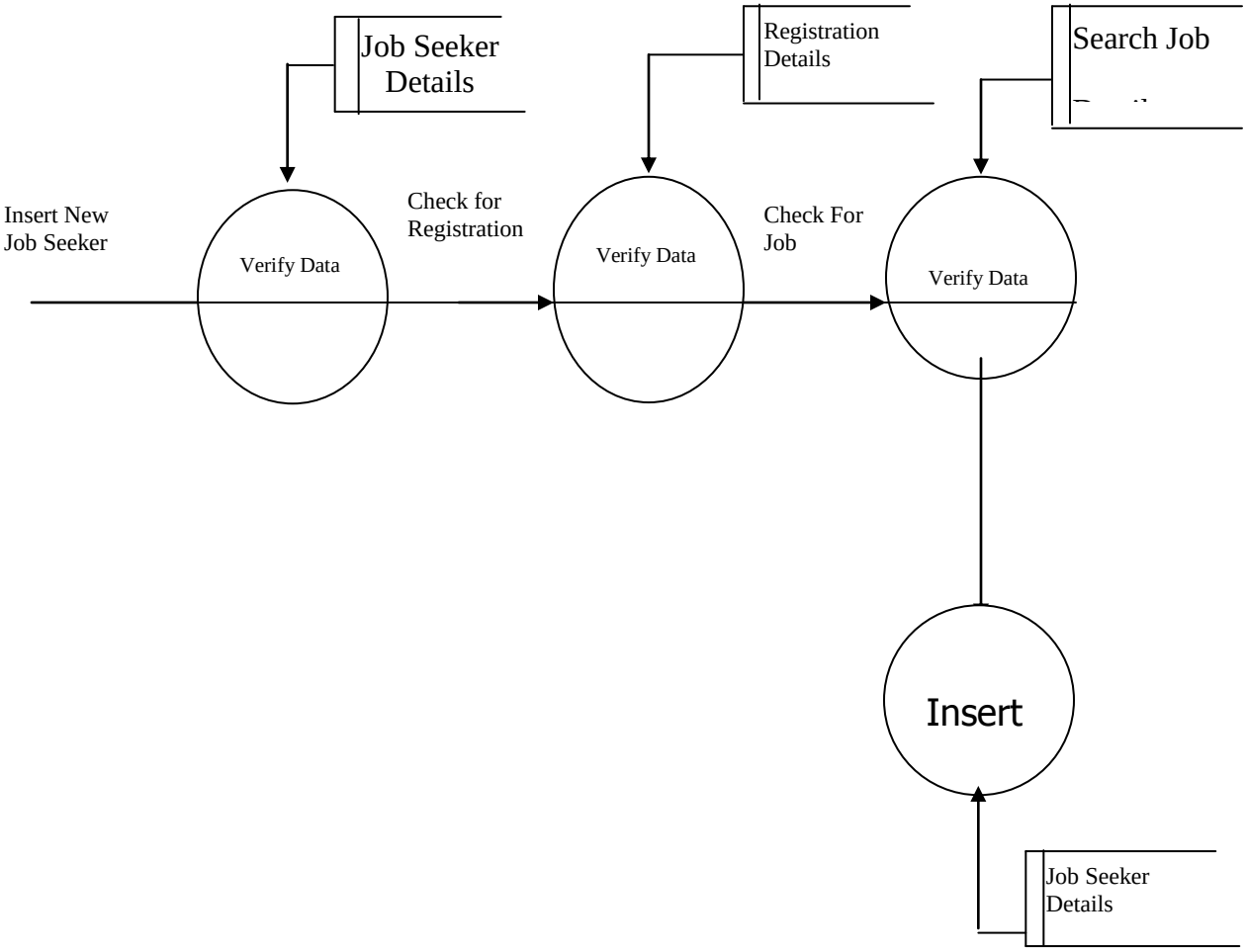


Fig 4

2nd Level DFD's

DFD For New Recruitment Creation

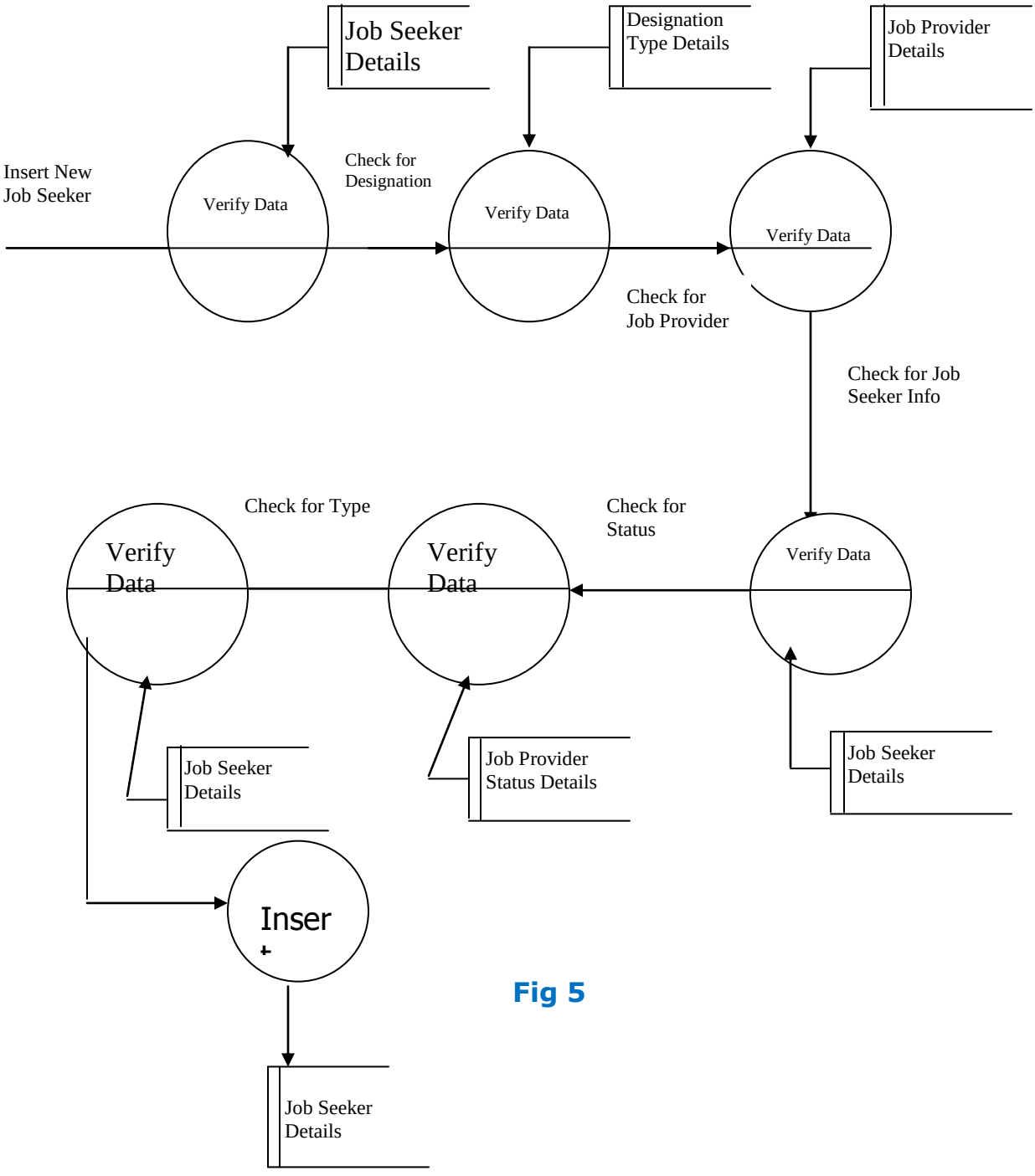


Fig 5

3rd Level DFD'S

DFD For New Recruitment Creation

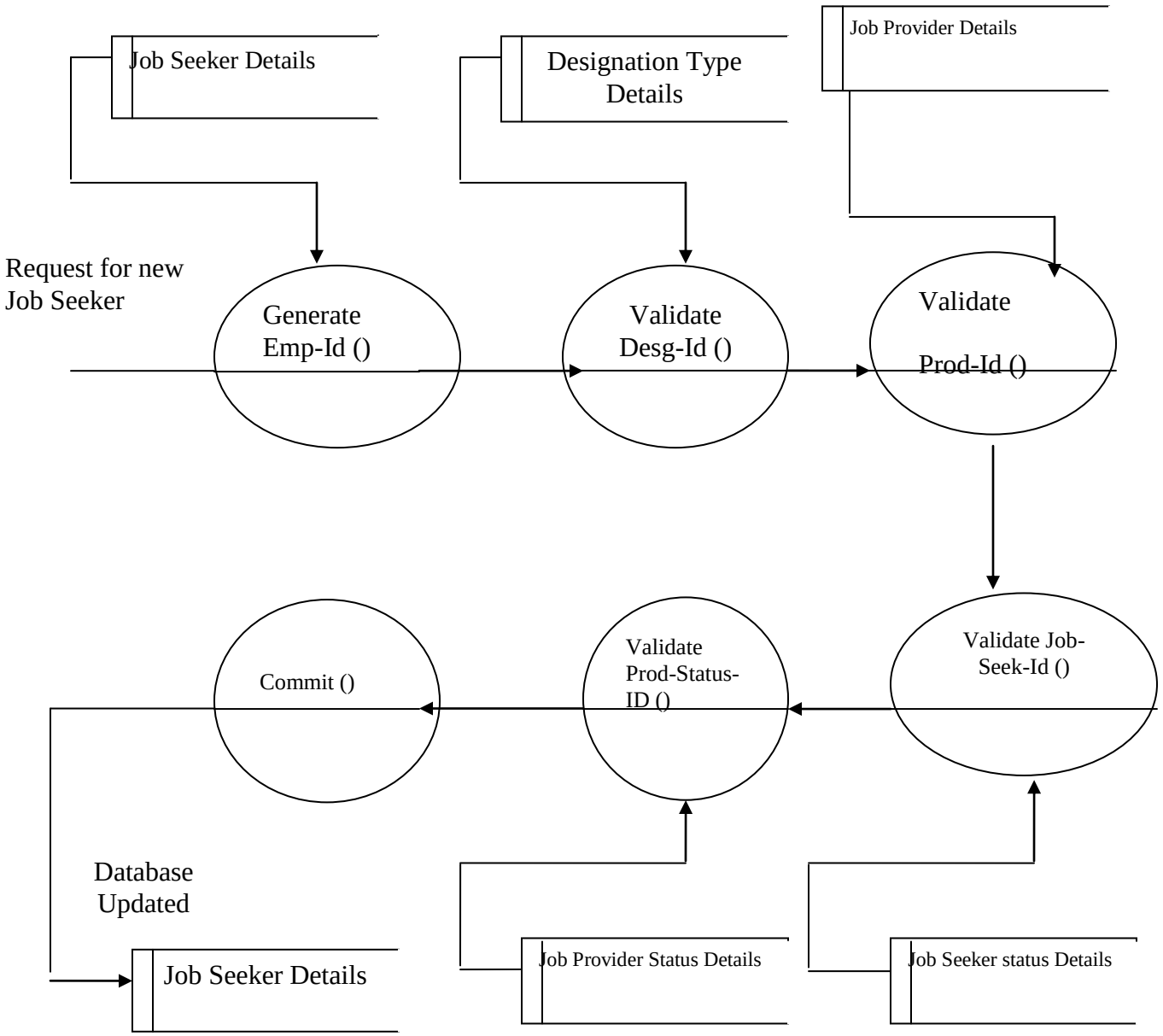


Fig 6

Collaboration Diagrams

Admin Login
Admin Add Collaboration Diagram

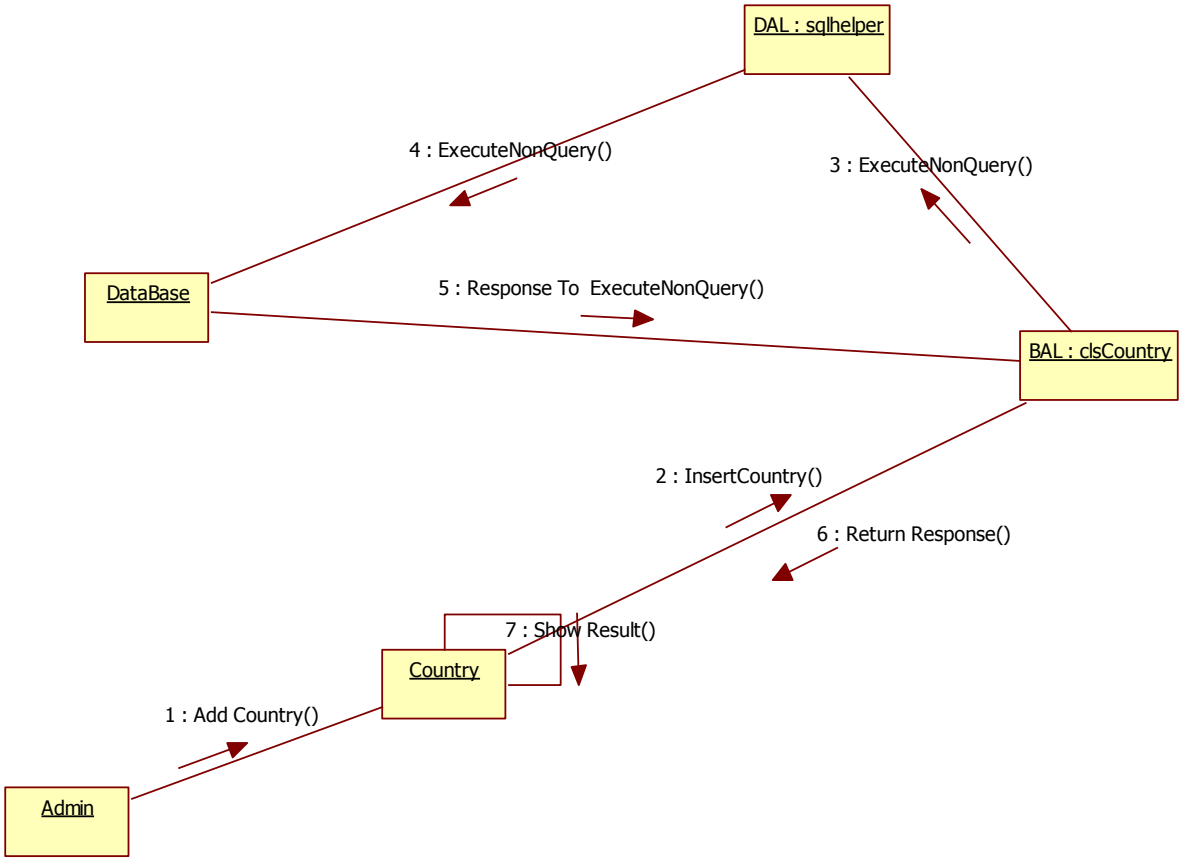


Fig 7

Admin Add City Collaboration Diagram

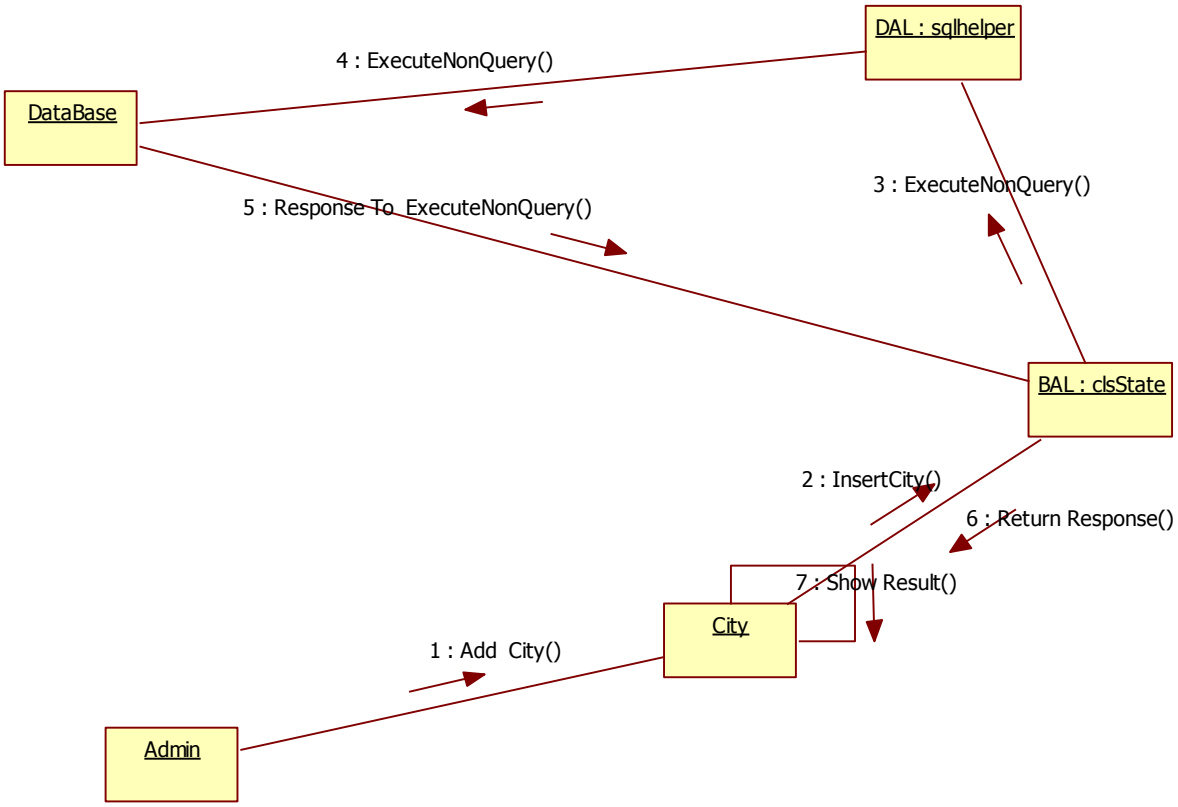


Fig 8

Registration Collaboration Diagram

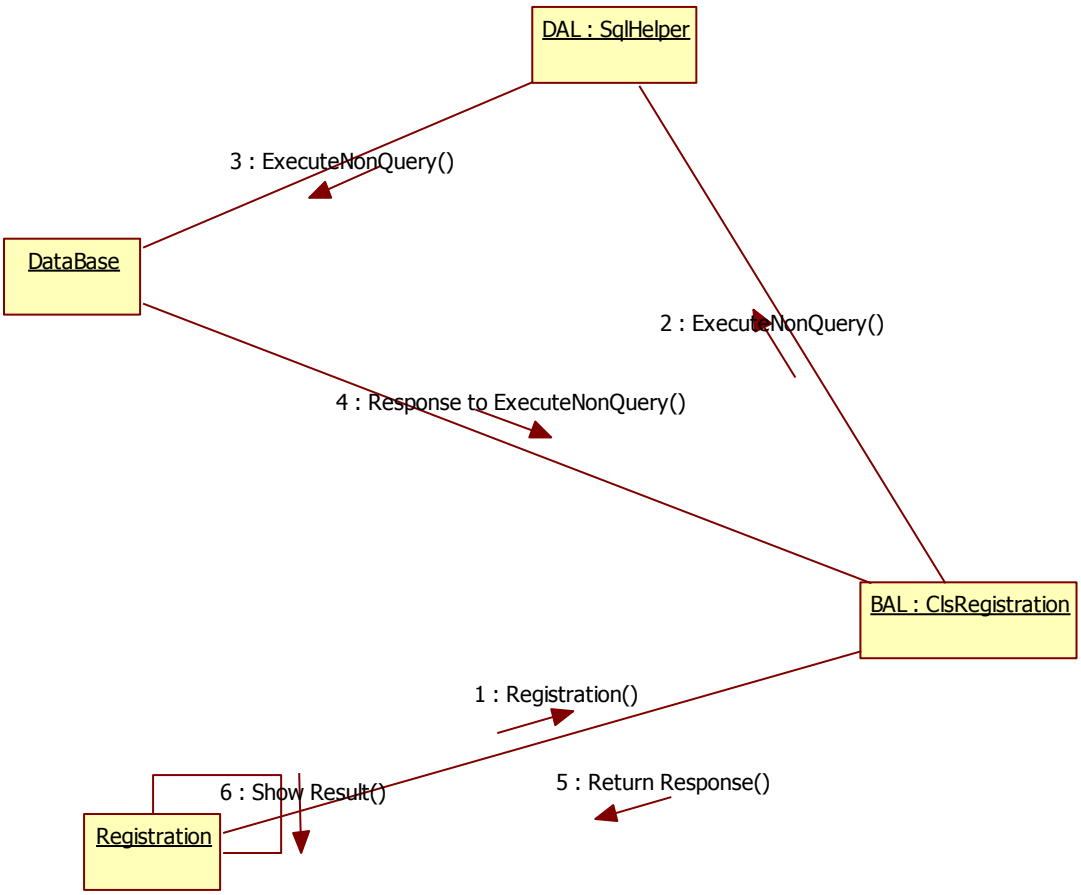

DAL : SqlHelper
3 : ExecuteNonQuery()
DataBase
2 : ExecuteNonQuery()
4 : Response to ExecuteNonQuery()
BAL : ClsRegistration
1 : Registration()
6 : Show Result()
5 : Return Response()
Registration

Fig 9

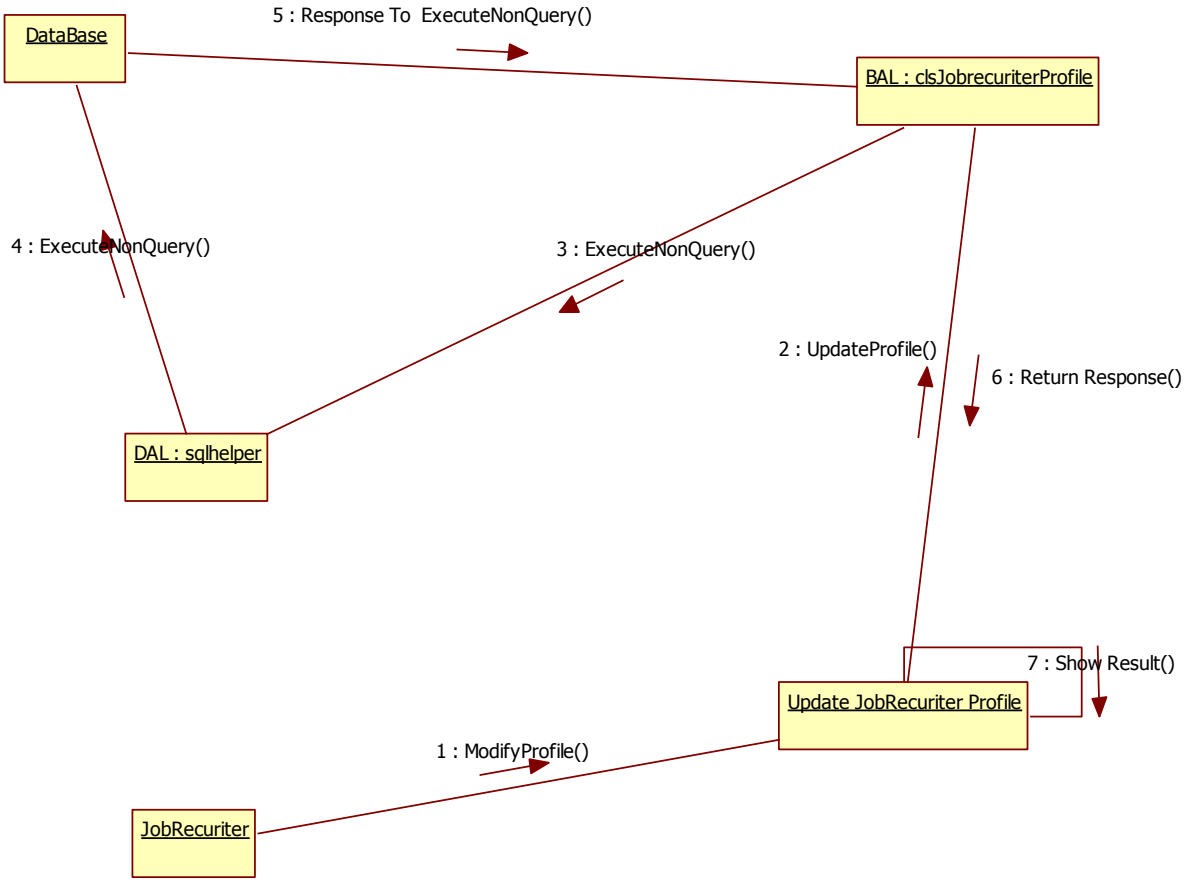

DataBase
5 : Response To ExecuteNonQuery()
BAL : clsJobrecuriterProfile
4 : ExecuteNonQuery()
3 : ExecuteNonQuery()
2 : UpdateProfile()
6 : Return Response()
DAL : sqlhelper
7 : Show Result()
Update JobRecuriter Profile
1 : ModifyProfile()
JobRecuriter

Fig 10

City

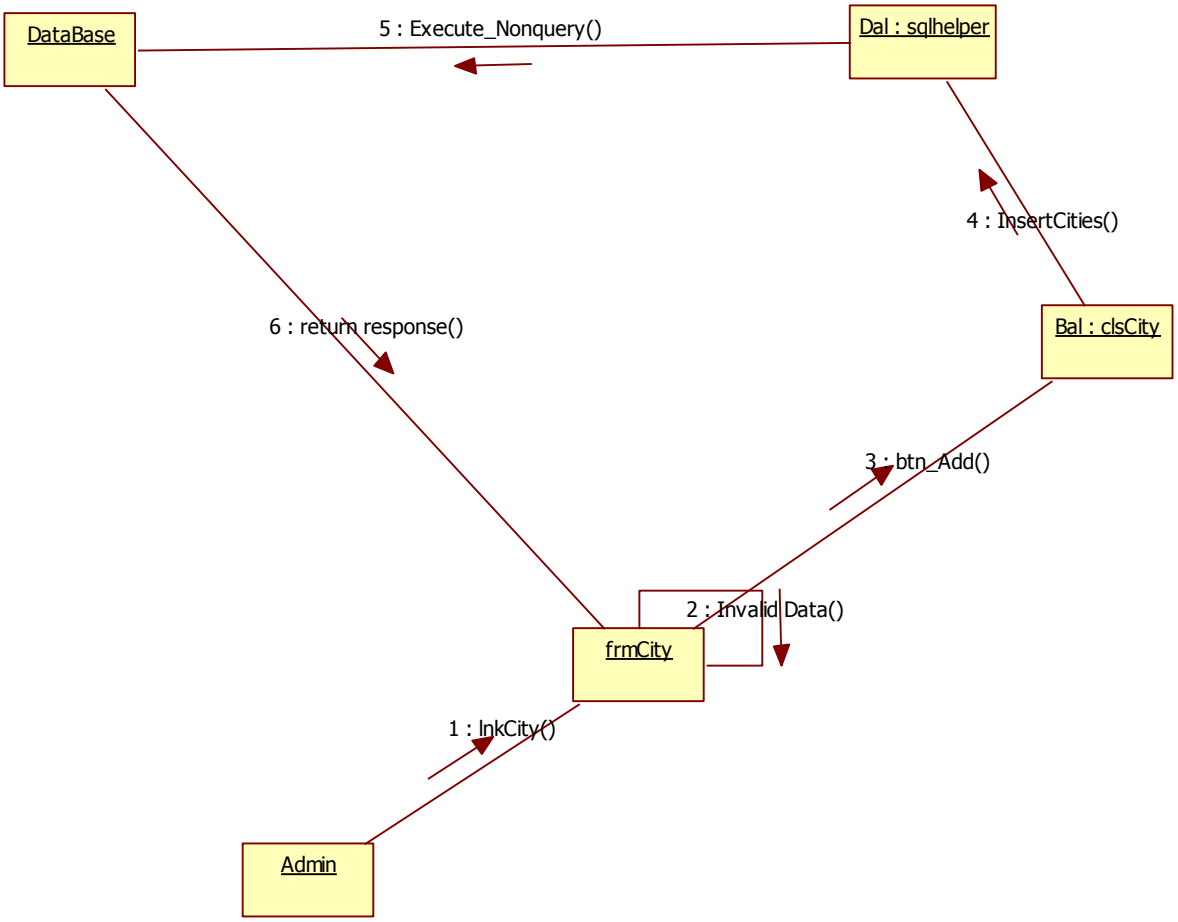


Fig 11

Country

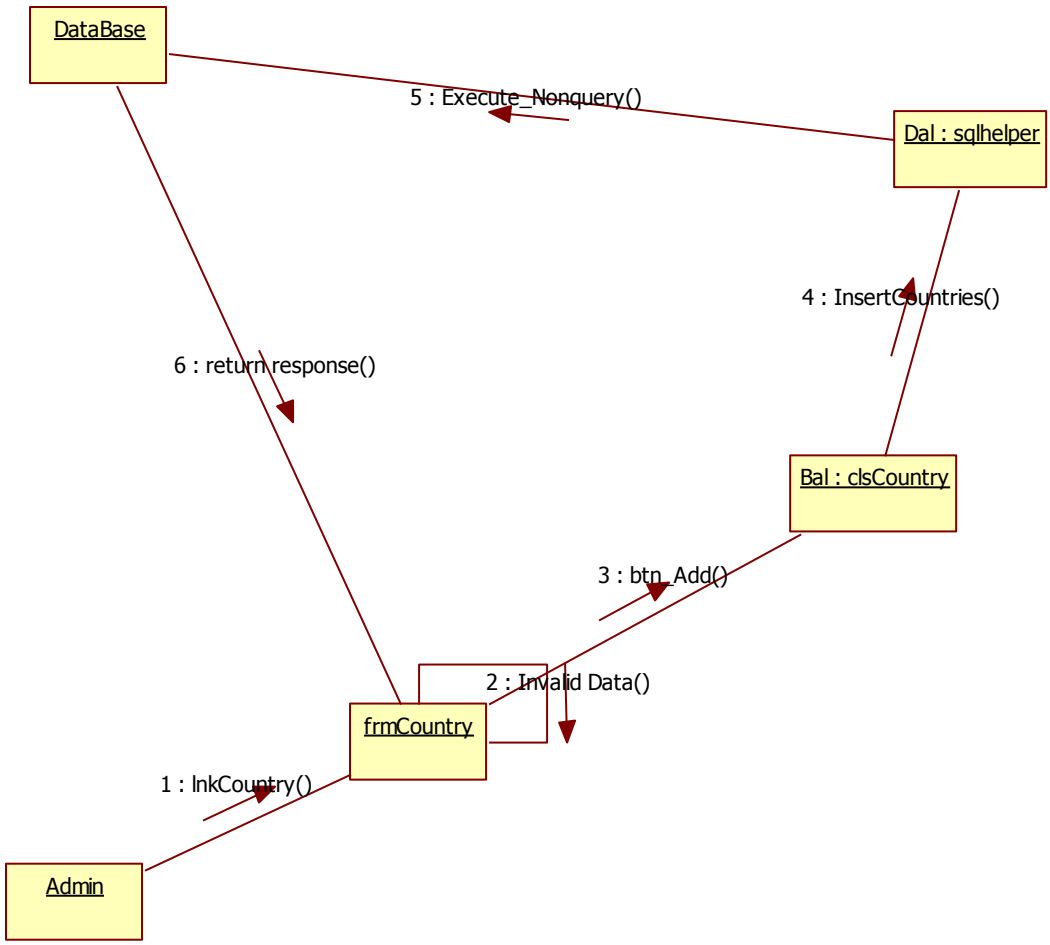


Fig 12

User Registration

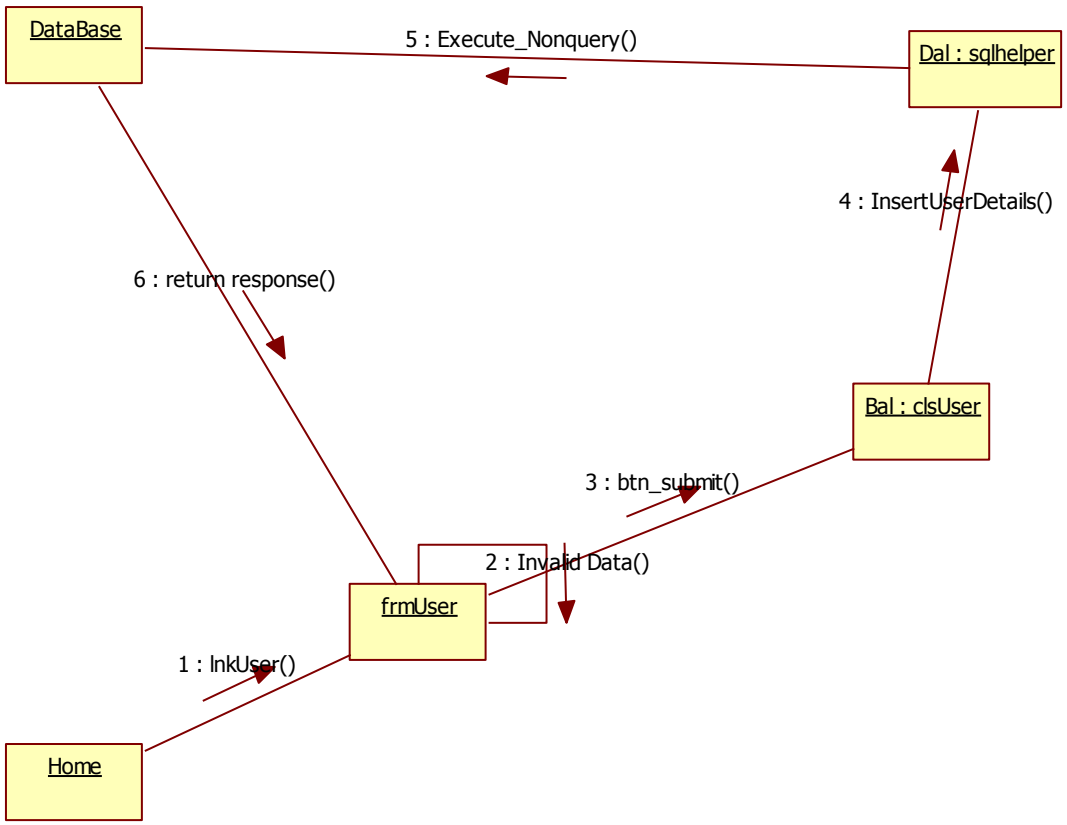

DataBase
5 : Execute_Nonquery()
Dal : sqlhelper
4 : InsertUserDetails()
6 : return response()
Bal : clsUser
3 : btn_submit()
2 : Invalid Data()
frmUser
1 : lnkUser()
Home

Fig 13

Sequence Diagrams:

SEQUENCE DIAGRAMS

Sequence Diagrams Represent the objects participating the interaction horizontally and time vertically.

Admin Login

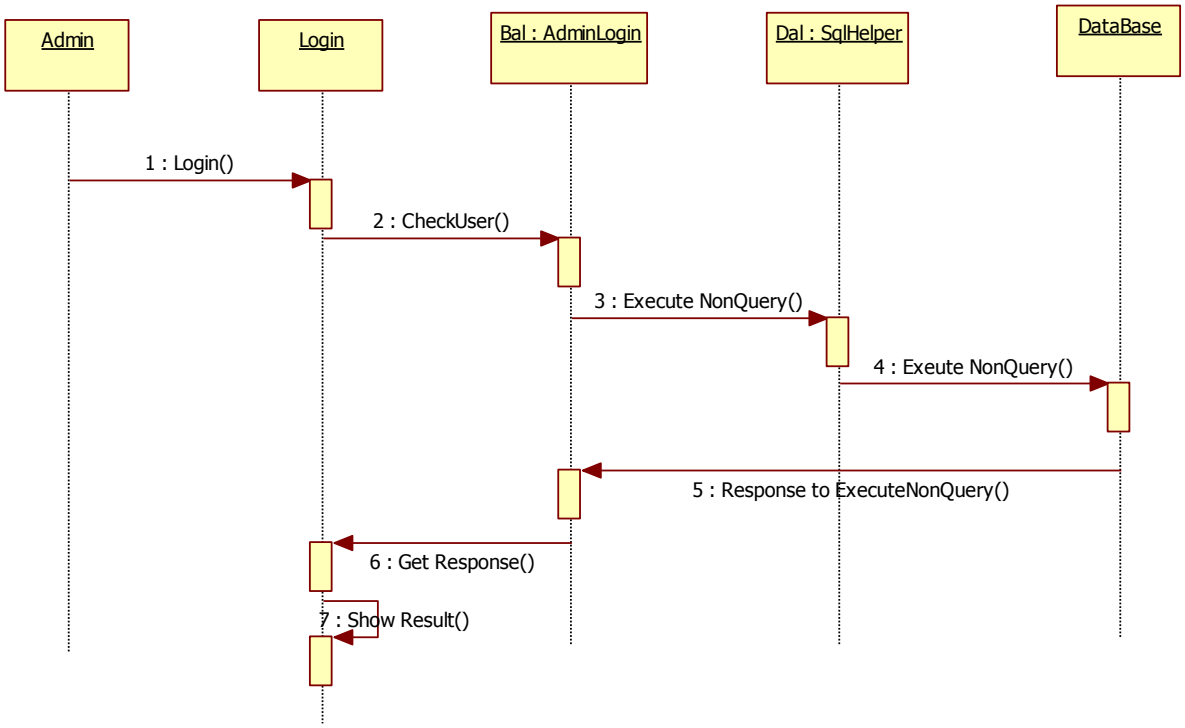


Fig 14

Admin Add Country Sequence Diagram

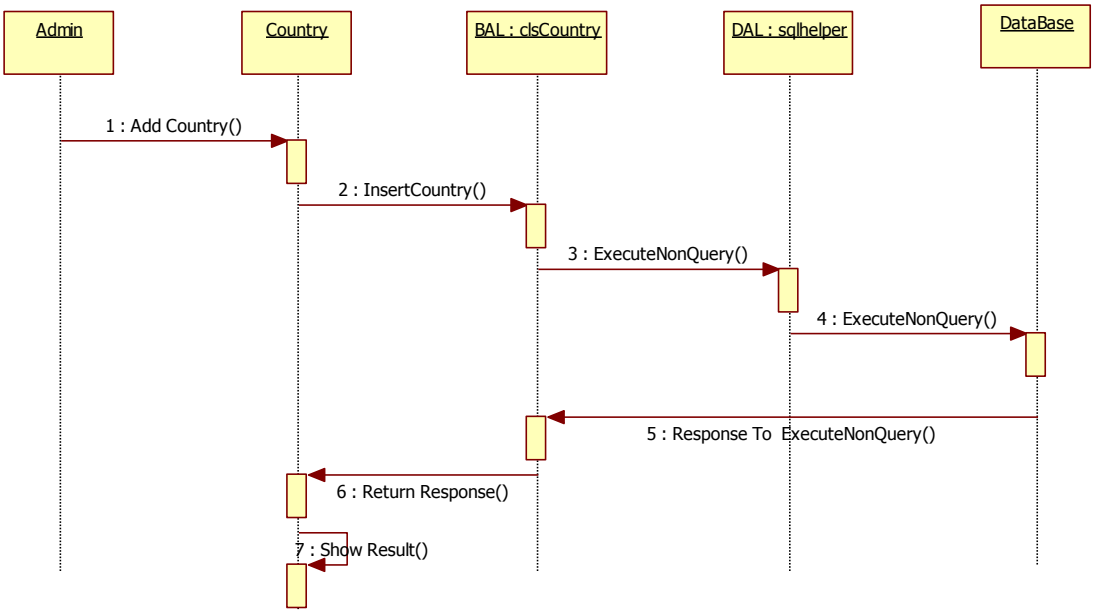


Fig 15

Admin Add State Sequence Diagram

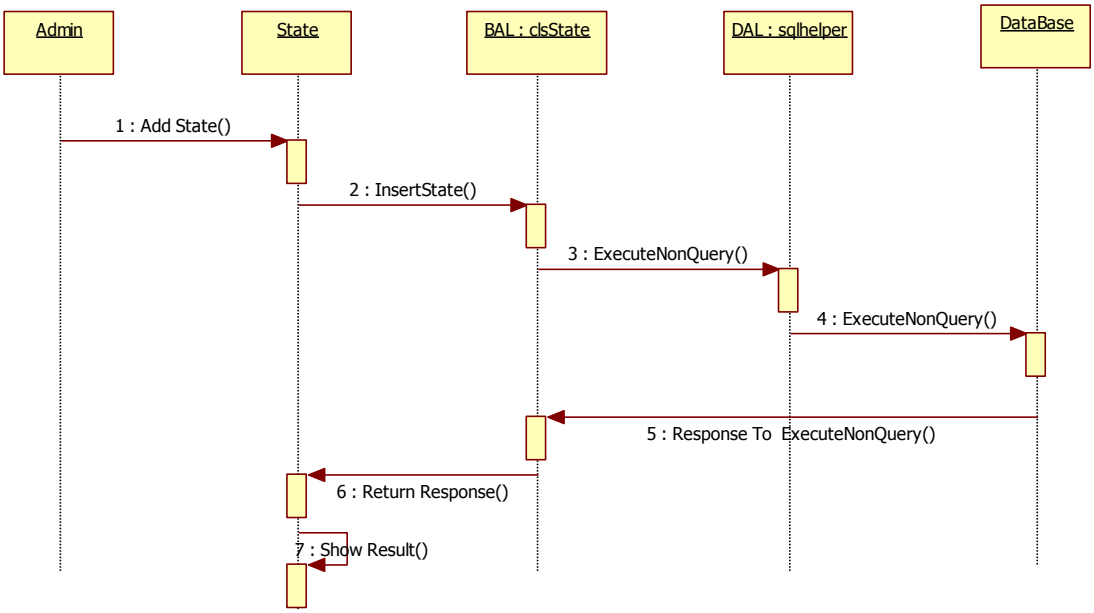


Fig 16

Admin Add City Sequence Diagram

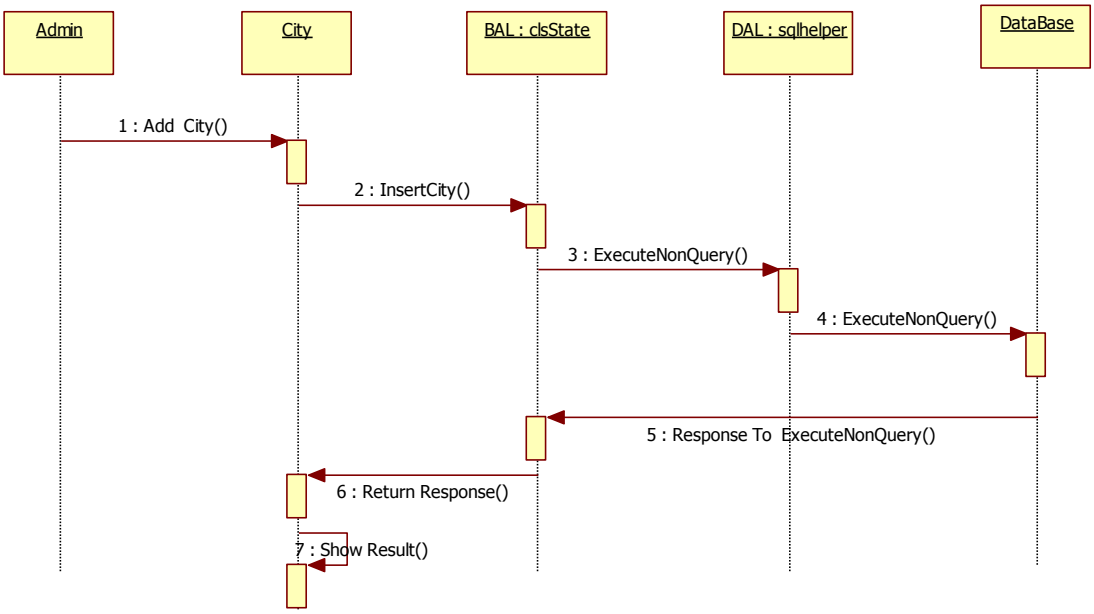


Fig 17

Jobseeker Update Profile Sequence Diagram

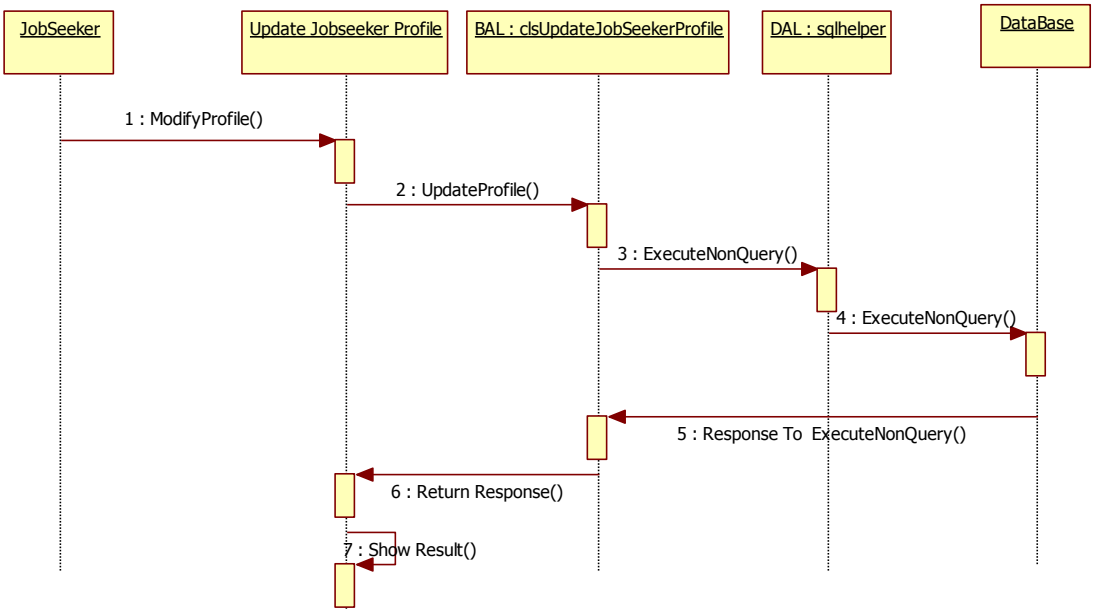


Fig 18

JobRecuriter Update Profile Sequence Diagram

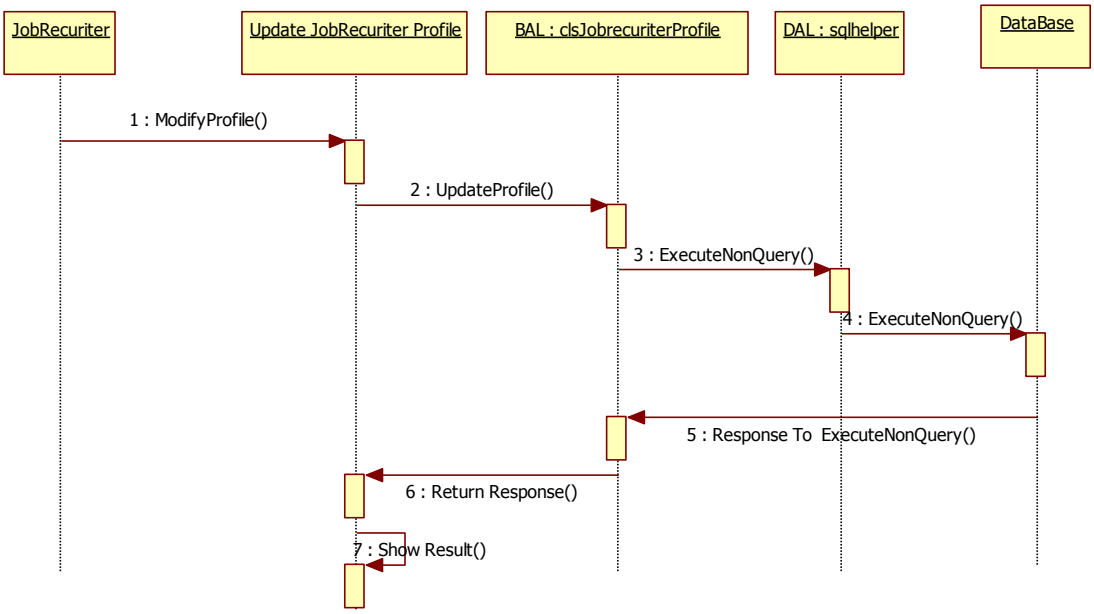


Fig 19

Registration Sequence Diagram

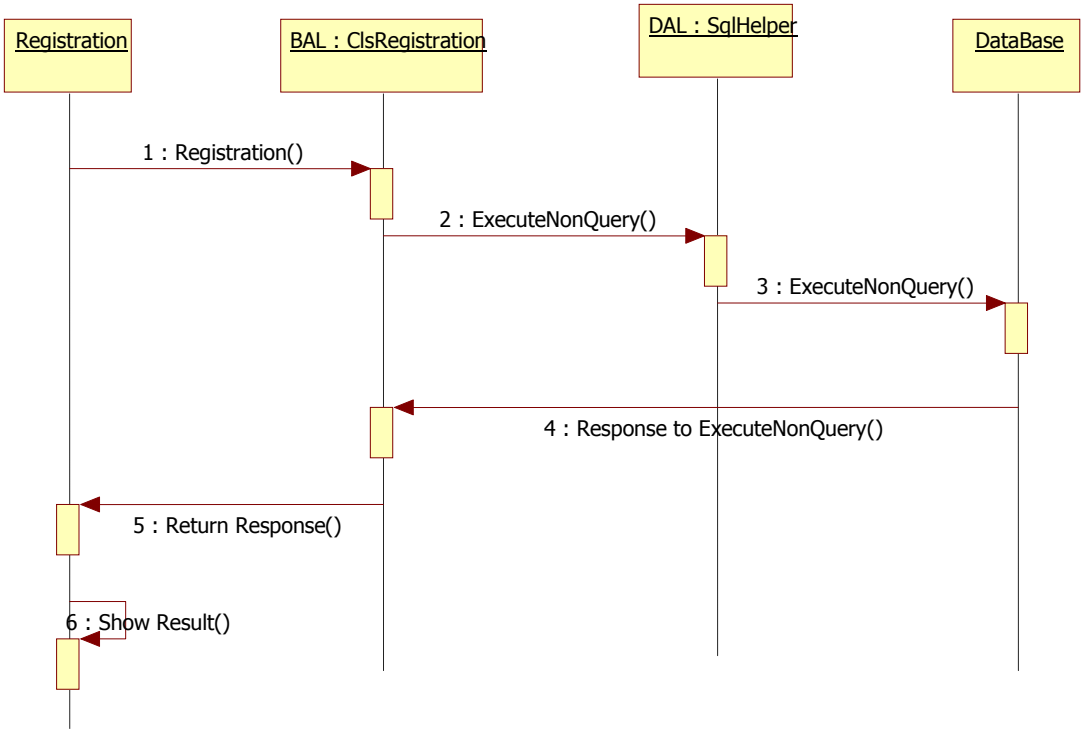


Fig 20

3.3. DATA DICTONARY

After carefully understanding the requirements of the client the the entire data storage requirements are divided into tables. The below tables are normalized to avoid any anomalies during the course of data entry.

Column Name	Data Type	Length	Allow Nulls
BusinessSectorID	int	4	
BusinessSector	varchar	50	

City Details

Column Name	Data Type	Length	Allow Nulls
CityId	int	4	
CityName	varchar	50	✓
Description	varchar	80	✓
StateId	int	4	✓

Country Details

Column Name	Data Type	Length	Allow Nulls
CountryId	int	4	
CountryName	varchar	50	✓
Description	varchar	80	✓

Experience Detail

Column Name	Data Type	Length	Allow Nulls
ExpId	int	4	
ExpType	varchar	50	✓
Duration	char	10	✓

Functional Area

Column Name	Data Type	Length	Allow Nulls
FunctionalId	int	4	
FunctionalArea	varchar	50	✓
Description	varchar	50	✓

Job Openinng Detail

Column Name	Data Type	Length	Allow Nulls
UserName	nvarchar	50	✓
JobID	nvarchar	50	
JobCategory	nvarchar	50	✓
SkillsRequired	nvarchar	100	✓
Role	nvarchar	15	✓
MinimumQualification	nvarchar	50	✓
MaximumAge	tinyint	1	✓
ExperienceYears	tinyint	1	✓
ExpectedSalary	money	8	✓
JobLocation	nvarchar	50	✓
JobOpeningDate	datetime	8	✓
JobClosingDate	datetime	8	✓
JobDescription	nvarchar	2000	✓

Jobseeker Response to Recruiter

Column Name	Data Type	Length	Allow Nulls
JobSeekerID	varchar	50	
RecruiterName	varchar	50	
JobID	varchar	50	
DateOfResponse	datetime	8	✓

Job Type Detail

Column Name	Data Type	Length	Allow Nulls
JobId	int	4	
JobType	varchar	50	✓
Description	varchar	80	✓

Location Master

Column Name	Data Type	Length	Allow Nulls
LocationId	int	4	
LocationName	varchar	50	✓
Description	varchar	80	✓
StateId	int	4	✓

Qualification

Column Name	Data Type	Length	Allow Nulls
QualificationId	int	4	
Qualification	varchar	50	✓
Description	varchar	50	✓
QualificationLevel	int	4	✓

Recruiter Account Details

Column Name	Data Type	Length	Allow Nulls
UserName	nvarchar	50	
Password	nvarchar	50	
HintQuestion	nvarchar	100	✓
Answer	nvarchar	100	✓
[Date]	datetime	8	✓

Recruiter Organization Details

Column Name	Data Type	Length	Allow Nulls
UserName	nvarchar	50	
OrganisationName	nvarchar	50	
BusinessSector	nvarchar	50	
Certificate1	nvarchar	50	✓
Certificate2	nvarchar	50	✓
Certificate3	nvarchar	50	✓
WebSite	nvarchar	100	✓
EmailID1	nvarchar	100	
EmailID2	nvarchar	100	✓
Address	nvarchar	1024	✓
OrganisationEnvironm	nvarchar	2000	✓
TermsAndCondition	nvarchar	2000	✓
Others	nvarchar	2000	✓
SizeOfOrganisation	int	4	✓

Recruiter Response to Jobseeker

Column Name	Data Type	Length	Allow Nulls
JobSeekerName	varchar	50	
RecruiterName	varchar	50	
JobID	varchar	50	
DateOfResponse	datetime	8	

Skill Master

Column Name	Data Type	Length	Allow Nulls
SkillId	int	4	
SkillType	varchar	50	✓
Description	varchar	50	✓

State detail

Column Name	Data Type	Length	Allow Nulls
StateId	int	4	
StateName	varchar	50	✓
Description	varchar	80	✓
CountryId	int	4	✓

Student Detail

Column Name	Data Type	Length	Allow Nulls
StudentId	int	4	
RollNo	varchar	50	
Name	varchar	50	✓
QualificationId	int	4	✓
PassingYear	varchar	50	✓

Admin Login

Column Name	Data Type	Length	Allow Nulls
UserName	varchar	50	✓
Password	varchar	50	✓

Jobseeker Background Details

Column Name	Data Type	Length	Allow Nulls
JobseekerID	varchar	50	
HighestDegree	varchar	50	✓
Specialisation	varchar	50	✓
PassingYear	int	4	✓
Percentage	float	8	✓
University	varchar	50	✓
Country	varchar	50	✓
TechnicalExp	varchar	50	✓
WorkField	varchar	25	✓

Contact Details

Column Name	Data Type	Length	Allow Nulls
JobseekerId	varchar	50	
FirstName	char	20	✓
LastName	char	20	✓
DOB	datetime	8	✓
Address	varchar	50	✓
City	varchar	50	✓
State	varchar	50	✓
PinCode	int	4	✓
Country	varchar	50	✓
EmailID	varchar	25	✓
Phone1	varchar	20	✓
Phone2	varchar	20	✓
FaxNo	varchar	20	✓

Jobseeker Job Details

Column Name	Data Type	Length	Allow Nulls
JobseekerID	varchar	50	
JobTitle	varchar	50	
Location1	varchar	50	
State1	varchar	50	
Country1	varchar	50	
Location2	varchar	50	✓
State2	varchar	50	✓
Country2	varchar	50	✓
WillRelocate	varchar	50	✓
willTelecommute	varchar	50	✓
WillTravel	varchar	50	✓
FullTimeSalary	varchar	50	✓
HourlySalary	varchar	50	✓
TypeOfEmployment1	varchar	80	
TypeOfEmployment2	varchar	80	✓
TypeOfEmployment3	varchar	80	✓

Jobseeker Registration

Column Name	Data Type	Length	Allow Nulls
JobseekerID	varchar	50	
Password	varchar	50	
HintQuestion	varchar	50	
Answer	varchar	50	
[Date]	datetime	8	✓

Jobseeker Resume

Column Name	Data Type	Length	Allow Nulls
JobSeekerID	varchar	50	
Resume	ntext	16	✓
ResumeUpLoadDate	datetime	8	✓
LastModifiedDate	datetime	8	✓
ResumePath	varchar	100	✓

Jobseeker Technical Details

Column Name	Data Type	Length	Allow Nulls
JobseekerID	varchar	50	
Skill1	varchar	20	
Skill1Year	int	4	
Skill1LastUsed	int	4	
Skill2	varchar	20	✓
Skill2Year	int	4	✓
Skill2LastUsed	int	4	✓
Skill3	varchar	20	✓
Skill3Year	int	4	✓
Skill3LastUsed	int	4	✓
Skill4	varchar	20	✓
Skill4Year	int	4	✓
Skill4LastUsed	int	4	✓

Chapter 4

OUTPUT SCREENS

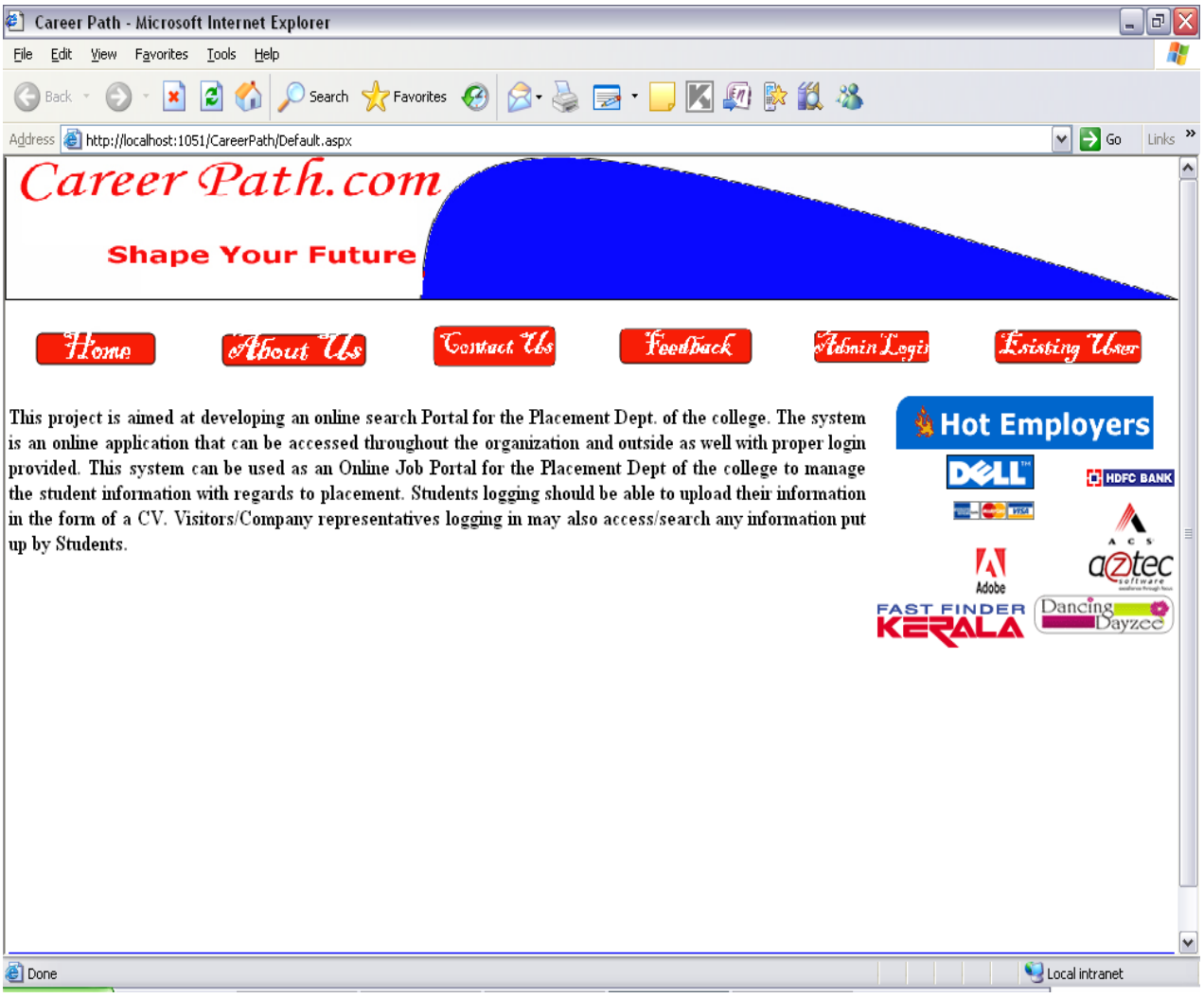


Fig 21

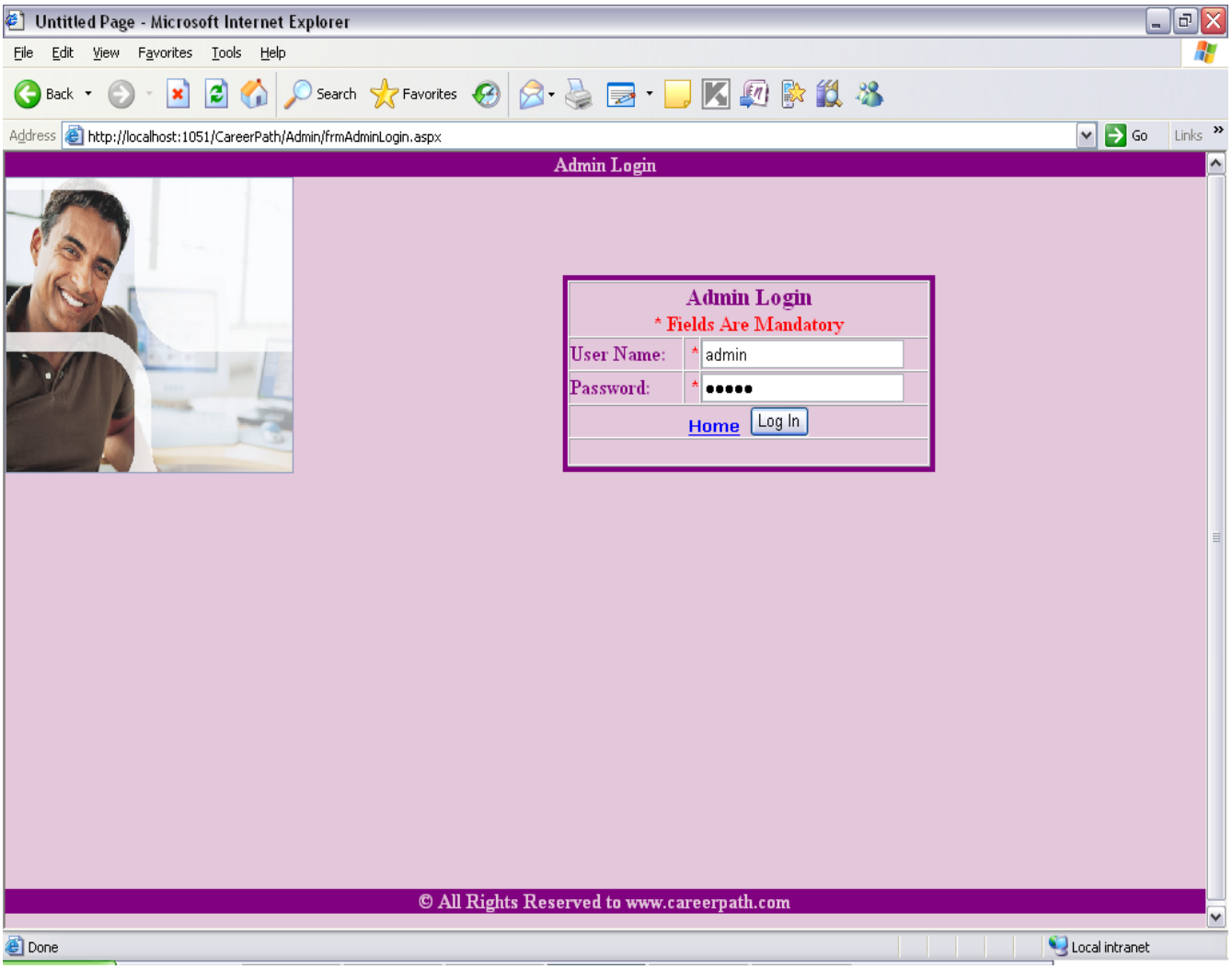

Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/Admin/frmAdminLogin.aspx
Go Links
Admin Login
Admin Login
* Fields Are Mandatory
User Name: * admin
Password: *
Home
Log In
© All Rights Reserved to www.careerpath.com
Done
Local intranet

Fig 22

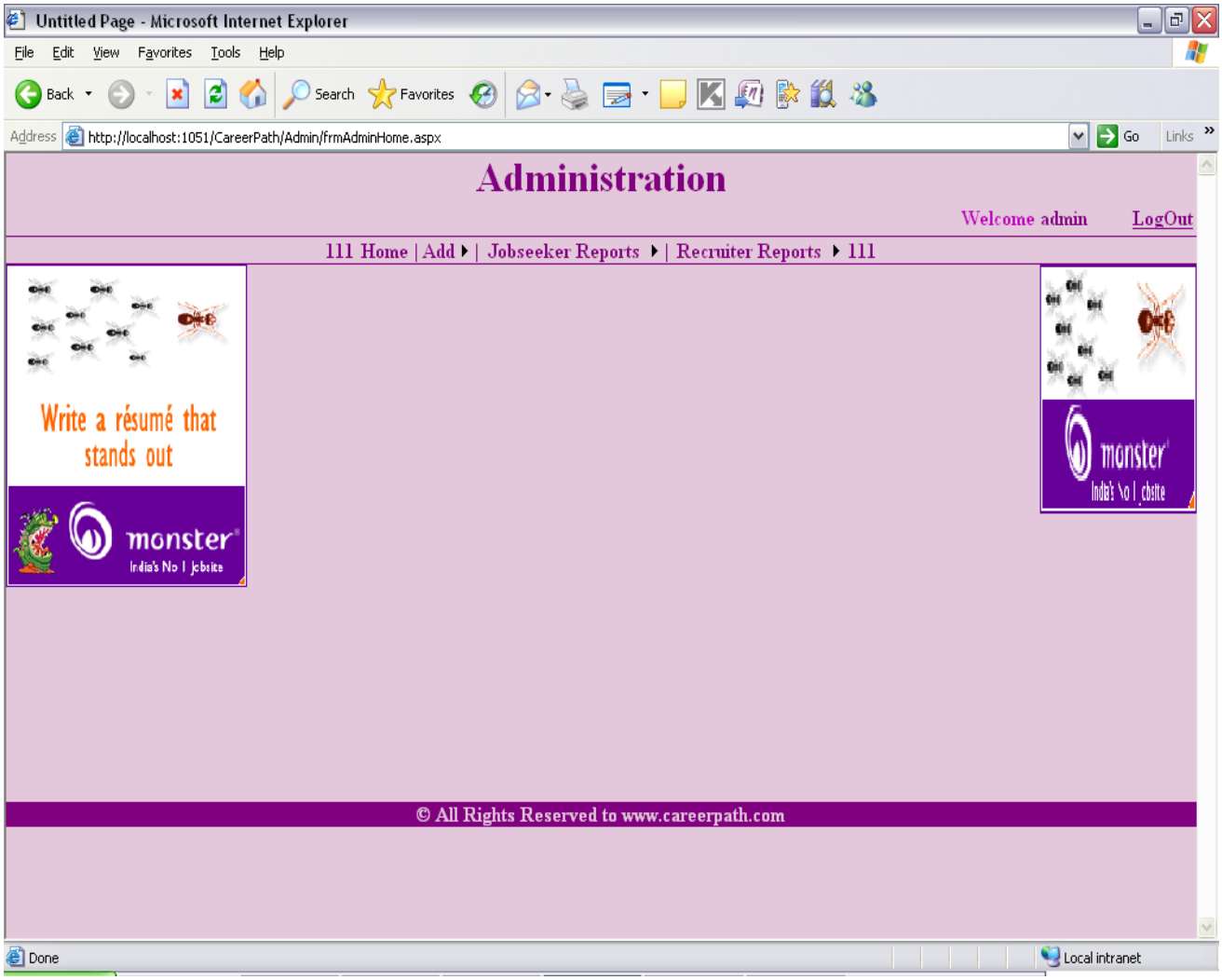

Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/Admin/frmAdminHome.aspx
Go Links
Administration
Welcome admin LogOut
111 Home | Add | Jobseeker Reports | Recruiter Reports | 111
Write a résumé that stands out
monster
India's No 1 Jobsite
monster
India's No 1 Jobsite
© All Rights Reserved to www.careerpath.com
Done
Local intranet

Fig 23

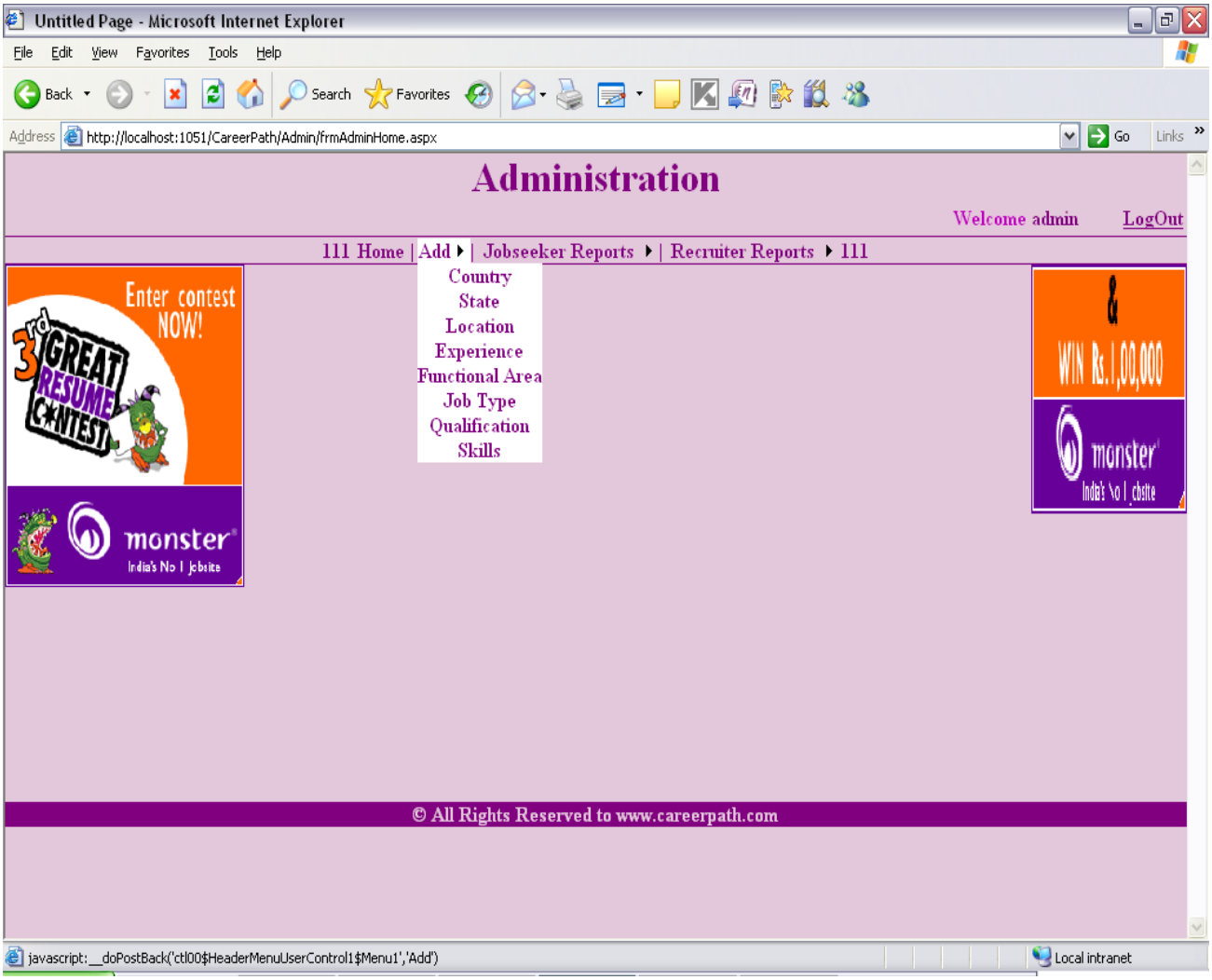

Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/Admin/frmAdminHome.aspx
Go Links
Administration
Welcome admin LogOut
111 Home | Add | Jobseeker Reports | Recruiter Reports | 111
Country
State
Location
Experience
Functional Area
Job Type
Qualification
Skills
Enter contest NOW!
GREAT RESUME CONTEST
monster
India's No 1 jobsite
WIN Rs.1,00,000
monster
© All Rights Reserved to www.careerpath.com
javascript:__doPostBack('ctl00$HeaderMenuUserControl1$Menu1','Add')
Local intranet

Fig 24

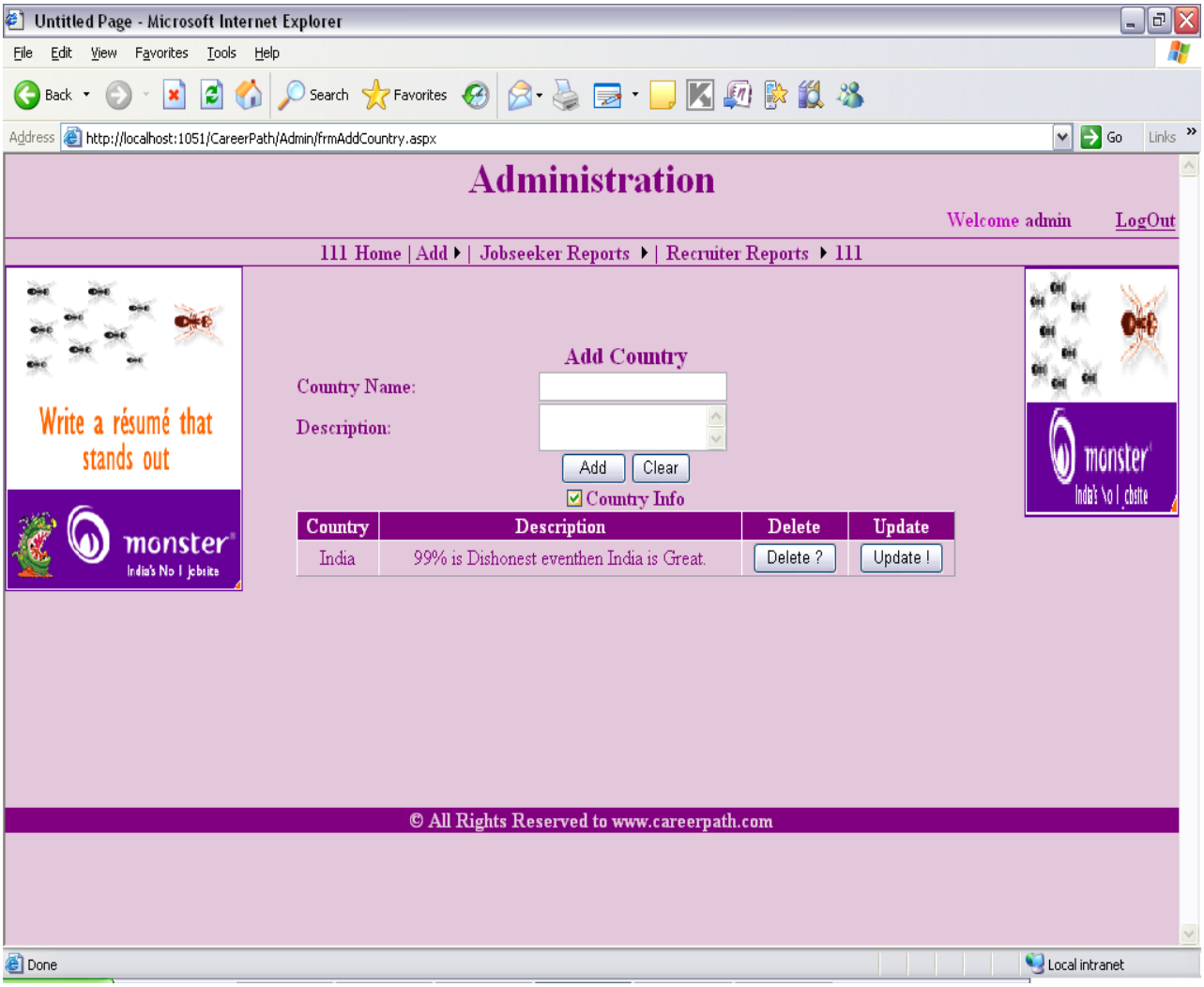

Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/Admin/frmAddCountry.aspx
Go Links
Administration
Welcome admin LogOut
111 Home | Add | Jobseeker Reports | Recruiter Reports | 111
Write a résumé that stands out
monster
India's No 1 Jobsite
Add Country
Country Name:
Description:
Add Clear
Country Info
Country Description Delete Update
India 99% is Dishonest eventhen India is Great. Delete ? Update !
© All Rights Reserved to www.careerpath.com
Done
Local intranet

Fig 25

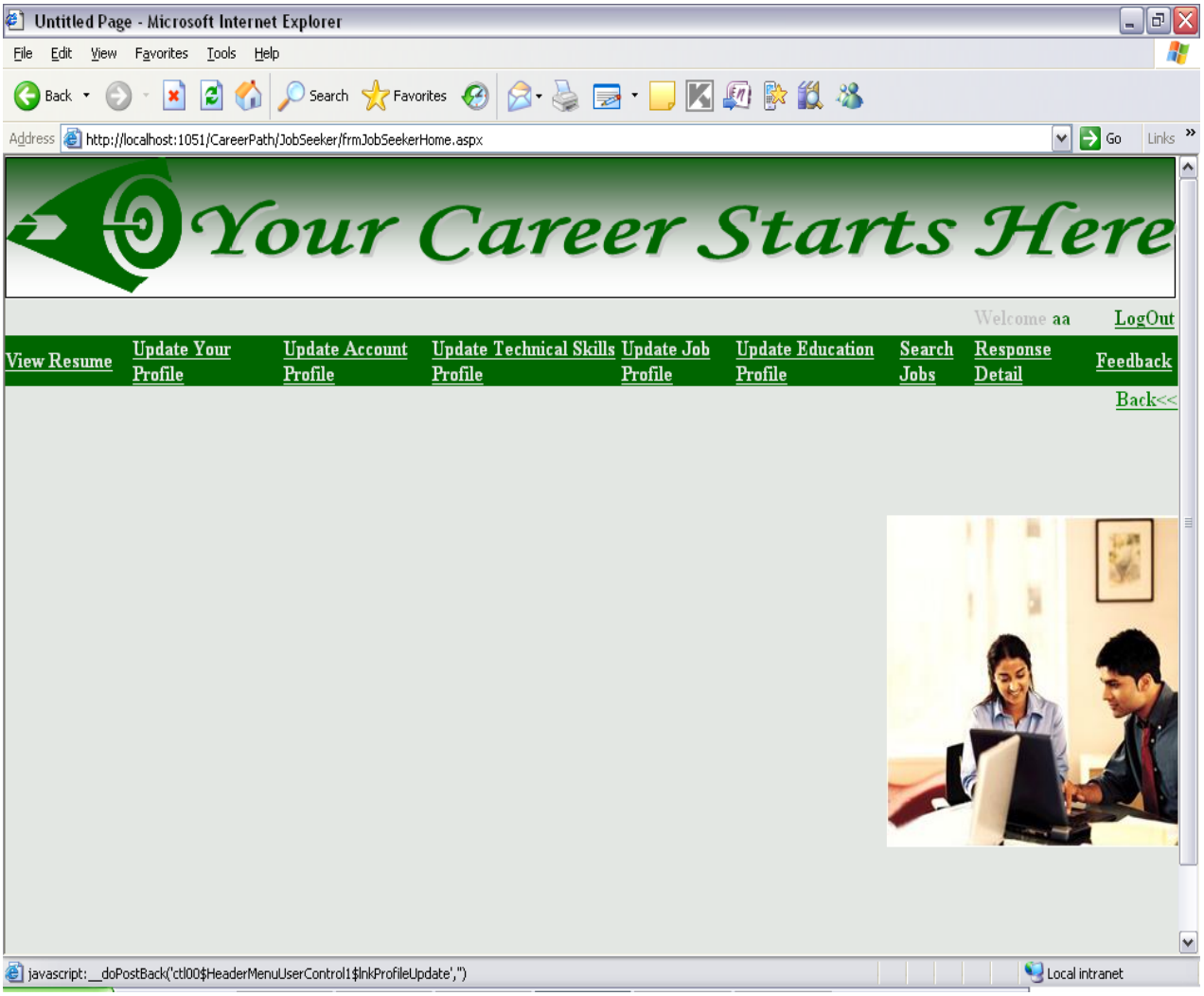
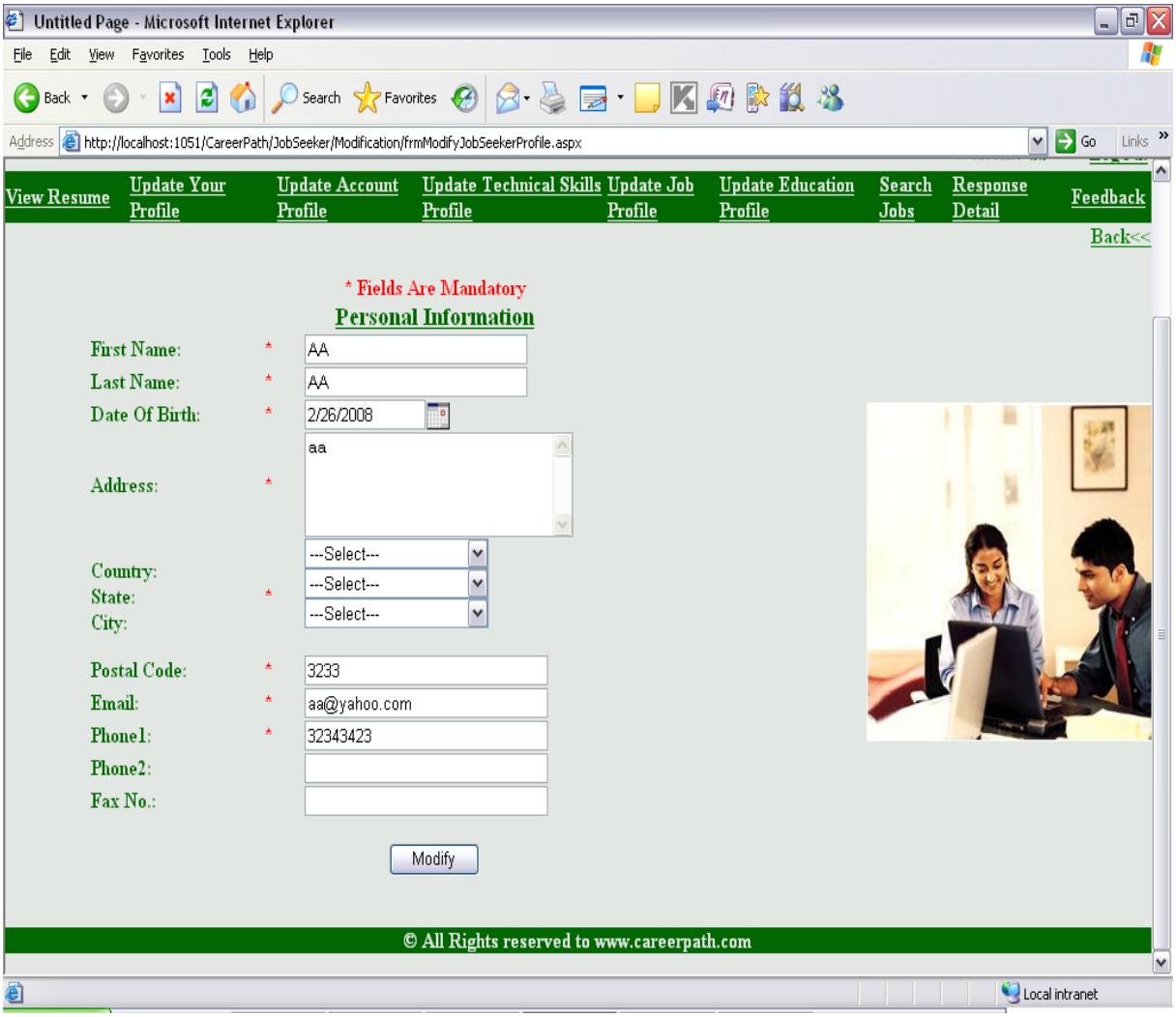

Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/JobSeeker/frmJobSeekerHome.aspx
Go Links
Your Career Starts Here
Welcome aa
LogOut
View Resume
Update Your Profile
Update Account Profile
Update Technical Skills Profile
Update Job Profile
Update Education Profile
Search Jobs
Response Detail
Feedback
Back<<
javascript:__doPostBack('ctl00$HeaderMenuUserControl1$lnkProfileUpdate','')
Local intranet

Fig 26


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/JobSeeker/Modification/frmModifyJobSeekerProfile.aspx
Go Links
View Resume
Update Your Profile
Update Account Profile
Update Technical Skills Profile
Update Job Profile
Update Education Profile
Search Jobs
Response Detail
Feedback
Back<<
* Fields Are Mandatory
Personal Information
First Name: * AA
Last Name: * AA
Date Of Birth: * 2/26/2008
Address: * aa
Country: ---Select---
State: * ---Select---
City: ---Select---
Postal Code: * 3233
Email: * aa@yahoo.com
Phone1: * 32343423
Phone2:
Fax No.:
Modify
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Local intranet

Fig 27

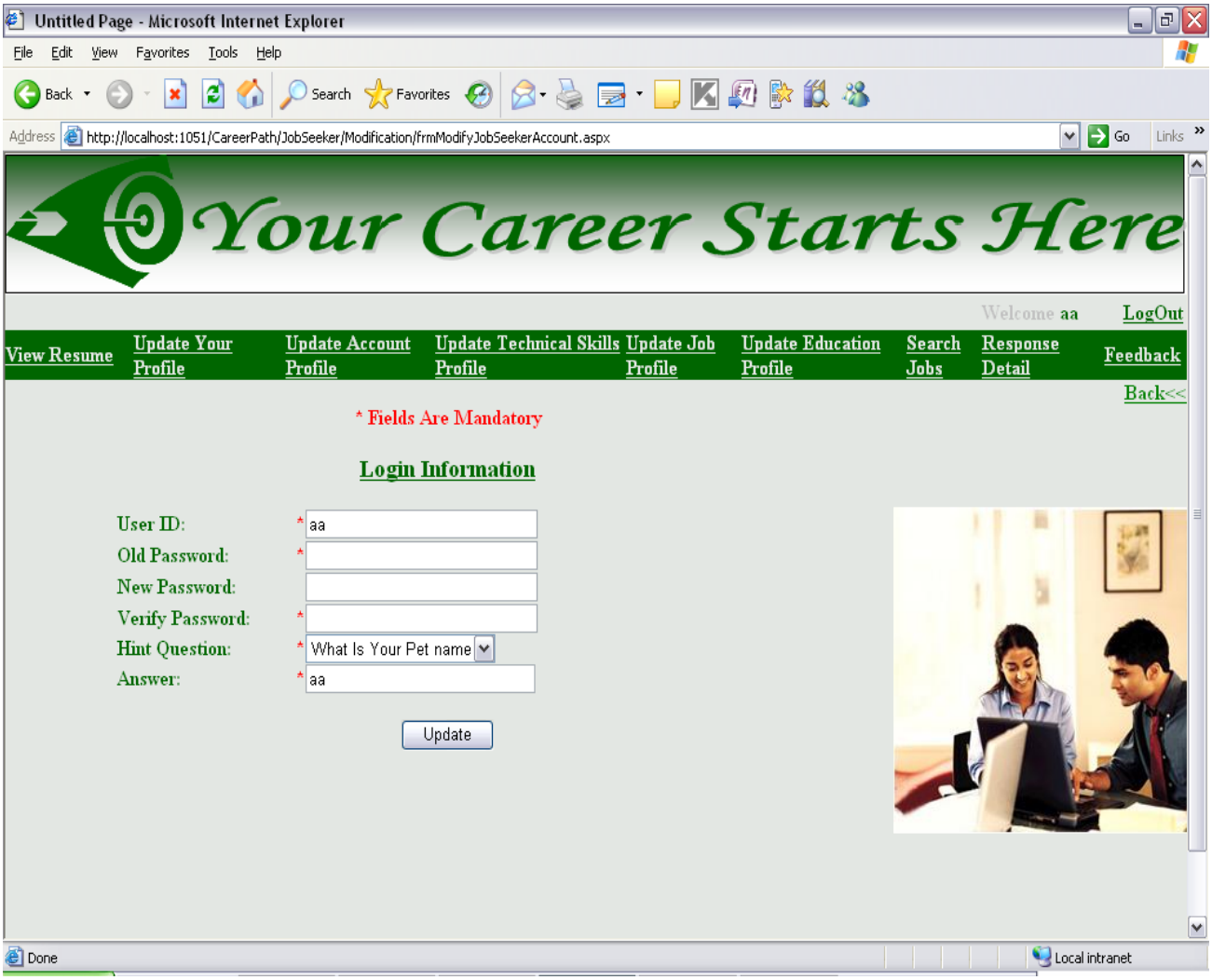
Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/JobSeeker/Modification/frmModifyJobSeekerAccount.aspx
Go Links
Your Career Starts Here
Welcome aa LogOut
View Resume Update Your Profile Update Account Profile Update Technical Skills Profile Update Job Profile Update Education Profile Search Jobs Response Detail Feedback
Back<<
* Fields Are Mandatory
Login Information
User ID: aa
Old Password:
New Password:
Verify Password:
Hint Question: What Is Your Pet name
Answer: aa
Update
Done
Local intranet

Fig 28

Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/frmRecruiterLogin.aspx
Go Links
Your Search Starts Here
Back>>
Write a résumé that stands out
monster
India's No 1 Jobsite
Recruiter Login
* Fields Are Mandatory
User Name: * aaa
Password: * ●●●
Sign Up
Forgot Password ? Click Here !
Register Me !
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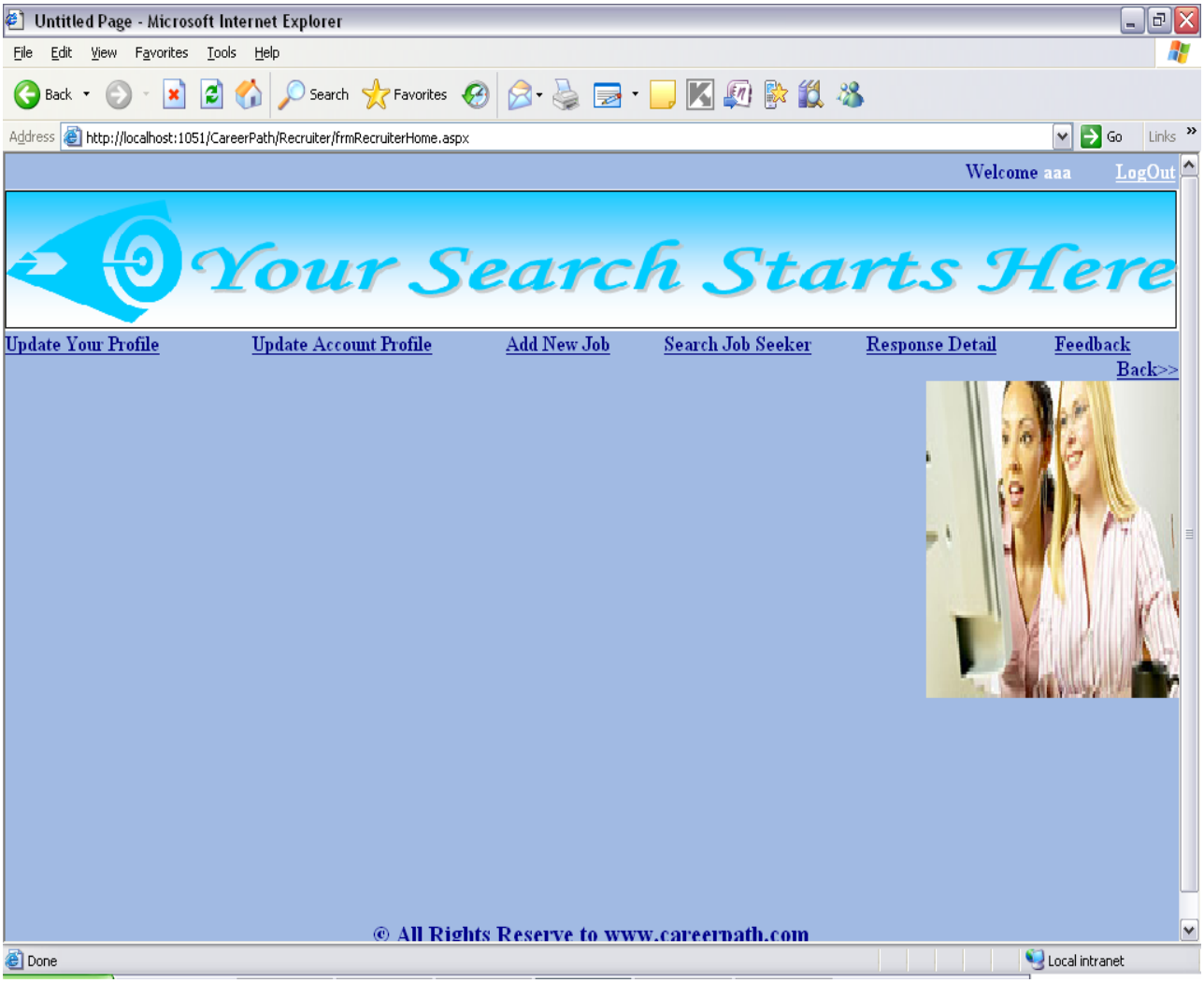
Local intranet

Fig 29


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1051/CareerPath/Recruiter/frmRecruiterHome.aspx
Go Links
Welcome aaa
LogOut
Your Search Starts Here
Update Your Profile
Update Account Profile
Add New Job
Search Job Seeker
Response Detail
Feedback
Back>>
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Done
Local intranet

Fig 30

Chapter 5

CONCLUSION

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in ASP.NET and VB.NET web based application and no some extent Windows Application and SQL Server, but also about all handling procedure related with **"PROJECT NAME".** It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

BENEFITS:

The project is identified by the merits of the system offered to the user. The merits of this project are as follows: -

- It's a web-enabled project.
- This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
- The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stages of any new creation, data entry or updation so that the user cannot enter the invalid data, which can create problems at later date.
- Sometimes the user finds in the later stages of using project that he needs to update some of the information that he entered earlier. There are options for him by which he can update the records. Moreover there is restriction for his

that he cannot change the primary data field. This keeps the validity of the data to longer extent.

- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can sat that the project is user friendly which is one of the primary concerns of any good project.
- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of information since data collection from information available on computer takes much less time then manual system.
- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency,

LIMITATIONS:

- The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
- Training for simple computer operations is necessary for the users working on the system.

Chapter 6

FUTURE WORK

- This System being web-based and an undertaking of Cyber Security Division, needs to be thoroughly tested to find out any security gaps.

- A console for the data centre may be made available to allow the personnel to monitor on the sites which were cleared for hosting during a particular period.

- Moreover, it is just a beginning; further the system may be utilized in various other types of auditing operation viz. Network auditing or similar process/workflow based applications...

Chapter 7

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- http://www.jobstreet.com.ph
- http://www.phil-job.net