WEBSITE FOR CONSTRUCTION

A Project Report

Submitted in partial fulfillment of the

Requirements for the award of the Degree of

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

By

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THANE,401101

MAHARASHTRA

2019-2020

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THANE-MAHARASHTRA-401101

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that the project entitled, **"Website for construction"**, is bonafied work of **Deepak Suryanarayan Sharma** bearing Seat. No. 22 submitted in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATION TECHNOLOGY from University of Mumbai.

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College Seal

Abstract

Construction Industry is one of the oldest industries of the world. Construction Activity is generally considered to be labour intensive industry. Even though there is tremendous amount of innovation and technological advancement in twenty first century but this industry has been in isolation from many developments. If construction industry or infrastructure industry is utilizing the advancement in science and technology in proper sense, then this industry can prosper and can lead to automation and less labour intense.

Most of construction contractors uses files and register to record and maintain useful data. Humans are not good in recording and remembering data it can be left to computers which are masters in doing so. Retrieving information or transaction is complex and hectic work if they are stored in files and registers. But the same can be done in seconds if computers are used. Register and files are also liable to physical damages and no backups can be taken easily like in computers. Human resource thus can be used to be utilize in a more effective way.

In this project I will undertake a case study of a traditional construction company that is not utilizing the information technology. Such construction firm lags behind and are not able to compete with other contractors in this field that are utilizing IT and other technology. I am planning to suggest and develop website for such traditional firm so that the outreach of such a construction firm increases and also accurate and proper monitoring of data is possible.

ACKNOWLEDGEMENT

This project could not have been what it is without help and guidance of respected teachers, friends and my family support. I would like to thanks each and every one who has helped me to complete this project.

First of all, I would like to thank GOD for providing me with the potential and right decision power on right time to make this project possible. The satisfactory completion of this project is not merely due to my efforts but also due to valuable guidance recommended by my internal guides and requisite infrastructure and facilities made available by the college.

I also express my sincere thanks to the staff of "REENA MEHTA DEGREE COLLEGE", my project guide **Prof. Prajakta** and HOD of BSc. IT **Prof Rinkle Solanki** and my Respected Principal **Dr. (Mrs.) Satinder Kaur Gujral** for their unstinted co-operation and support, which resulted in successful completion of the project.

DECLARATION

I hereby declare that the project entitled, **"WEBSITE FOR CONSTRUCTION"** done at Reena Mehta College, has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)** to be submitted as final semester project as part of our curriculum

Deepak Suryanarayan Sharma

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Chapter 1

PRELIMINARY INVESTIGATION

1.1 : SYNOPSIS

PROJECT NAME: Website for construction.

INRTODUCTION:

Website for construction is transforming traditional construction Firm named "National Enterprises" into a modern construction firm that is powered by IT and internet. Such construction firm lags behind and are not able to compete with other contractors in this field that are utilizing IT and other technology. I am planning to suggest and develop website for such traditional firm so that the outreach of such a construction firm increases and also accurate and proper monitoring of data is possible.

BENEFITS OF WEBSITE FOR CONSTRUCTION:

- Reach of the firm is increased.
- Customer or client can get detail about the contractor's prior works.
- Appointments can be booked online.
- Contractor can give approximate estimates rather fast.
- Saves time of both the contractor and the clients in traveling.

MODULES:

- REGISTERED AND UNREGISTERED USERS
    - HOME
    - ABOUT
    - SERVICES
    - GALLERY
    - CONTACT
    - JOBS
    - FEEDBACK
    - APPOINTMENT
    - USER LOGIN
    - USER REGISTRATION

- ADMINISTRATION
    - ADMIN LOG IN
    - POST JOBS
    - VIEW APPOINTMENT
    - REMOVE APPOINTMENT
    - REMOVE JOBS
    - VIEW FEEDBACK
    - REMOVE FEEDBACK
    - ADMIN LOGOUT

1.2 : ORGANIZATIONAL OVERVIEW

The Contractor is well known for its great customer service and also known for providing any information regarding budget and planning for the construction.

The Contractor is well known in the region because of the work and amazing offers provided to the clients.

The clients can visit the office to get any type of information regarding products and construction details via appointments.

1.3 : WORKING OF THE CURRENT SYSTEM

- System doesn't have software to keep records of customers, services, products. The records are stored in files and registers.
- The shop was working manually by maintaining registers and keeping records of each and every order, services provided to different customers and preparing bill for each customer according to expenditure.
- Due to lot of paper work the system was very prone to errors, since there was need to store and maintain information.
- To manually handle such a system was very difficult task.
- To overcome these problems software/website must be brought into action.
- Clients have to come to office without any appointments.
- If contractor requires worker of specific domain then contractor have to contact them manually.

1.4 LIMITATIONS OF THE CURRENT SYSTEM

- Unnecessary human power is wasted in recording which can be used for some productive work.
- Retrieving transaction is tedious and time consuming since recorded transactions are stored manually in files and registers.
- The entire information is not integrated together which can lead to improper judgments regarding the profits, status, etc.
- It becomes difficult to take back-up of information scattered across various files, registers.
- Redundancy of data occurs.
- As different registers are maintained for different records there is no integration within that data. Searching for information from various files can prove in-efficient.
- same information can be stored in different registers or files.
- It is also difficult to deal with large volume of data.
- The data or the details of previous customer are difficult to recover if lost once.
- The file processing environments do not allow needed data to be retrieved in better manner with safety.
- Required more time in calculating and generating reports.
- As the system is in manual there are lot many chances of human errors.
- These cause errors in calculating mechanism and maintaining customer and employee data in registers.
- Use of papers for storing valuable data information is not at all reliable.
- The storage space requirement is increased as information is stored in files and registers.

1.5 PROPOSED SYSTEM

- We have come up with a website solution to overcome with the limitation of the existing system.
- Thus we can keep track of large volume of data as well as details of previous customers.
- It enables to retrieve the information needed in a matter of few clicks.
- The proposed system is an undertaking to integrate the working of the business according to the customer needs.
- The system saves lots of human power as well as time can be saved by using the proposed system.
- The system is developed in order to manage several operations in the office such as pricing, brand, quotation, employee's information.

Main Objectives:

- Automate all processes that were carried out manually.
- Retrieving data instantly.
- Providing security and time saving of operations.
- Customers and Employees management.
- A registered user/client can make appointments directly through website.
- Contractor can upload the jobs as per the requirements.
- A registered user can apply for the jobs as per the requirements.
- Contractor can easily provide information about the various services, products, offers and objectives of organization.

1.6 ADVANTAGES OF PROPOSED SYSTEM

- The website gives information about all products and brands required in renovation and construction.
- The system can give the information about all type of services provided.
- User can apply for various jobs.
- Clients can make appointments.
- Security of data-Data are well protected for personal use.
- Minimized manual data entry.
- Data is in an organized manner.
- The website is user friendly and a person with basic computer knowledge can operate it.
- Sensitive information can be secured due to security and authentication feature.

1.7 TOOLS AND TECHONOLOGIES USED:

- CSS
- JSP
- HTML
- MySQL

Hyper Text Markup Language

Hypertext Markup Language (**HTML**) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects, such as interactive forms, may be embedded into the rendered page. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by *tags*, written using angle brackets.

Tags such as <img /> and <input /> introduce content into the page directly. Others such as ... surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.

HTML markup consists of several key components, including those called tags (and their attributes), character-based data types, character references and entity references. HTML tags most commonly come in pairs like <h1> and </h1>, although some represent empty elements and so are unpaired, for example <img>. The first tag in such a pair is the start tag, and the second is the end tag (they are also called opening tags and closing tags). Another important component is the HTML document type declaration, which triggers standards mode rendering.

HTML documents are required to start with a Document Type Declaration (informally, a "doctype"). In browsers, the doctype helps to define the rendering mode particularly whether to use quirks mode. The original purpose of the doctype was to enable parsing and validation of HTML documents by SGML tools based on the Document Type Definition (DTD). The DTD to which the DOCTYPE refers contains a machine-readable grammar specifying the permitted and prohibited content for a document conforming to such a DTD. Browsers, on the other hand, do not implement HTML as an application of SGML and by consequence do not read the DTD.

Cascading Style Sheets

Cascading Style Sheets (CSS) is a simple mechanism for adding style (e.g., fonts, colors, spacing) to Web documents. **Cascading Style Sheets** (**CSS**) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.

CSS is designed primarily to enable the separation of presentation and content, including aspects such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple HTML pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

Changes to the graphic design of a document (or hundreds of documents) can be applied quickly and easily, by editing a few lines in the CSS file they use, rather than by changing markup in the documents.

CSS facilitates publication of content in multiple presentation formats based on nominal parameters. Nominal parameters include explicit user preferences, different web browsers, the type of device being used to view the content (a desktop computer or mobile device), the geographic location of the user and many other variables.

When CSS is used effectively, in terms of inheritance and "cascading", a global style sheet can be used to affect and style elements site-wide. If the situation arises that the styling of the elements should be changed or adjusted, these changes can be made by editing rules in the global style sheet. Before CSS, this sort of maintenance was more difficult, expensive and time-consuming.

With a simple change of one line, a different style sheet can be used for the same page. This has advantages for accessibility, as well as providing the ability to tailor a page or site to different target devices. Furthermore, devices not able to understand the styling still display the content. Without CSS, web designers must typically lay out their pages with techniques such as HTML tables that hinder accessibility for vision-impaired users.

As the size of CSS resources used in a project increases, a development team often needs to decide on a common design methodology to keep them organized. The goals are ease of development, ease of collaboration during development and performance of the deployed stylesheets in the browser. Popular methodologies include OOCSS (object-oriented CSS), ACSS (atomic CSS), oCSS (organic Cascade Style Sheet), SMACSS (scalable and modular architecture for CSS), and BEM (block, element, modifier).

MySQL

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality.

MySQL is a central component of the LAMP open-source web application software stack (and other "AMP" stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python". Applications that use the MySQL database include: TYPO3, MODx, Joomla, WordPress, Simple Machines Forum, phpBB, MyBB, and Drupal. MySQL is also used in many high-profile, large-scale websites, including Google (though not for searches), Facebook, Twitter, Flickr, and YouTube.

MySQL is offered under two different editions: the open source MySQL Community Server and the proprietary Enterprise Server. MySQL Enterprise Server is differentiated by a series of proprietary extensions which install as server plugins, but otherwise shares the version numbering system and is built from the same code base.

Major features as available in MySQL:

- A broad subset of ANSI SQL 99, as well as extensions
- Cross-platform support
- Stored procedures, using a procedural language that closely adheres to SQL/PSM
- Triggers
- Cursors
- Updatable views
- Online Data Definition Language (DDL) when using the InnoDB Storage Engine.
- Information schema
- Performance Schema that collects and aggregates statistics about server execution and query performance for monitoring purposes.
- A set of SQL Mode options to control runtime behavior, including a strict mode to better adhere to SQL standards.
- X/Open XA distributed transaction processing (DTP) support; two phase commit as part of this, using the default InnoDB storage engine
- Transactions with savepoints when using the default InnoDB Storage Engine. The NDB Cluster Storage Engine also supports transactions.
- ACID compliance when using InnoDB and NDB Cluster Storage Engines
- SSL support
- Query caching
- Full-text indexing and searching
- Embedded database library
- Unicode support
- Partitioned tables with pruning of partitions in optimizer
- Shared-nothing clustering through MySQL Cluster

Javascript

JavaScript often abbreviated as **JS**, is a high-level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm. Alongside HTML and CSS, JavaScript is one of the three core technologies of World Wide Web content engineering. It is used to make webpages interactive and provide online programs, including video games. The majority of websites employ it, and all modern web browsers support it without the need for plug-ins by means of a built-in JavaScript engine. Each of the many JavaScript engines represent a different implementation of JavaScript, all based on the ECMAScript specification, with some engines not supporting the spec fully, and with many engines supporting additional features beyond ECMA.

As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative (including object-oriented and prototype-based) programming styles. It has an API for working with text, arrays, dates, regular expressions, and basic manipulation of the DOM, but the language itself does not include any I/O, such as networking, storage, or graphics facilities, relying for these upon the host environment in which it is embedded.

Java Server Pages(JSP)

JavaServer Pages (**JSP**) is a technology that helps software developers create dynamically generated web pages based on HTML, XML, or other document types. Released in 1999 by Sun Microsystems, JSP is similar to PHP and ASP, but it uses the Java programming language.

To deploy and run JavaServer Pages, a compatible web server with a servlet container, such as Apache Tomcat or Jetty, is required.

JSP pages use several delimiters for scripting functions. The most basic is **<% ... %>**, which encloses a JSP scriptlet. A scriptlet is a fragment of Java code that is run when the user requests the page. Other common delimiters include **<%= ... %>** for expressions, where the scriptlet and delimiters are replaced with the result of evaluating the expression, and directives, denoted with **<%@ ... %>**.

Java code is not required to be complete or self-contained within a single scriptlet block. It can straddle markup content, provided that the page as a whole is syntactically correct. For example, any Java if/for/while blocks opened in one scriptlet must be correctly closed in a later scriptlet for the page to successfully compile.

Content that falls inside a split block of Java code (spanning multiple scriptlets) is subject to that code. Content inside an if block will only appear in the output when the if condition evaluates to true. Likewise, content inside a loop construct may appear multiple times in the output, depending upon how many times the loop body runs.

1.8 Feasibility Study:

A feasibility study is an analysis of the viability of an idea.

We have analysed the feasibility of the system in terms of following spans:

1. Technical Feasibility
2. Operational Feasibility
3. Economic Feasibility
4. Scheduled Feasibility

❖ TECHNICAL FEASIBILITY

The aim of the Technical Feasibility is to support the cost of a company to undertake technical study into: -

The system is very much feasible with it's technical aspect as there is not much computing resource required to build the system. The system is accessible on all the machines operating on Windows XP/Windows 7/Windows 8.
Making changes in the system regarding updating product details can be easily done as the admin will have complete understanding of the system's content and the tools which are used for developing the system.

❖ OPERATIONAL FEASIBILITY:

Operational feasibility is mainly concerned with issues like whether the system will be used itf it is developed and implemented.
ease to use the system will help to increase the operational importance of the system, as there will be not much computing expertise required to use the system and a person with minimum computing knowledge can use the system very effectively.
The proposed system will really benefit the organization as the system could be maintained by the admin itself and there will not be requirement for any additional staff for maintaining the system.
The overall response of the system will also increase as there will be more number of users affiliated with the system in the near future.
The system will affect the customers in a considerable way as they can get the products/services they are looking for in an easy to access manner.

❖ ECONOMIC FEASIBILITY:

For any system if the expected benefits equal or exceed the expected costs, the system can be judged to be economically feasible.
The proposed system can be developed at a minimum cost and resource. The system can assure a good beneficial cost to the organization.
The savings that would arise from the beneficial cost of the system can be used to improve the system's performance in future.

Chapter 2

SYSTEM ANALYSIS

2.1 EVENT TABLE

Event table definitions:

Event table: Table that lists events in rows and key pieces of information about each event in columns.

Event: An event occurs at a specific time and place, can be described and should be remembered by the system.

Trigger: An occurrence that tells the system that an event has occurred, either arrival of data needing processing or of a point in time.

Source: An external agent or an actor that supplies data to the system.

Activity: Behaviour that the system performs when an event occurs.

Response: An output produced by the system that goes to the destination.

Destination: An external entity that receives data from the system.

Description: Events are the transactions. Events are the cause of the transactions. Event will generate transactions. While developing the lists of events the analyst should note the additional information about the events for later use. The list of events with trigger, source, activity, response(s) and destination(s) for each event, can be placed in an event table to keep track of them for later use. Event Table is a convenient way to record information about the requirements for information.

ADMIN EVENT TABLE

Event	**Source**	**Trigger**	**Activity**	**Destination**
Admin Logs in	Admin	Admin Login	Confirmed as Admin	Admin
Admin Views Appointments	Admin	Appointment	viewed	Admin
Delete users Appointments	Admin	Appointment	Appointment removed	Admin
View Jobs applications	Admin	Jobs Applied	viewed	Admin
Delete user Applications	Admin	Jobs Applied	Application removed	Admin
View feedbacks from users	Admin	feedbacks	viewed	Admin
Delete feedbacks	Admin	feedbacks	Feedbacks removed	Admin
Add Jobs	Admin	Upload Jobs	Adds Job	user
Delete Uploaded Jobs	Admin	Uploaded Jobs	Removed job	Admin

VISITORS USERS EVENT TABLE

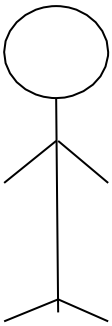
Event	**Source**	**Trigger**	**Activity**	**Destination**
Visitor Register	Visitor	Register	Display register page	Visitor
Visitor visits the homepage	Visitor	Home	Display homepage	Visitor
Visitor visits the services	Visitor	Services	Display Service page	Visitor
Visitor views Gallery	Visitor	Gallery	Display Gallery page	Visitor
Visitor views products	Visitor	products	Display products page	Visitor
Visitor gives feedback	Visitor	feedback	feedback submitted	Visitor

REGISTERED USERS

Event	**Source**	**Trigger**	**Activity**	**Destination**
User logs in	User	login	Confirmed as user	User
User visits the homepage	User	Home	Display homepage	User
Users visits the services	User	Services	Display Service page	User
Users views Gallery	User	Gallery	Display Gallery page	User
Users views products	User	products	Display products page	User
Users gives feedback	User	feedback	feedback given successfully	admin
User apply for job	User	career	Applied successfully	admin
Visitor applies for appointment	user	appointment	appointment booked successfully	admin

2.2 USE CASE DIAGRAM

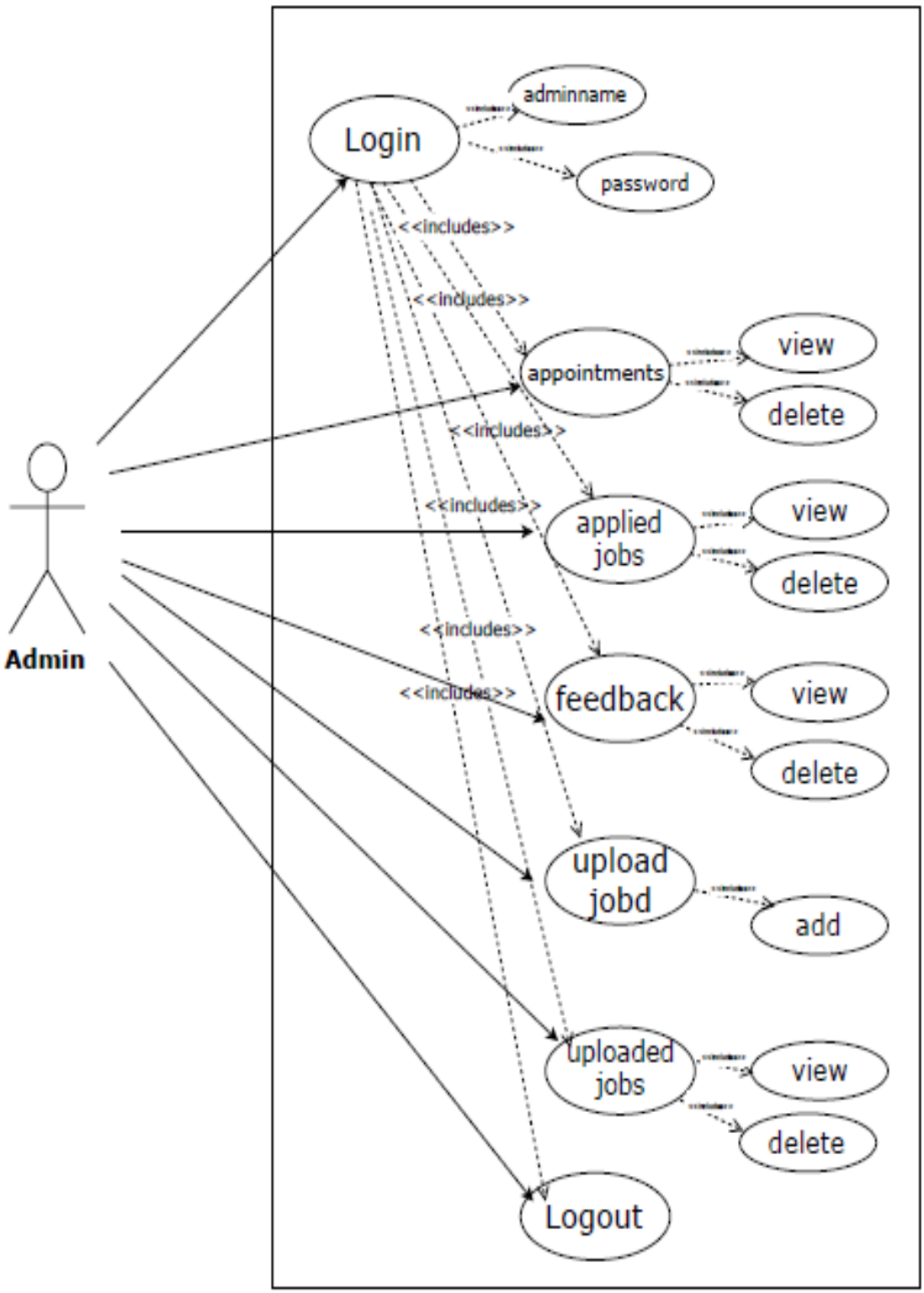
- A use case is a set of scenarios that describing an interaction between a user and a system.
- A use case diagram displays the relationship among actors and use cases.
- The two main components of a use case diagram are use cases and actors.



ACTOR

USECASE

- An actor is represents a user or another system that will interact with the system we are modeling.
- A use case is an external view of the system that represents some action the user might perform in order to complete a task.


Admin
Login
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appointments
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applied jobs
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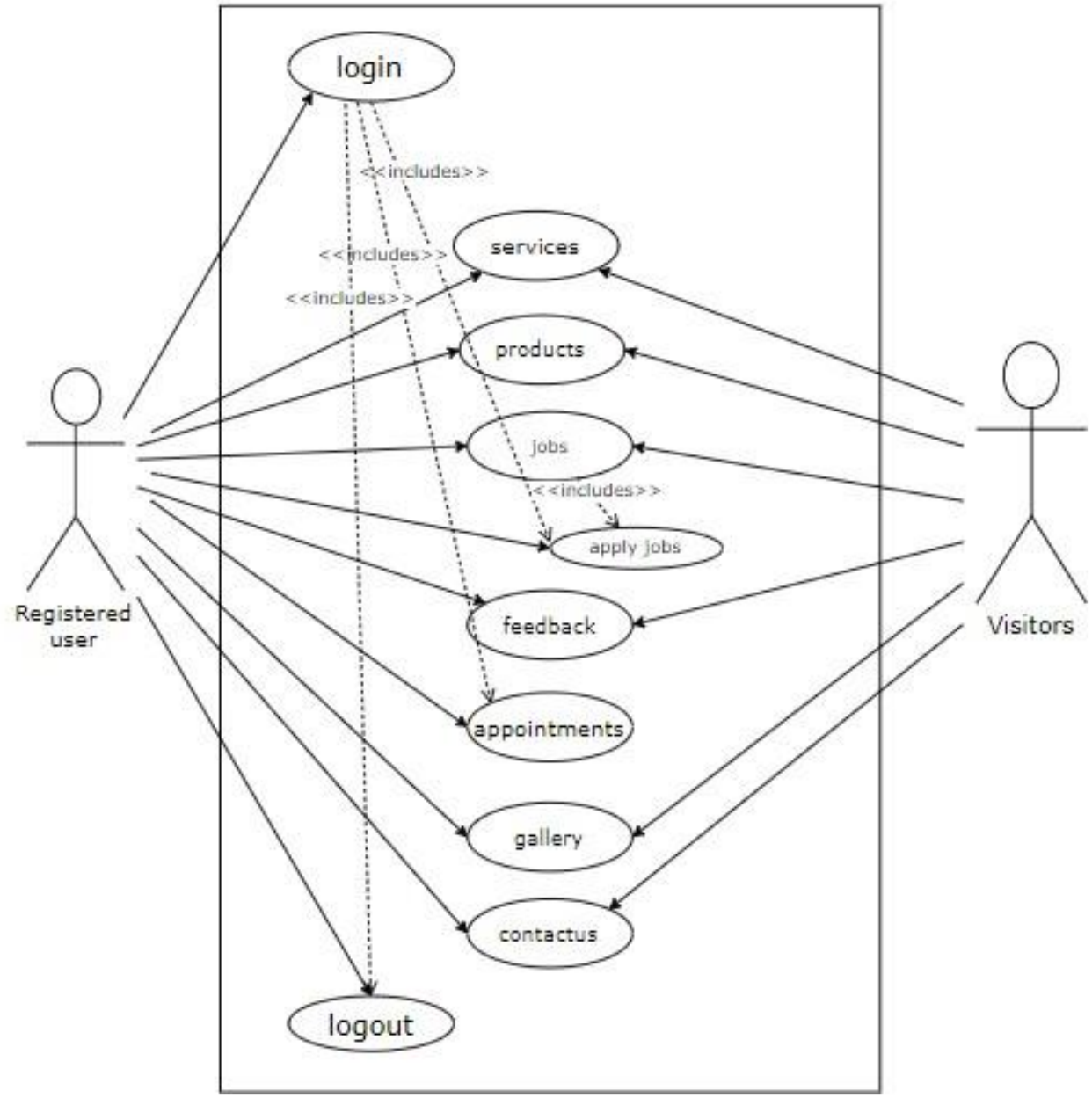
delete
Logout


login
<<includes>>
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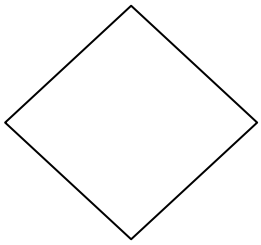
services
products
jobs
<<includes>>
apply jobs
feedback
appointments
gallery
contactus
logout
Registered user
Visitors

2.3 ENTITY RELATIONSHIP DIAGRAM (ERD)

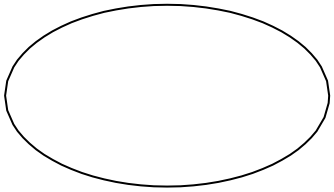
- Traditional approach to system development, places a great deal of emphasis on data storage requirements for the new system.
- Data storage requirements include the data entities, their attributes and the relationship among the data entities. The model used to define the relationship is known as Entity Relationship Diagram.
- Entity Relationship Diagrams are a major data-modelling tool and will help organize the data in your project into entities and define the relationships between the entities. This process has proved to enable the analyst to produce a good database structure so that the data can be stored and retrieved in a most efficient manner.
- **ERD** can be produced either in Structured Analysis or Information Engineering Notation.

Some of the notations used in ERD are as follows:

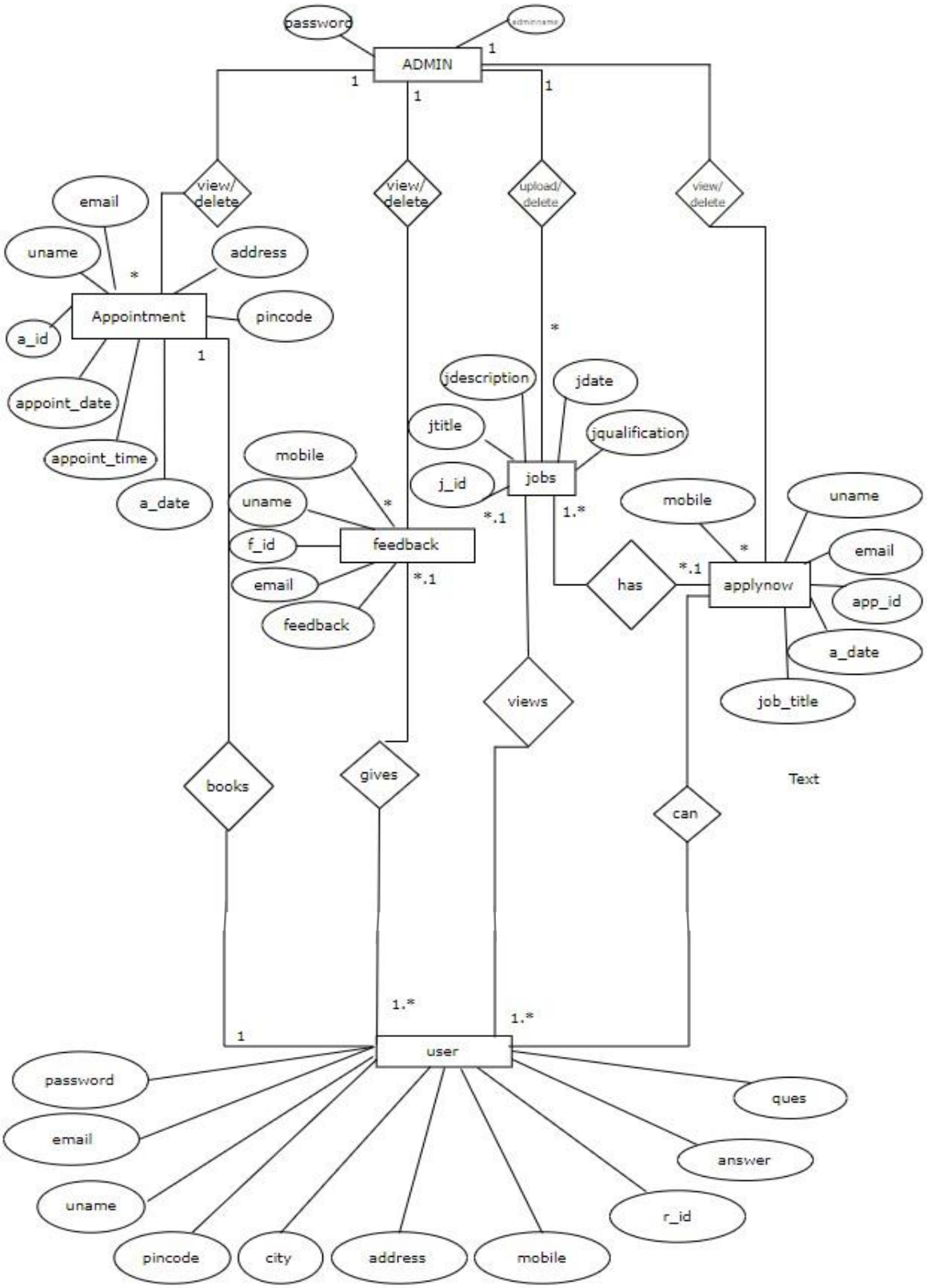
Entity



Relationship



Attributes


password
adminname
ADMIN
1
1
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view/ delete
view/ delete
upload/ delete
view/ delete
email
uname
address
*
Appointment
pincode
a_id
1
appoint_date
appoint_time
a_date
jdescription
jdate
jtitle
jqualification
mobile
uname
*
feedback
f_id
email
feedback
*.1
j_id
jobs
*.1
1.*
mobile
uname
email
app_id
a_date
job_title
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applynow
has
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1.*
1.*
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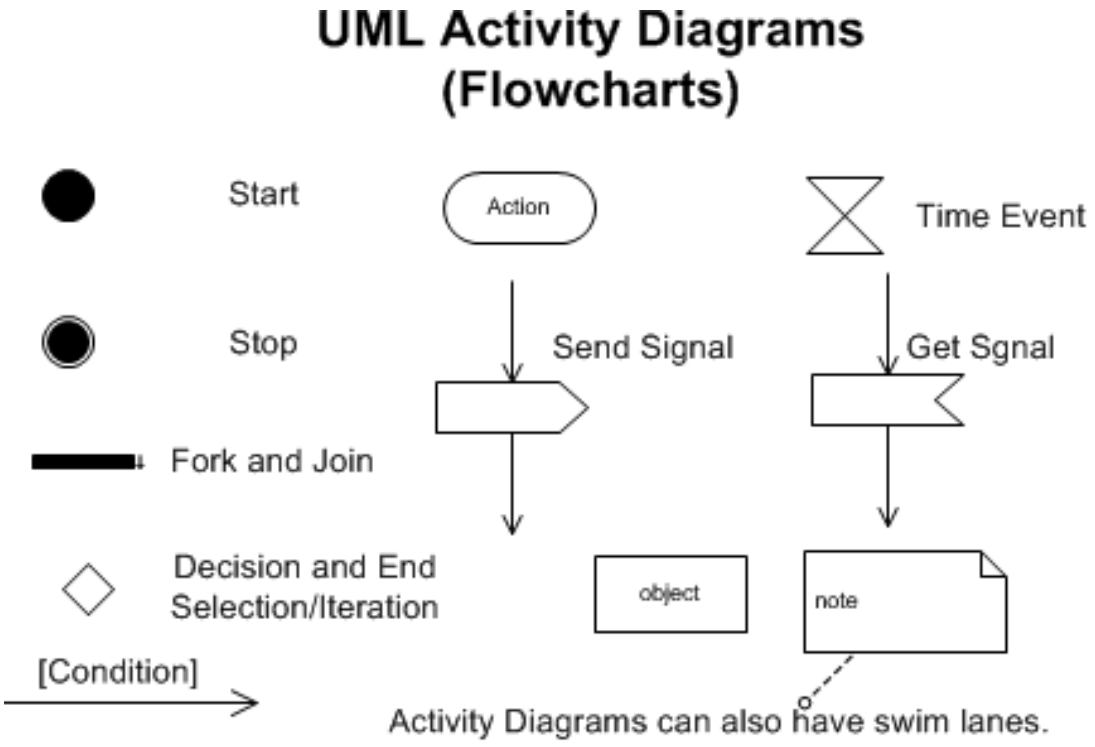
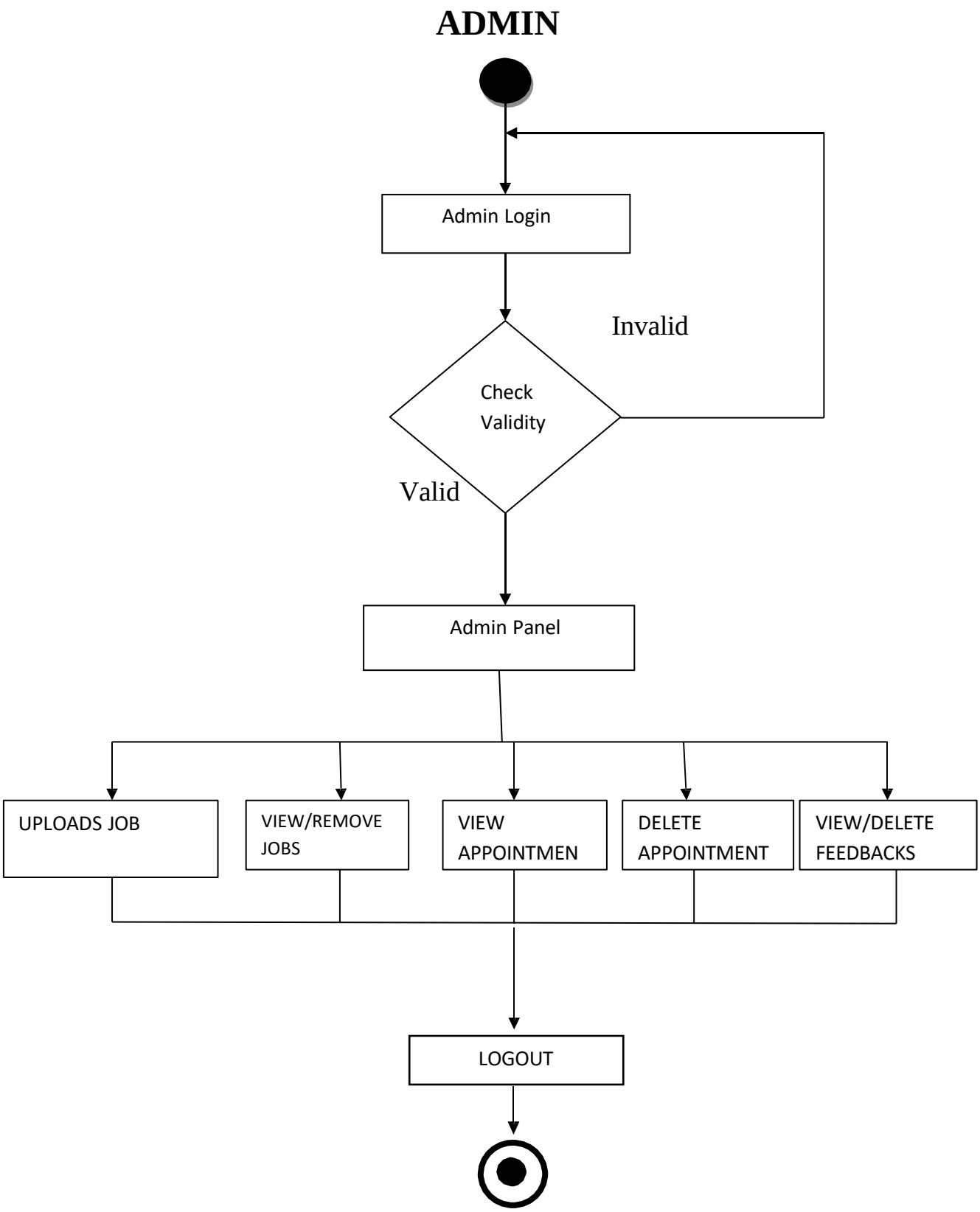
user
password
email
uname
pincode
city
address
mobile
ques
answer
r_id

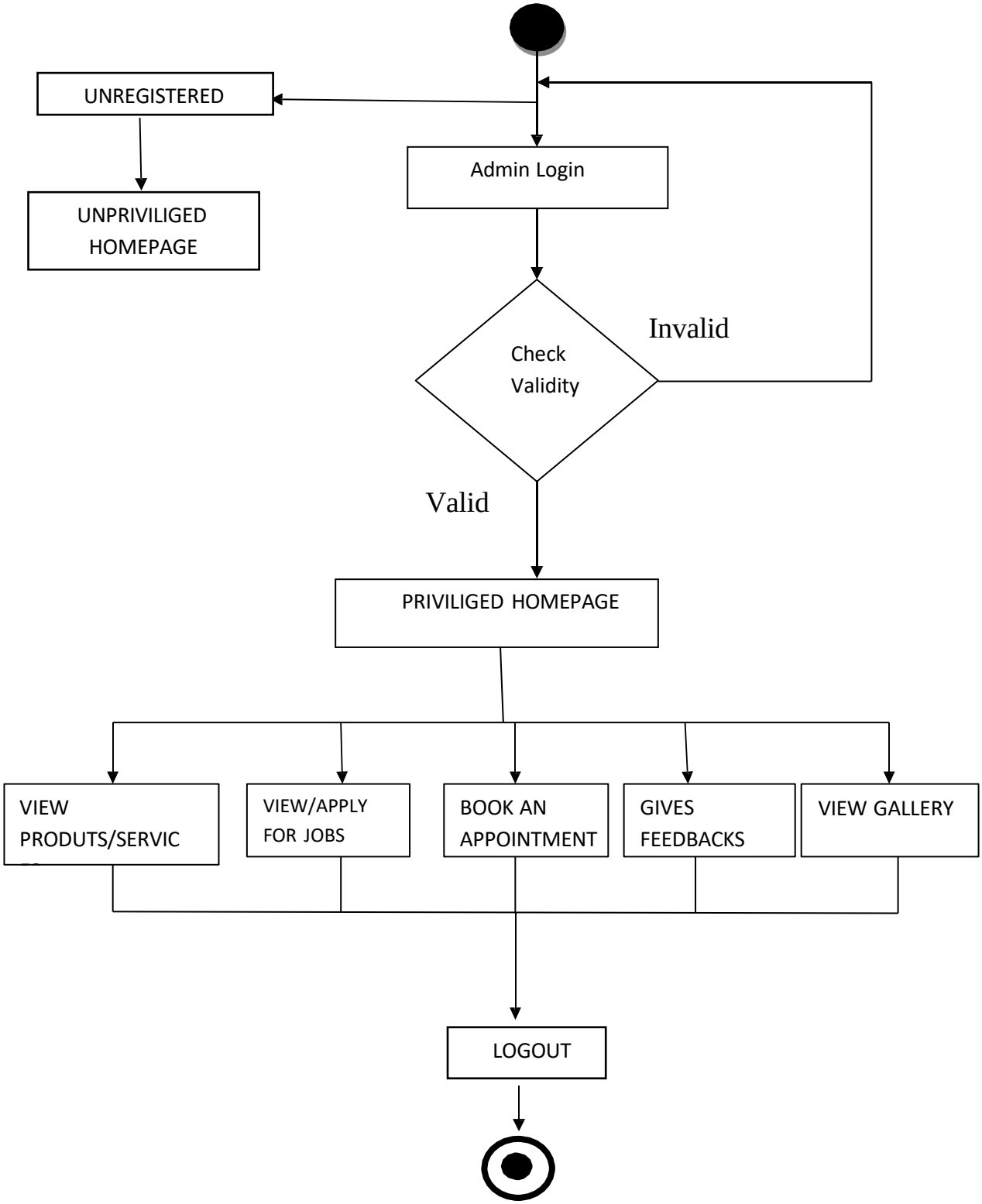
2.4 ACTIVITY DIAGRAM

- Activity diagram is another important diagram in UML to describe dynamic aspects of the system.
- Activity diagram is basically a flow chart to represent the flow form one activity to another activity. The activity can be described as an operation of the system.
- So the control flow is drawn from one operation to another. This flow can be sequential, branched or concurrent. Activity diagrams deals with all type of flow control by using different elements like fork, join etc.



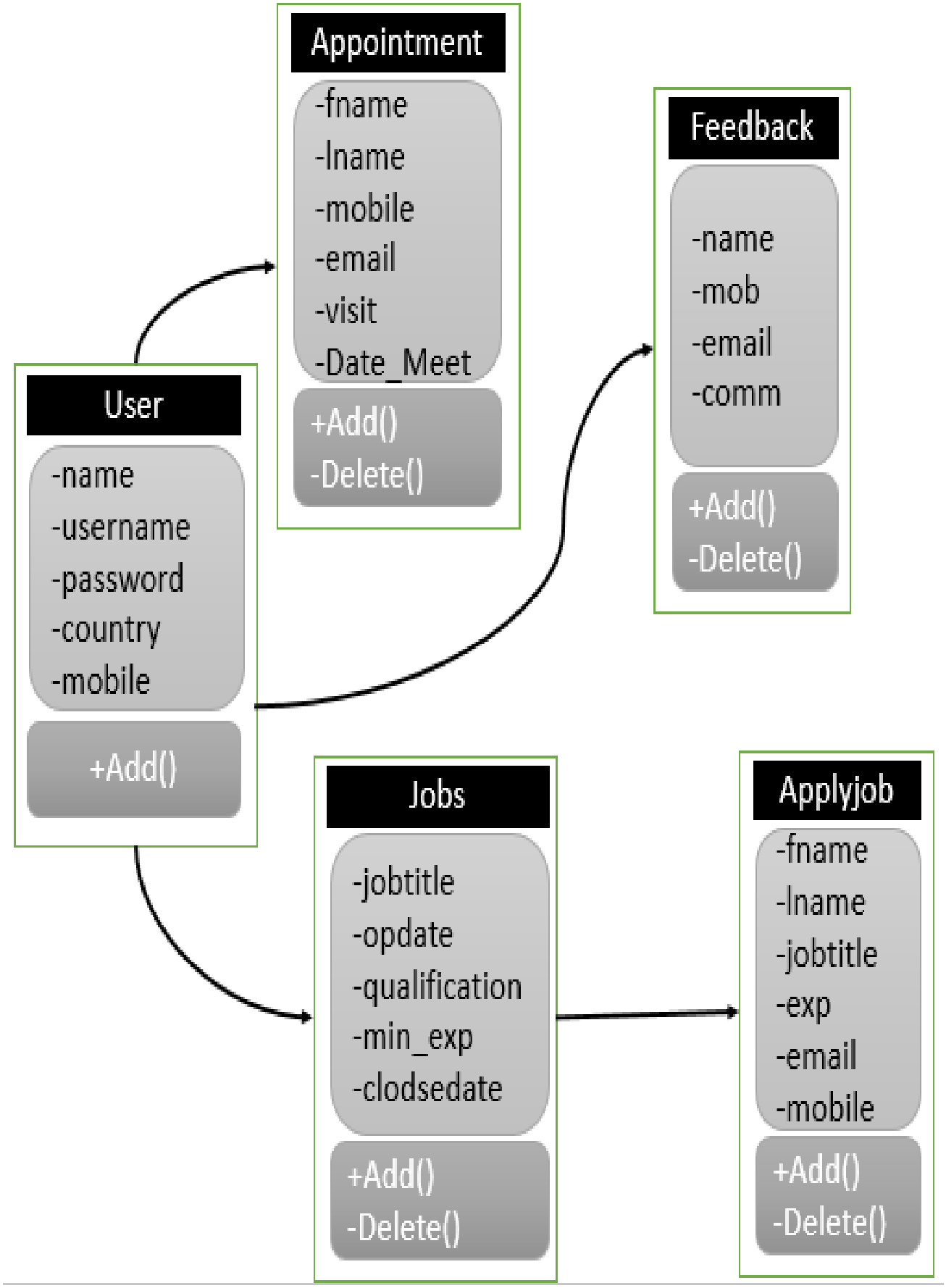

ADMIN
Admin Login
Invalid
Check Validity
Valid
Admin Panel
UPLOADS JOB
VIEW/REMOVE JOBS
VIEW APPOINTMEN
DELETE APPOINTMENT
VIEW/DELETE FEEDBACKS
LOGOUT

USER


UNREGISTERED
UNPRIVILIGED HOMEPAGE
Admin Login
Check Validity
Invalid
Valid
PRIVILIGED HOMEPAGE
VIEW PRODUTS/SERVIC
VIEW/APPLY FOR JOBS
BOOK AN APPOINTMENT
GIVES FEEDBACKS
VIEW GALLERY
LOGOUT

2.5 CLASS DIAGRAM

- Class diagrams are widely used to describe the types of objects in a system and their relationships.
- Class diagrams model class structure and contents using design elements such as classes, packages and objects.
- **CLASS:** A **class** is a system entity that models a real-world object.
- **ATTRIBUTES:** A class is made up of **attributes** which define the information that each class knows about itself
- **OPERATIONS:** These are the processes that a class can carry out.

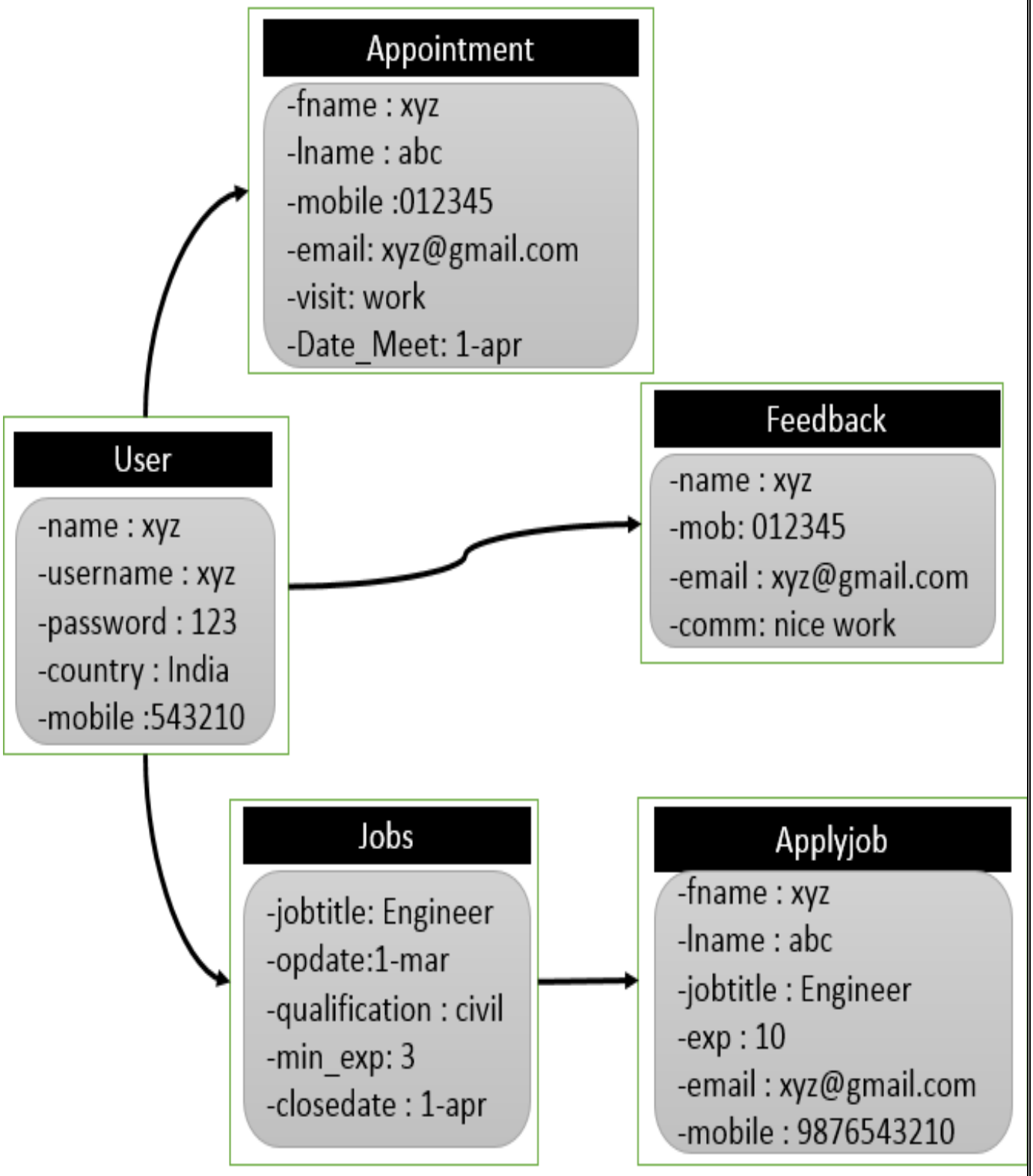

Appointment
-fname
-lname
-mobile
-email
-visit
-Date_Meet
+Add()
-Delete()
Feedback
-name
-mob
-email
-comm
+Add()
-Delete()
User
-name
-username
-password
-country
-mobile
+Add()
Jobs
-jobtitle
-opdate
-qualification
-min_exp
-clodsedate
+Add()
-Delete()
Applyjob
-fname
-lname
-jobtitle
-exp
-email
-mobile
+Add()
-Delete()

a. **OBJECT DIAGRAM**

i. Object diagrams also represent the static view of a system but this static view is a snapshot of the system at a particular moment.

ii. But an object diagram represents an instance at a particular moment.

iii. The object diagram is closer to the actual system behavior.


Appointment
-fname : xyz
-lname : abc
-mobile :012345
-email: xyz@gmail.com
-visit: work
-Date_Meet: 1-apr
User
-name : xyz
-username : xyz
-password : 123
-country : India
-mobile :543210
Feedback
-name : xyz
-mob: 012345
-email : xyz@gmail.com
-comm: nice work
Jobs
-jobtitle: Engineer
-opdate:1-mar
-qualification : civil
-min_exp: 3
-closedate : 1-apr
Applyjob
-fname : xyz
-lname : abc
-jobtitle : Engineer
-exp : 10
-email : xyz@gmail.com
-mobile : 9876543210

Chapter 3

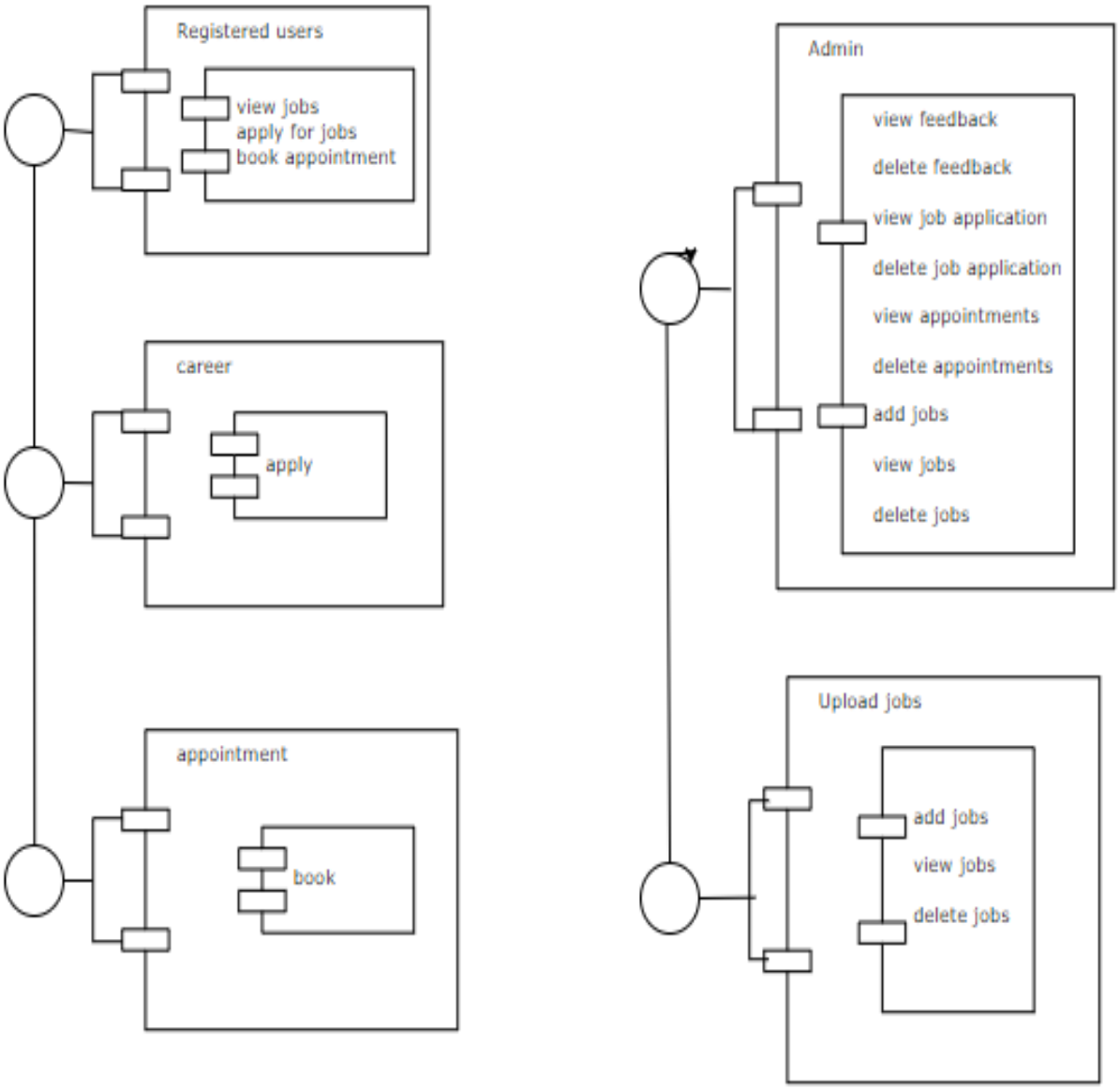
SYSTEM DESIGN

3.1 COMPONENT DIAGRAM

- A **component diagram** depicts how components are wired together to form larger components and or software system.

- Components are wired together by using an *assembly connector* to connect the required interface of one component with the provided interface of another component.

- An *assembly connector* is a "connector between two components that defines that one component provides the services that another component requires.

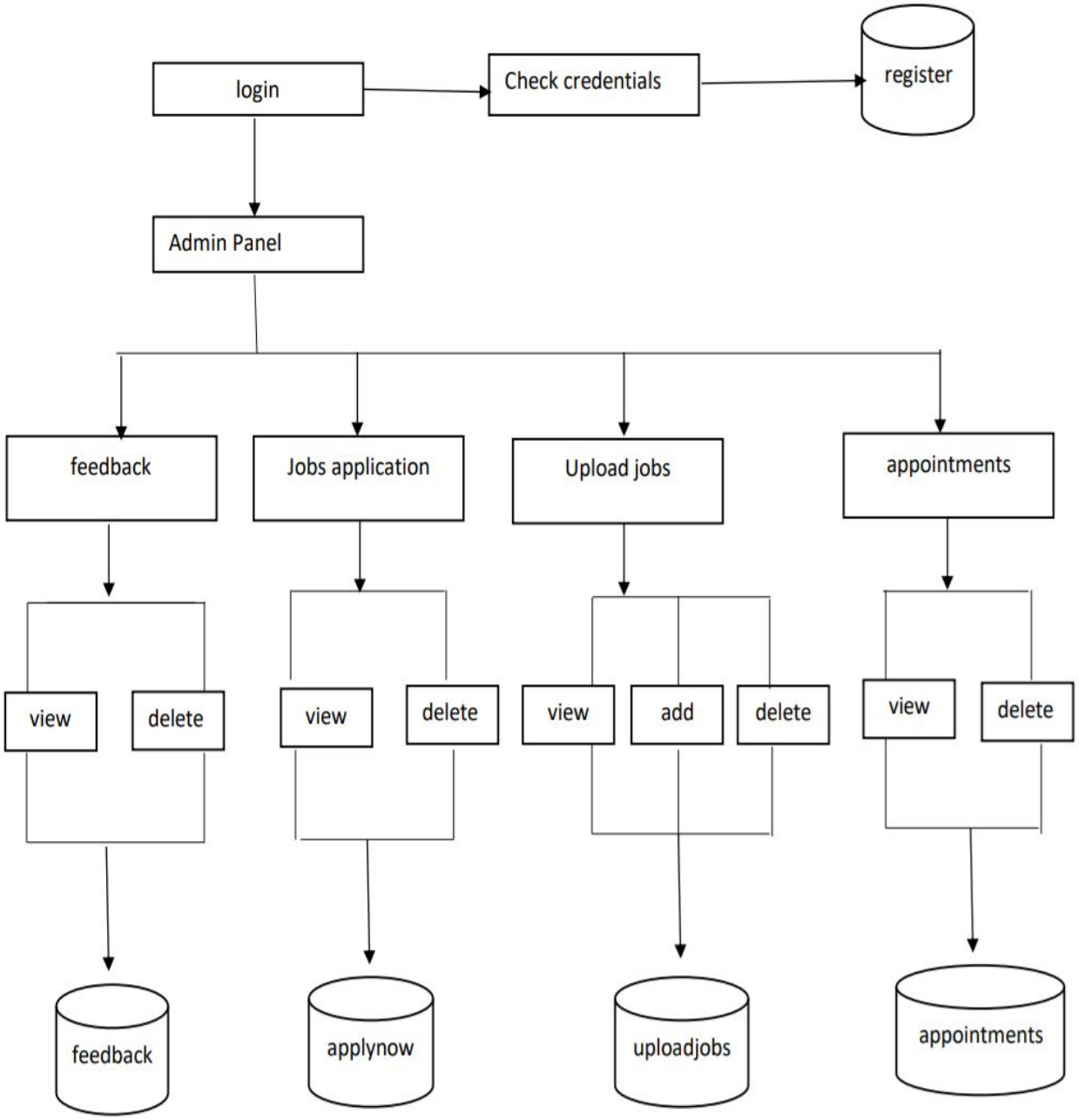

Registered users
view jobs
apply for jobs
book appointment
career
apply
appointment
book
Admin
view feedback
delete feedback
view job application
delete job application
view appointments
delete appointments
add jobs
view jobs
delete jobs
Upload jobs
add jobs
view jobs
delete jobs

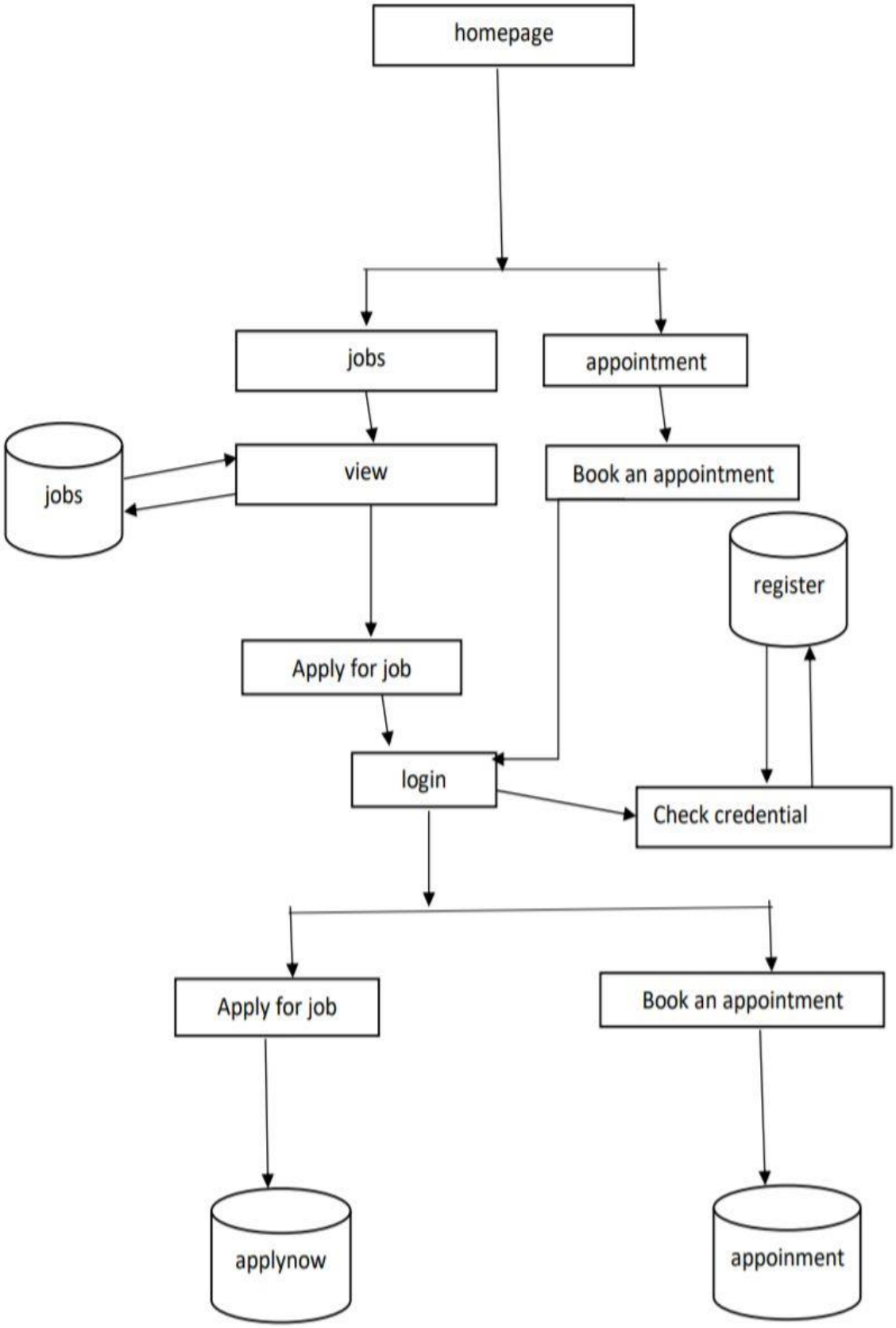
3.2 PACKAGE DIAGRAM

- A **package diagram** in the Unified Modelling Language depicts the dependencies between the packages that make up a model.
- In addition to the standard UML Dependency relationship, there are two special types of dependencies defined between packages:
    - package import
    - package merge
- A *package import* is "a relationship between an importing namespace and a package, indicating that the importing namespace adds the names of the members of the package to its own namespace."
- By default, an unlabelled dependency between two packages is interpreted as a package import relationship. In this relationship, elements within the target package will be imported in source package.
- A *package merge* is "a directed relationship between two packagesthat indicates that the contents of the two packages are to be combined. It is very similar to Generalization in the sense that the source element conceptually adds the characteristics of the target element to its own characteristics resulting in an element that combines the characteristics of both"
- In this relationship, if an element exists within both the source package and the target package then the source element's definition will be expanded to include the target element's definition.

3.3 SYSTEM FLOW CHART

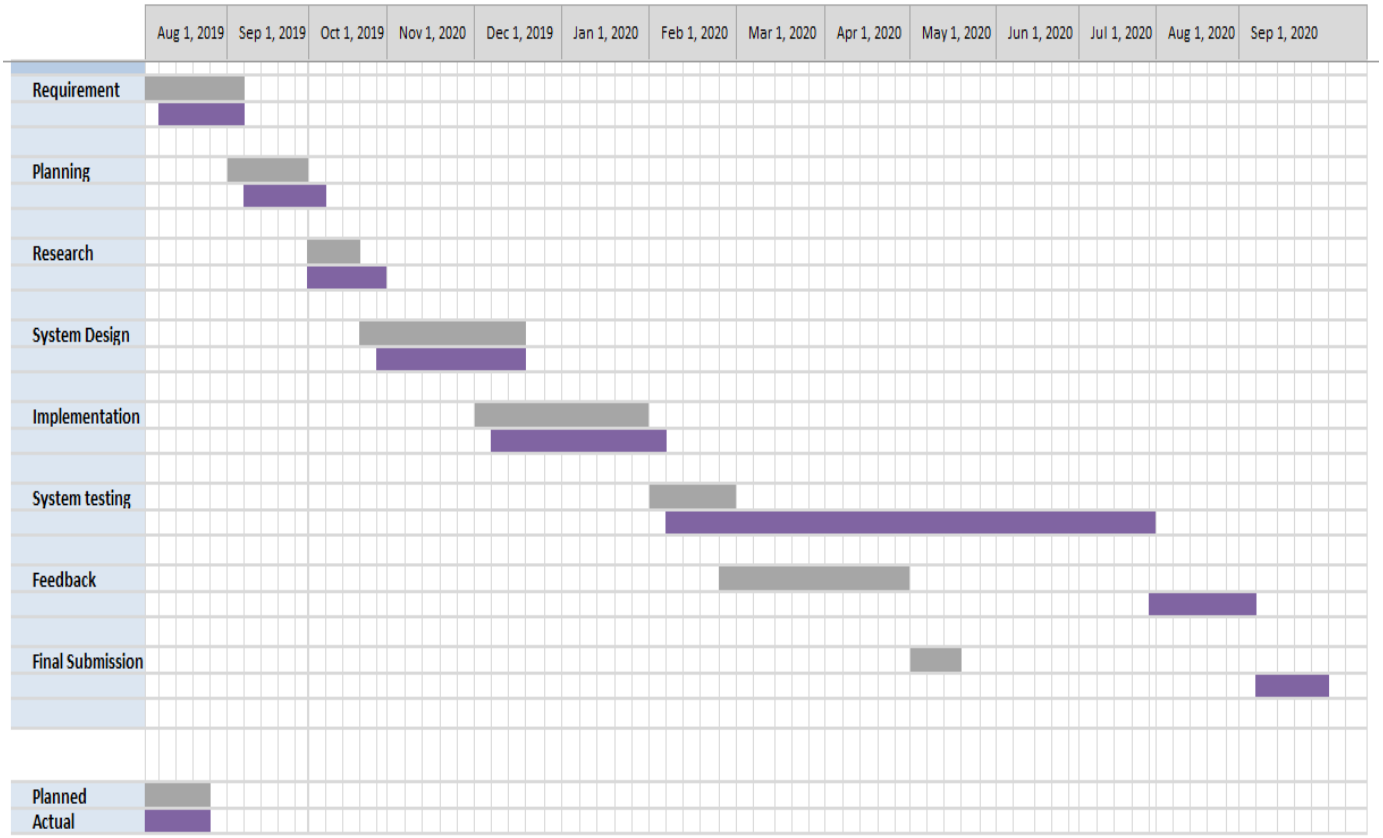
- A flowchart is a type of diagram that represents an algorithm or process, showing the steps as boxes of various kinds, and their order by connecting them with arrows.
- This diagrammatic representation illustrates a solution to a given problem.
- Process operations are represented in these boxes, and arrows; rather, they are implied by the sequencing of operations.
- Flowcharts are used in analysing, designing, documenting or managing a process or program in various fields.
- Flowcharts are used in designing and documenting complex processes or programs.
- Like other types of diagrams, they help visualize what is going on and thereby help the viewer to understand a process, and perhaps also find flaws, bottlenecks, and other less-obvious features within it.
- There are many different types of flowcharts, and each type has its own repertoire of boxes and notational conventions.
- The two most common types of boxes in a flowchart are:
    - a processing step, usually called *activity*, and denoted as a rectangular box
    - A decision, usually denoted as a diamond.


login
Check credentials
register
Admin Panel
feedback
Jobs application
Upload jobs
appointments
view
delete
view
delete
view
add
delete
view
delete
feedback
applynow
uploadjobs
appointments


homepage
jobs
appointment
jobs
view
Book an appointment
register
Apply for job
login
Check credential
Apply for job
Book an appointment
applynow
appoinment

3.4 GANTT CHARTS

- A Gantt chart, commonly used in project management, is one of the most popular and useful ways of showing activities (tasks or events) displayed against time.
- On the left of the chart is a list of the activities and along the top is a suitable time scale.
- Each activity is represented by a bar; the position and length of the bar reflects the start date, duration and end date of the activity.
- This allows you to see at a glance.



Chapter 4

SYSTEM CODING

4.1 SITE MAP

- **HOMEPAGE**
- **ABOUT**
- **SERVICES**
- **GALLERY**
- **CONTACT**
- **ADMIN SECTION**
- **USER SECTION**

ADMIN SECTION

- **ADMIN LOGIN**
- **POST JOB**
- **VIEW APPOINTMENTS**
- **REMOVE APPOINTMENTS**
- **VIEW JOBS**
- **REMOVE JOBS**
- **VIEW FEEDBACKS**
- **REMOVE FEEDBACKS**
- **ADMIN LOGOUT**

USER SECTION

- **USER LOGIN**
- **VIEW JOB**
- **APPLY JOBS**
- **BOOK APPOINTMENTS**
- **SUBMIT FEEDBACKS**
- **VIEW GALLERY**
- **USER LOGOUT**

4.2 : DATABASE TABLES

1.register table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	name	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
2	username	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
3	password	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
4	country	varchar(50)	latin1_swedish_ci		No	*None*			Change Drop More
5	mobile	varchar(20)	latin1_swedish_ci		No	*None*			Change Drop More

2.postjob table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	jobtitle	varchar(50)	latin1_swedish_ci		No	*None*			Change Drop More
2	opdate	varchar(50)	latin1_swedish_ci		No	*None*			Change Drop More
3	qualification	varchar(50)	latin1_swedish_ci		No	*None*			Change Drop More
4	min_exp	int(11)			No	*None*			Change Drop More
5	closedate	varchar(50)	latin1_swedish_ci		No	*None*			Change Drop More

3.applyjob table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	fname	varchar(30)	latin1_swedish_ci		No	None			Change Drop More
2	lname	varchar(30)	latin1_swedish_ci		No	None			Change Drop More
3	jobtitle	varchar(40)	latin1_swedish_ci		No	None			Change Drop More
4	exp	int(11)			No	None			Change Drop More
5	email	varchar(30)	latin1_swedish_ci		No	None			Change Drop More
6	mobile	varchar(20)	latin1_swedish_ci		No	None			Change Drop More

4.feedback table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	name	varchar(30)	latin1_swedish_ci		No	None			Change Drop More
2	mob	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
3	email	varchar(30)	latin1_swedish_ci		No	None			Change Drop More
4	comm	varchar(200)	latin1_swedish_ci		No	None			Change Drop More

5.appointment_table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	**fname**	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
2	**lname**	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
3	**mobile**	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
4	**email**	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
5	**visit**	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More
6	**Date_Meet**	varchar(30)	latin1_swedish_ci		No	*None*			Change Drop More

4.3 : SOURCE CODE

1. HOME PAGE

```
<!DOCTYPE html>
<html>
   <head>
      <title>Construction</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <style>
         #header{
            width: 100%;
            height:200px;
         }
         body
         {
            margin: auto;
         }
         #Topic
         {
           width:100%;
           background-color: cyan;
           text-align: center;
           font-size: 40px;
         }
         #content
         {
            width: 900px;
            margin: auto;
            font-size:26px;
         }
         a
         {
            text-decoration: none;
            font-size: 22px;
            color:red;

         }
         a:hover
         {
          text-decoration:underline;
            font-size: 25px;
         }
          #footer{
            width: 100%;
            height:50px;
            font-size:20px;
            text-align: center;
            padding-top: 10px;
            background-color: black;
            color:white;
            padding-top: 10px;
         }
         #menu
         {
            width:100%;
```

```
            height: 50px;
            background-color: cyan;
        }
        #menu ul{
            list-style: none;
           margin-top: 0px;
        }
        #menu ul li
        {
            display: inline;
        }
        #menu ul li a{
            width:170px;
            height: 40px;
            display: block;
            float: left;
            text-align: center;
            text-decoration: none;
            font-size:22px;
             padding-top: 10px;
        }
    </style>
</head>

<body bgcolor="wheat">
    <div id="header">
        <img src="Image/headerImage.jpg" width="100%" height="200">
    </div>
    <div id="Topic">
      Welcome to Our National EnterPrises
    </div>
    <div id="menu">

        <ul>
            <li><a href="index.html">Home</a></li>
            <li><a href="about.html">About</a></li>
            <li><a href="service.html">Service</a></li>
            <li><a href="Gallery.jsp">Gallery</a></li>
            <li><a href="Contact.html">Contact</a></li>
            <li><a href="AdminLogin.html">Admin</a></li>
            <li><a href="UserLogin.html">User</a></li>
        </ul>
    </div>
<br>

<div id="content">
    <p>National Enterprises is a reputed and recognized firm in the field<br>
        of Civil Construction Work. While working in this field we have<br>
        gathered experience and expertise which benefits our clients. <br>
        All these years of work we have been working on upgrading our<br>
        knowledge and skill in the field of Civil Engineering.</p>

<p>We undertake works not just for finishing them but for completing it with<br>
    utmost perfection and to create a masterpiece with our hard work and<br>
    dedication. We undertake the execution of all types of construction<br>
    projects comprising structural civil works such as RCC, plastering, <br>
    masonry, fabrication, plumbing and sanitation, firefighting work, <br>
    waterproofing work, electrical work, painting work, flooring and tiling, <br>
    glass facades, door &amp;amp; windows fitting, etc. We undertake complete<br>
```

```
    building work ranging from foundation to finishing activities.</p>
<p>Skilled professional workers in combination with our progressive<br>
    machine and advanced tools help us to impart quality service that<br>
    you desire and deserve. Our services are provided according to our<br>
    client's needs and at affordable prices.</p>
<p>Perfection and reliability is our key to success and keeping our words<br>
  and trying to be ahead of the given time schedule is what keep driving<br>
    our customers and clients back to us. Testing the work done and rectifying<br>
    any minor defects in them help us to maintain our high quality of<br>
    workmanship in our work, thus keeping the confidence of clients intact.</p>
    </div>

    <div id="footer">
        Copyright © 2019 National Enterprises
    </div>
    </body>
</html>
```

2. ABOUT

```
<!DOCTYPE html>
<html>
  <head>
    <title>Construction</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
      #header{
        width: 100%;
        height:200px;
      }
      body
      {
        margin: auto;
      }
      #Topic
      {
       width:100%;
       background-color: cyan;
       text-align: center;
       font-size: 40px;
      }
      #content
      {
        width: 900px;
        margin: auto;
        font-size:26px;
      }
      a
      {
        text-decoration: none;
        font-size: 22px;
        color:red;

      }
      a:hover
      {
       text-decoration:underline;
        font-size: 25px;
      }
       #footer{
        width: 100%;
        height:50px;
        font-size:20px;
        text-align: center;
        padding-top: 10px;
        background-color: black;
        color:white;
        padding-top: 10px;
      }
      #menu
      {
        width:100%;
        height: 50px;
        background-color: cyan;
      }
```

```
        #menu ul{
           list-style: none;
          margin-top: 0px;
        }
        #menu ul li
        {
           display: inline;
        }
        #menu ul li a{
           width:170px;
           height: 40px;
           display: block;
           float: left;
           text-align: center;
           text-decoration: none;
           font-size:22px;
            padding-top: 10px;
        }
    </style>
</head>

<body bgcolor="wheat">
    <div id="header">
       <img src="Image/headerImage.jpg" width="100%" height="200">
    </div>
    <div id="Topic">
      Welcome to National Enterprises
    </div>
    <div id="menu">
       <ul>
          <li><a href="index.html">Home</a></li>
          <li><a href="about.html">About</a></li>
          <li><a href="service.html">Service</a></li>
          <li><a href="Gallery.jsp">Gallery</a></li>
          <li><a href="Contact.html">Contact</a></li>
          <li><a href="AdminLogin.html">Admin</a></li>
          <li><a href="UserLogin.html">User</a></li>
       </ul>
    </div>

<div id="content">

    <h2>Background History</h2>

    <p>Focusing on providing quality and reliable services to each client is the ultimate goal of National Enterprises. The company started its journey in the construction industry with plumbing and sanitation contractor in its starting phase. Soon it started its services in waterproofing and firefighting and as time passed the company grew and grew to encompass different services. Now National Enterprises is well known for its complete construction services that it provides.</p>

    <h2>Vision</h2>

    <p>“Our vision is to deliver unmatched quality services along with affordable prices to the clients.</p>

    <h2>Mission</h2>
```

```
    <p>Our mission is to establish our company as the leading construction company in all fronts such as project quality, time, safety, satisfaction etc. endeavoring to achieve excellence. We aim to abide by the ethics of the profession and to stick to moral values that form our foundational stones in our work.</p>
  </div>

  <div id="footer">
    Copyright © 2019 National Enterprises
  </div>
  </body>
</html>
```

3. SERVICES

```
<!DOCTYPE html>
<html>
  <head>
    <title>Construction</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
      #header{
        width: 100%;
        height:200px;
      }
      body
      {
        margin: auto;
      }
      #Topic
      {
       width:100%;
       background-color: cyan;
       text-align: center;
       font-size: 40px;
      }
      #content
      {
        width: 900px;
        margin: auto;
        font-size:26px;
      }
      a
      {
        text-decoration: none;
        font-size: 22px;
        color:red;

      }
      a:hover
      {
       text-decoration:underline;
        font-size: 25px;
      }
       #footer{
        width: 100%;
        height:50px;
        font-size:20px;
        text-align: center;
        padding-top: 10px;
        background-color: black;
        color:white;
        padding-top: 10px;
      }
      #menu
      {
        width:100%;
        height: 50px;
        background-color: cyan;
      }
```

```
        #menu ul{
            list-style: none;
           margin-top: 0px;
        }
        #menu ul li
        {
            display: inline;
        }
        #menu ul li a{
            width:170px;
            height: 40px;
            display: block;
            float: left;
            text-align: center;
            text-decoration: none;
            font-size:22px;
             padding-top: 10px;
        }
    </style>

</head>
<body bgcolor="wheat">
    <div id="header">
        <img src="Image/headerImage.jpg" width="100%" height="200">
    </div>
    <div id="Topic">
      Welcome to National Enterprises
    </div>
    <div id="menu">
        <ul>
            <li><a href="index.html">Home</a></li>
            <li><a href="about.html">About</a></li>
            <li><a href="service.html">Service</a></li>
            <li><a href="Gallery.jsp">Gallery</a></li>
            <li><a href="Contact.html">Contact</a></li>
            <li><a href="AdminLogin.html">Admin</a></li>
            <li><a href="UserLogin.html">User</a></li>


        </ul>
    </div>

<br><br>
<div id="content">


    <h1>Services</h1>

<p>We are one of the leading and innovative construction contractor specializing
   in all kinds of construction works having experience of more than two decades
   in the construction industry. Every work we undertake it becomes our prime
   responsibility to furnish the work with a creative touch and to carve a
   masterpiece out of it. </p>

<p>The only secret of our success in the construction industry is providing
   timely service with the best possible quality and at the same time being
   competitive so that our service is always within the budget of our clients.
```

```
   Our work culture has helped us to maintain a cordial long-lasting relationship
   with our clients, architects, consultants, Government agencies, subcontractors
   and lending agencies, any of which are lasting for several years.</p>

<h3>Following are some of the services that we specialize in:</h3>

<ul><li> Civil Work</li><li> Plastering</li>
   <li> Fire Fighting Systems</li>
   <li> Painting Works</li>
   <li> Glass &amp;amp; Glazing</li>
   <li> Electrical Works</li>
   <li> Doors &amp;amp; Shutters</li>
   <li> Flooring &amp;amp; Tiling</li>
   <li> Plumbing and Sanitation Work</li>
   <li> Waterproofing</li></ul>

   </div>
   <div id="footer">
     Copyright © 2019 National Enterprises
   </div>
   </body>
</html>
```

4. GALLERY

```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Gallery</title>
     <style>
       #header{
          width: 100%;
             height:200px;
       }
       body
       {
          margin: auto;
       }
       #Topic
       {
        width:100%;
        background-color: cyan;
        text-align: center;
        font-size: 40px;
       }
       #content
       {
          width: 1000px;
          margin: auto;
          font-size:26px;
       }
       a
       {
          text-decoration: none;
          font-size: 22px;
          color:red;

       }
       a:hover
       {
        text-decoration:underline;
          font-size: 25px;
       }
        #menu
       {
          width:100%;
          height: 50px;
          background-color: cyan;
       }
       #menu ul{
          list-style: none;
         margin-top: 0px;
       }
       #menu ul li
       {
          display: inline;
       }
       #menu ul li a{
          width:170px;
          height: 40px;
          display: block;
          float: left;
```

```
            text-align: center;
            text-decoration: none;
            font-size:22px;
             padding-top: 10px;
        }
        #footer{
            width: 100%;
            height:50px;
            font-size:20px;
            text-align: center;
            padding-top: 10px;
            background-color: black;
            color:white;
            padding-top: 10px;
        }
    </style>
</head>

<body bgcolor="wheat">
   <div id="header">
       <img src="Image/headerImage.jpg" width="100%" height="200">
    </div>
    <div id="Topic">
       Welcome to National EnterPrises
    </div>
     <div id="menu">
       <ul>
           <li><a href="index.html">Home</a></li>
           <li><a href="about.html">About</a></li>
           <li><a href="service.html">Service</a></li>
           <li><a href="Gallery.jsp">Gallery</a></li>
           <li><a href="Contact.html">Contact</a></li>
           <li><a href="AdminLogin.html">Admin</a></li>
           <li><a href="UserLogin.html">User</a></li>


       </ul>
    </div>

    <br>
<div id="content">
    <img src="Image/a1.jpg" width="490" height="360">
    <img src="Image/a2.jpg" width="490" height="360">
    <img src="Image/a3.jpg" width="990" height="720">
    <img src="Image/a4.jpg" width="490" height="360">
    <img src="Image/a5.jpg" width="490" height="360">
    <img src="Image/a6.jpg" width="990" height="720">
    <img src="Image/a7.jpg" width="490" height="360">
    <img src="Image/a8.jpg" width="490" height="360">
    <img src="Image/a9.jpg" width="490" height="360">
    <img src="Image/a10.jpg" width="490" height="360">
    <img src="Image/a11.jpg" width="990" height="720">
    <img src="Image/a12.jpg" width="490" height="360">
    <img src="Image/a13.jpg" width="490" height="360">
    <img src="Image/a14.jpg" width="990" height="720">
    <img src="Image/a15.jpg" width="490" height="360">
    <img src="Image/a16.jpg" width="490" height="360">
```

```
        <img src="Image/a17.jpg" width="490" height="360">
        <img src="Image/a18.jpg" width="490" height="360">
        <img src="Image/a19.jpg" width="990" height="720">
        <img src="Image/a20.jpg" width="490" height="360">
        <img src="Image/a21.jpg" width="490" height="360">
        <img src="Image/a22.jpg" width="990" height="720">
        <img src="Image/a23.jpg" width="490" height="360">
        <img src="Image/a24.jpg" width="490" height="360">
    </div>
     <div id="footer">
        Copyright © 2019 National Enterprises
    </div>
    </body>
</html>
```

5. CONTACT

```
<!DOCTYPE html>
<html>
  <head>
    <title>Construction</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
      #header{
        width: 100%;
        height:200px;
      }
      body
      {
        margin: auto;
      }
      #Topic
      {
       width:100%;
       background-color: cyan;
       text-align: center;
       font-size: 40px;
      }
      #content
      {
        width: 900px;
        margin: auto;
        font-size:26px;
      }
      a
      {
        text-decoration: none;
        font-size: 22px;
        color:red;

      }
      a:hover
      {
       text-decoration:underline;
        font-size: 25px;
      }
       #footer{
        width: 100%;
        height:50px;
        font-size:20px;
        text-align: center;
        padding-top: 10px;
        background-color: black;
        color:white;
        padding-top: 10px;
      }
      #menu
      {
        width:100%;
        height: 50px;
        background-color: cyan;
      }
      #menu ul{
        list-style: none;
```

```
            margin-top: 0px;
          }
          #menu ul li
          {
             display: inline;
          }
          #menu ul li a{
             width:170px;
             height: 40px;
             display: block;
             float: left;
             text-align: center;
             text-decoration: none;
             font-size:22px;
              padding-top: 10px;
          }
       </style>

    </head>
    <body bgcolor="wheat">
       <div id="header">
          <img src="Image/headerImage.jpg" width="100%" height="200">
       </div>
       <div id="Topic">
         Welcome to National Enterprises
       </div>
       <div id="menu">

          <ul>
             <li><a href="index.html">Home</a></li>
             <li><a href="about.html">About</a></li>
             <li><a href="service.html">Service</a></li>
             <li><a href="Gallery.jsp">Gallery</a></li>
             <li><a href="Contact.html">Contact</a></li>
             <li><a href="AdminLogin.html">Admin</a></li>
             <li><a href="UserLogin.html">User</a></li>

          </ul>
       </div>


    <div id="content">
       <center>
<h2>Address:</h2>
<p>Shop no. 4 Mira Tabassum Apt,</p>
<p>Pooja Nagar Road, Opp Kasam Tower,</p>
<p>Mira Road (E), Thane – 401107</p>
<h2>Contact:</h2>
<p>8286350996</p>
<p>admin@nationalenterprises.org.in</p>
<p>info@nationalenterprises.org.in</p>
       </center>

    </div>
    <div id="footer">
       Copyright © 2019 National Enterprises
    </div>
    </body>
</html>
```

6. ADMIN PANEL

```
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>Admin Panel</title>
       <link rel="stylesheet" type="text/css" href="StyleCss/mystyle.css" />

       <style>
          #header
          {
            width: 100%;
            height:80px;
          }
          body
          {
            margin: auto;
          }
          #Topic
          {
           width:100%;
           background-color: cyan;
           text-align: center;
           font-size: 40px;
          }
            #footer{
            width: 100%;
            height:50px;
            font-size:20px;
            text-align: center;
            padding-top: 10px;
            background-color: black;
            color:white;
          }
      </style>
   </head>
   <body bgcolor="wheat">
    <div style="width:100%; background-color:cyan; height:50px; text-align:right; padding-right: 30px;">
          <%
           String name=(String)session.getAttribute("admin");
           out.println("Welcome "+name);
           out.println("<a href='logoutadmin'>Logout</a>");
           %>
      </div>
       <div id="header">
         <h1>Welcome to Admin Panel </h1>
      </div>
           <center>
              <div class="b1"> <a href="postjob.jsp">Post Job</a></div>
              <div class="b1"> <a href="viewappointment">View Appointment</a></div>
              <div class="b1"> <a href="removeappointment">Remove Appointment</a></div>
              <div class="b1"> <a href="viewjob">View Jobs</a></div>
             <div class= "b1"> <a href="removejob">Remove Jobs</a></div>
              <div class="b1"> <a href="viewfeedback">View Feedback</a></div>
             <div class="b1"> <a href="removefeedback">Remove Feedback</a></div>
           </center>
    <div id="footer">
      This Website is Created By Wajid Siddiqui
   </div>
   </body>
</html>
```

7. USER PANEL

```
<!DOCTYPE html>
<html>
   <head>
      <title>Constructor</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <link rel="stylesheet" type="text/css" href="StyleCss/mystyle.css" />
     <style>
       #footer{
            width: 100%;
            height:50px;
            font-size:20px;
            text-align: center;
            padding-top: 10px;
            background-color: black;
            color:white;
         }
     </style>
   </head>
   <body bgcolor="wheat">
      <div style="width:100%; background-color:cyan; height:50px; text-align:right; padding-right: 30px;">
          <%
            String name=(String)session.getAttribute("user");
            out.println("Welcome "+name);
            out.println("<a href='logout'>Logout</a>");
            %>
      </div>
      <br>
      <div id="header">
         <h1>Welcome to User Panel  </h1>
      </div>

   <center>
      <div class="b1">
        <a href="jobview">View Job</a>
      </div>

                <div class="b1"> <a href="ApplyForJob.jsp">Apply Job</a></div>
                <div class="b1"> <a href="appointment.jsp">Appointment</a></div>
                <div class="b1"> <a href="feedback.jsp">Feedback</a></div>
                <div class="b1"> <a href="Gallery.jsp">View gallery</a></div>
   </center>

   <div id="footer">
      Copyright © 2019 National Enterprises
   </div>
   </body>
</html>
```

8. ADMIN LOGIN

```
<!DOCTYPE html>
<html>
   <head>
      <title>Constructor</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <style>
          #header{
            width: 100%;
               height:200px;
         }
         body
         {
            margin: auto;
         }
         #Topic
         {
          width:100%;
          background-color: cyan;
          text-align: center;
          font-size: 40px;
         }
      </style>
   </head>
   <body>
      <div id="header">
         <img src="Image/headerImage.jpg" width="100%" height="200">
      </div>
      <div id="Topic">
         Welcome to Our National EnterPrises
      </div>

      <br>
   <center><h1>Admin Login</h1>
   <form method="post" action="adminlogin">
      <table border="0" width="200" height="200" bgcolor="cyan">
         <tr>
            <td>Admin</td><td><input type="text" name="txtadmin"></td>
         </tr>
         <tr>
            <td>Password</td><td><input type="password" name="txtpass"></td>
         </tr>
         <tr>
            <td><input type="submit" value="Login"></td>
         </tr>
      </table>
   </form>
   </center>
   </body>
</html>
```

9. USER LOGIN

```
<!DOCTYPE html>
<html>
   <head>
      <title>Construction</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <style>
          #header
          {
             width: 100%;
                height:200px;
          }
          body
          {
             margin: auto;
          }
          #Topic
          {
            width:100%;
            background-color: cyan;
            text-align: center;
            font-size: 40px;
          }
      </style>
   </head>
   <body>
       <div id="header">
          <img src="Image/headerImage.jpg" width="100%" height="200">
      </div>
      <div id="Topic">
        Welcome to Our National EnterPrises
      </div>

      <br>
      <center><h1>User Login</h1>
   <form method="post" action="userlogin">
      <table border="0" width="200" height="200" bgcolor="cyan">
         <tr>
            <td>UserName</td><td><input type="text" name="txtuser"></td>
         </tr>
         <tr>
            <td>Password</td><td><input type="password" name="txtpass"></td>
         </tr>
         <tr>
            <td><input type="submit" value="Login"></td>
         </tr>
      </table>
   </form>
         <a href="register.html">New User Register</a>
   </center>
   </body>
</html>
```

10. REGISTER

```
<!DOCTYPE html>
<html>
  <head>
    <title>Registration</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
    body
        {
          background-color: antiquewhite;
          color:darkslategray;
          margin: 0px;

        }
    </style>
  </head>
  <body>
  <center>
    <form action="register" method="post">
      <h1>Registration Form</h1>
      Name : <input type="text" name="name"><br><br>
      UserName : <input type="text" name="username"><br><br>
      Password : <input type="password" name="password"><br><br>
      Country : <select name="country">
                <option>India </option>
                <option>England</option>
                <option>France</option>
                <option>Japan</option>
                <option>USA</option>
              </select><br><br>
      Mobile Number : <input type="text" name="mobile"><br><br>


        <input type="submit" value="Register">   
    <input type="reset" value="Reset">
        </form>
  </center>
  </body>
</html>
```

11. APPOINTMENT

```
<!DOCTYPE html>
<html>
   <head>
      <title>Constructor</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <link rel="stylesheet" type="text/css" href="StyleCss/mystyle.css" />
   </head>
   <body>
      <div style="width:100%; background-color:cyan; height:50px; text-align:right; padding-right: 30px;">
         <%
            String name=(String)session.getAttribute("user");
            out.println("Welcome "+name);
            out.println("<a href='logout'>Logout</a>");
            %>
      </div>
      <br>
      <div id="header">
         <h1>Welcome to User Panel  </h1>
      </div>

   <center>
     <h1>Request an Appointment</h1>
      <hr color="red">
      <form method="post" action="appointment">
         First Name<input type="text" name="fname"><br><br>
         Last Name<input type="text" name="lname"><br><br>
         Mobile<input type="text" name="mob"><br><br>
         E-mail<input type="email" name="email"><br><br>
         First Time Visit?<input type="radio" name="visit" value="yes">Yes
         <input type="radio" name="visit" value="no">No<br><br>
         date of Meeting<input type="text" name="datemeet"><br><br>

         <input type="submit" value="submit">


      </form>
   </center>
   </body>
</html>
```

12. POST JOB

```
<!DOCTYPE html>
<html>
   <head>
      <title>Constructor</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <link rel="stylesheet" type="text/css" href="StyleCss/mystyle.css" />
   </head>
   <body>
      <div style="width:100%; background-color:cyan; height:50px; text-align:right; padding-right: 30px;">
         <%
            String name=(String)session.getAttribute("admin");
            out.println("Welcome "+name);
            out.println("<a href='logoutadmin'>Logout</a>");
            %>
      </div>
      <br>
      <div id="header">
         <h1>Welcome to Admin Panel  </h1>
      </div>

      <center>

      <h1>Job Posted By Admin</h1>
      <form method="post" action="postjob">

         <p>POST for Job<input type="text" name="ps" placeholder="Project manager"><br>
         <p>Opening Date<input type="text" name="opendate"></p>
          <p>Qualifications<input type="text" name="qual"></p>
           <p>Minimum Exp<input type="text" name="minexp"></p>
          <p>Closing Date<input type="text" name="closedate"></p>
          <p><input type="submit" value="submit"></p>
      </form>
   </center>
   </body>
</html>

   </body>
</html>
```

13. APPLY JOB

```
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>Construction</title>
      <link rel="stylesheet" type="text/css" href="StyleCss/mystyle.css" />
   </head>
   <body>

       <div style="width:100%; background-color:cyan; height:50px; text-align:right; padding-right: 30px;">
          <%
             String name=(String)session.getAttribute("user");
             out.println("Welcome "+name);
             out.println("<a href='logout'>Logout</a>");
             %>
      </div>
      <br>
      <div id="header">
         <h1>Welcome to User Panel  </h1>
      </div>

   <center>
     <h1>Apply For Job</h1>
      <hr color="red">
      <form method="post" action="applyjob">
         First Name:<input type="text" name="fname"><br><br>
         Last Name:<input type="text" name="lname"><br><br>
         Job Title:<input type="text" name="postjb"><br><br>
         Exp:<input type="text" name="ex"><br><br>
         E-mail:<input type="email" name="email"><br><br>
         Mobile:<input type="text" name="mob"><br><br>
         <input type="submit" value="submit">


      </form>
   </center>
   </body>
</html>
```

14. FEEDBACK

```
<!DOCTYPE html>
<html>
   <head>
      <title>Constructor</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <link rel="stylesheet" type="text/css" href="StyleCss/mystyle.css" />
   </head>
   <body>
      <div style="width:100%; background-color:cyan; height:50px; text-align:right; padding-right: 30px;">
         <%
            String name=(String)session.getAttribute("user");
            out.println("Welcome "+name);
            out.println("<a href='logout'>Logout</a>");
            %>
      </div>
      <br>
      <div id="header">
         <h1>Welcome to User Panel  </h1>
      </div>
      <center>
      <h1>Feedback Form</h1>
       <hr color="red">
      <form method="post" action="feedback">
         Enter Full Name<br><input type="text" name="name"><br><br>
         Mobile<br><input type="text" name="mob"><br><br>
         E-mail<br><input type="email" name="email"><br><br>
         Your Comment<br>
         <textarea rows="10" cols="30" name="comm"></textarea><br><br>



         <input type="submit" value="submit">


      </form>
   </center>
    </body>
</html>
```

Chapter 5

SYSTEM IMPLEMENTATION

5.1 HARDWARE & SOFTWARE REQUIREMENTS

Hardware Requirements:

The Minimum Hardware and system Software requirements for development and using this system is:

1. C.P.U : Intel Pentium – IV and above
2. Processor : 1 GHz
3. Memory : 128MB
4. Hard Disk : 20GB

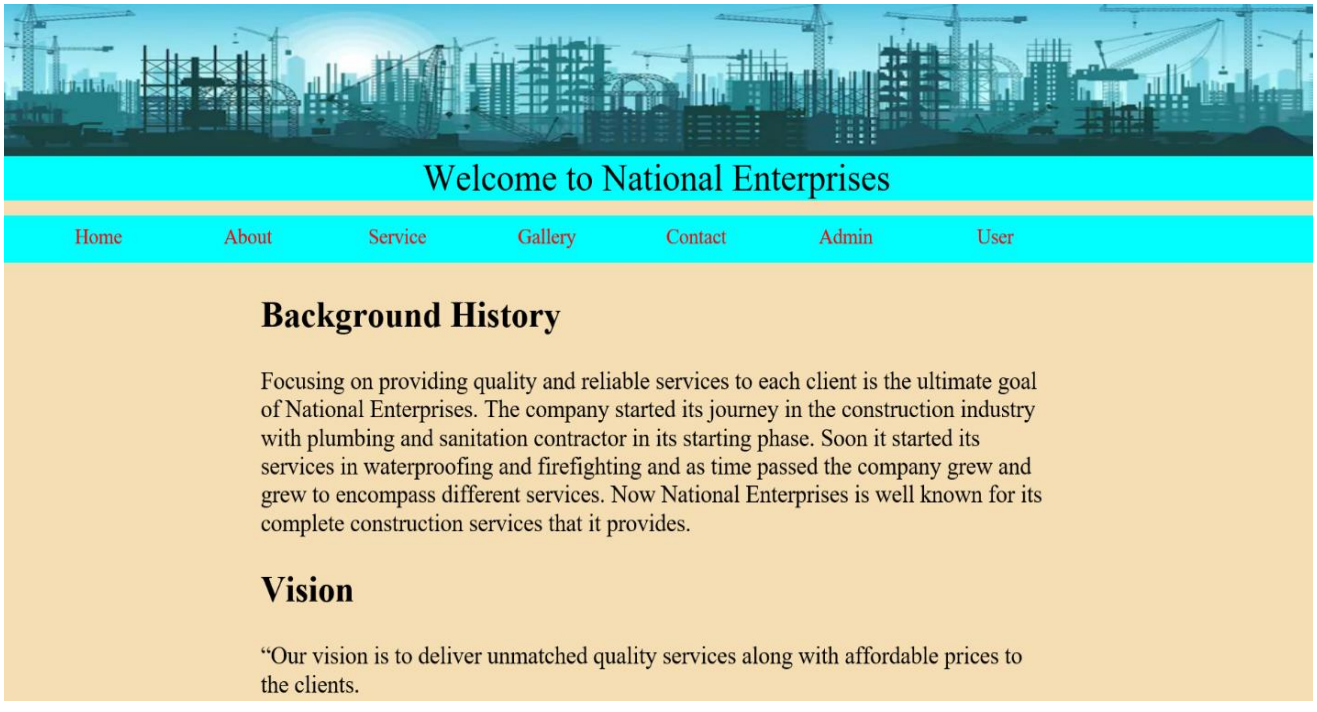
Software Specification:

- **CLIENT-SIDE REQUIREMENTS**
  - Google Chrome / Internet Explorer
  - Windows Operating System(Windows XP/7/8/10)
- **SERVER-SIDE REQUIREMENTS**
  - Windows Operating System(Windows XP/7/8/10)
  - MySQL
  - GlassFish Server

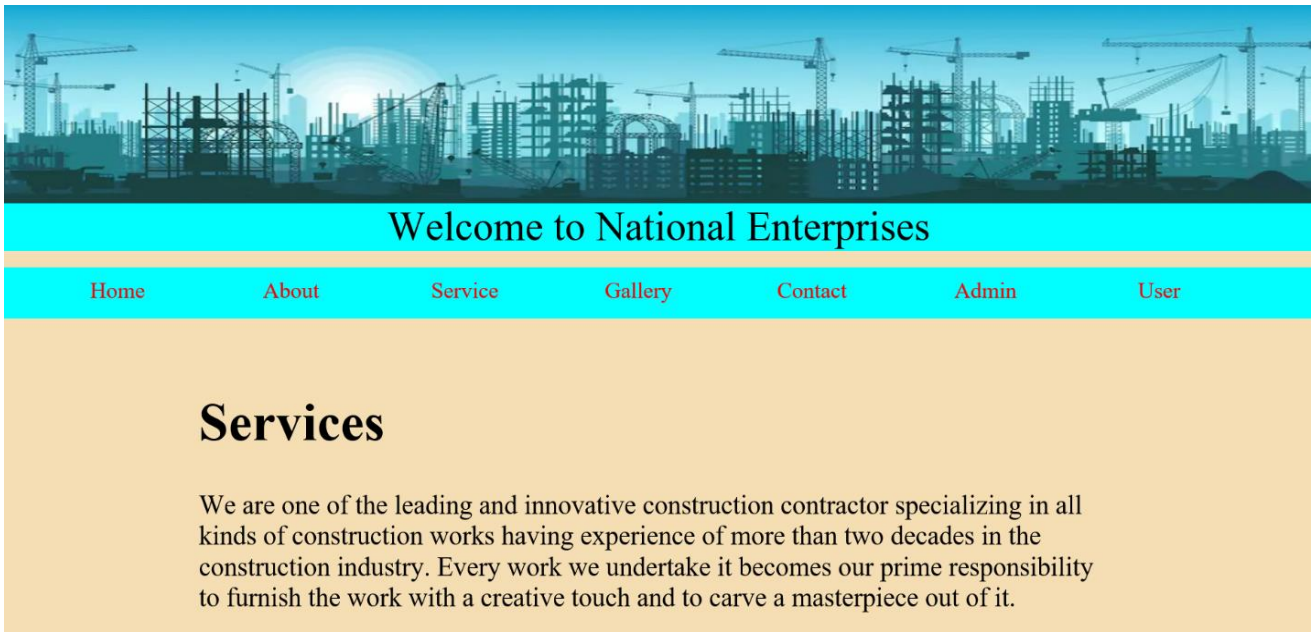
SCREEN LAYOUTS

❖ HOMEPAGE

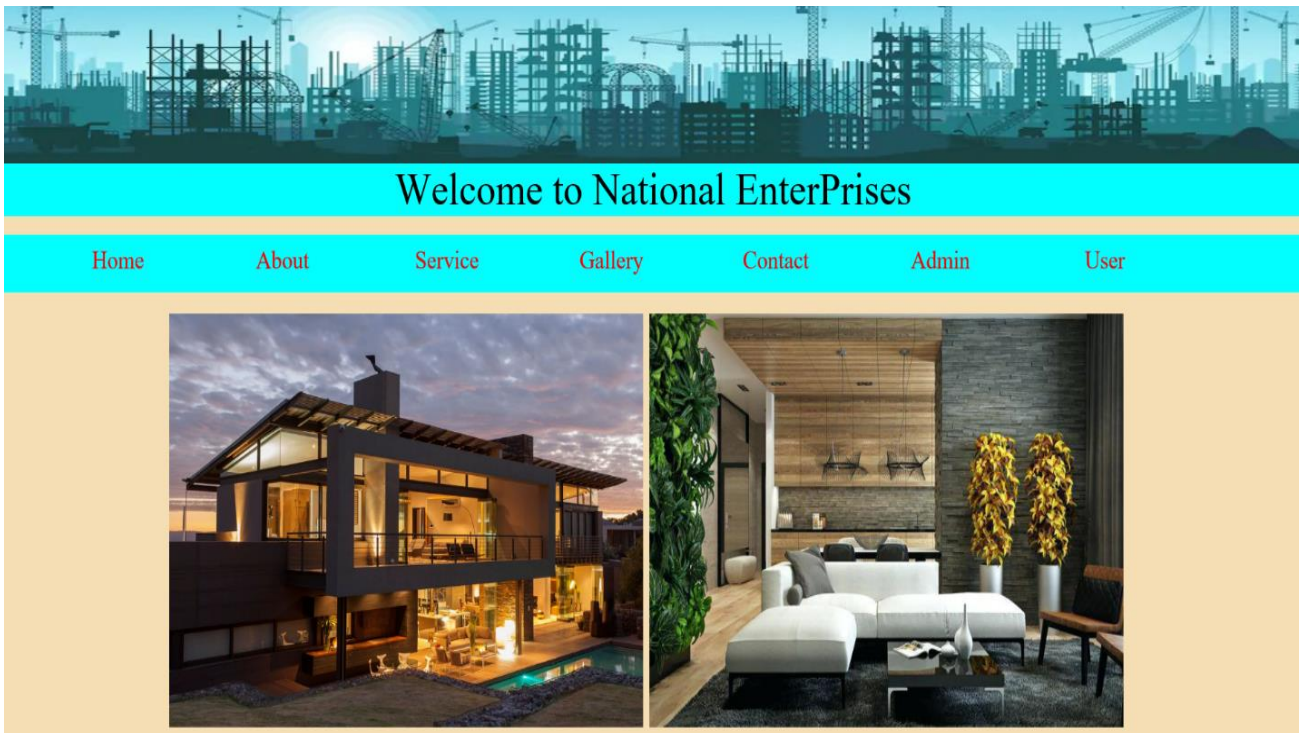
❖ ABOUT



❖ SERVICES

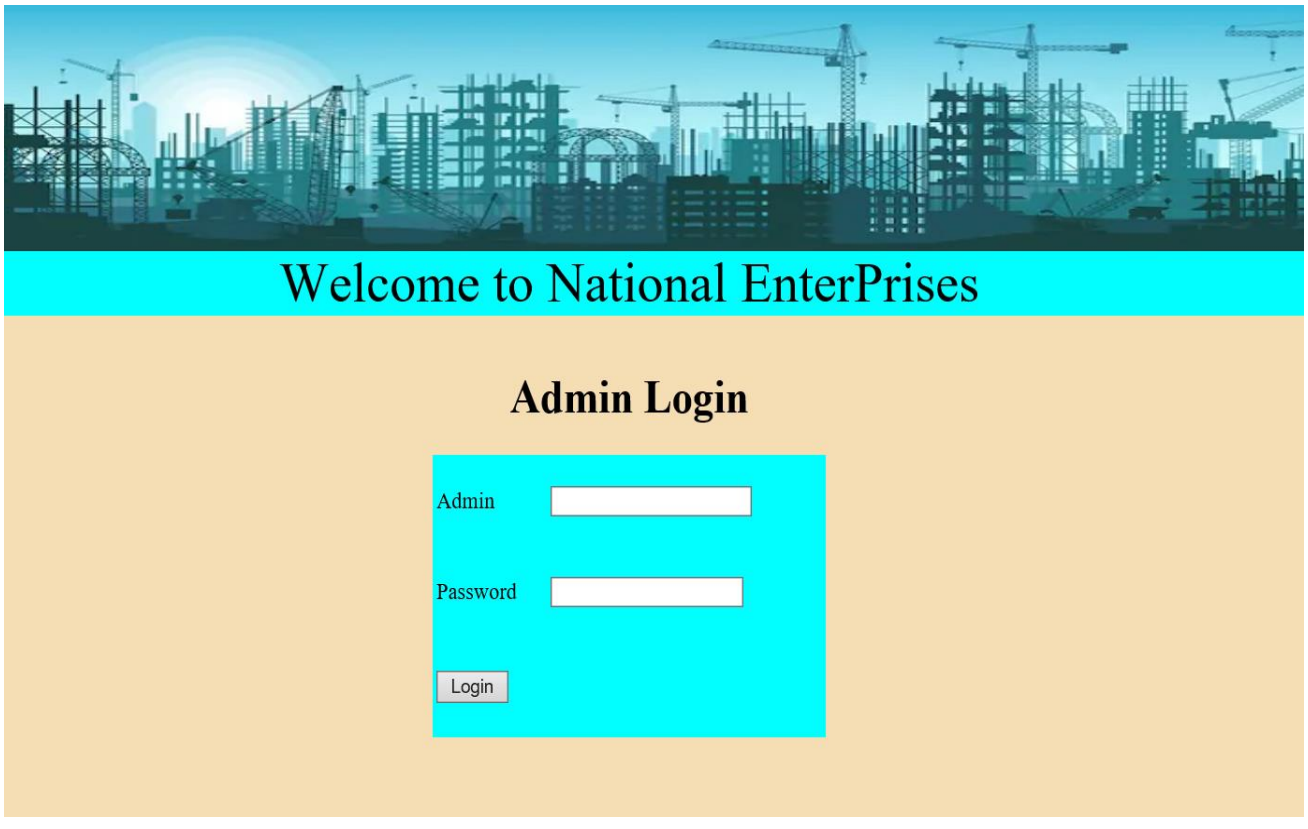


❖ GALLERY

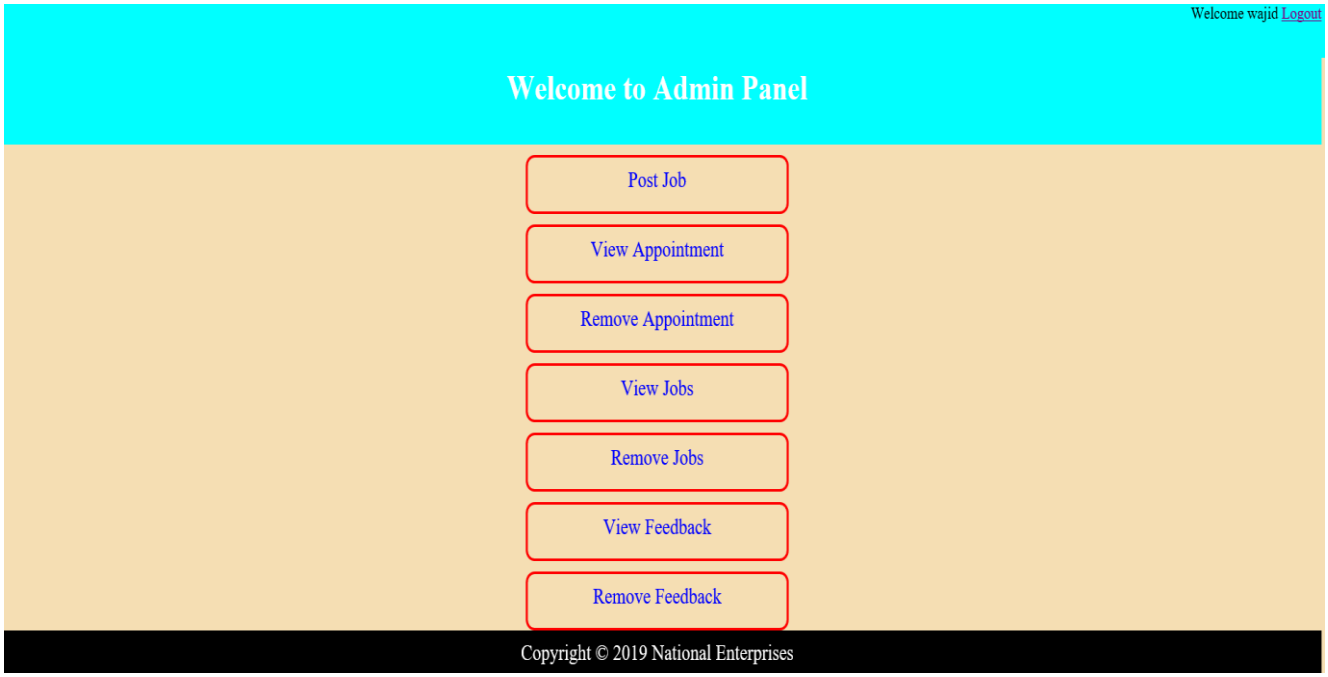


❖ CONTACT

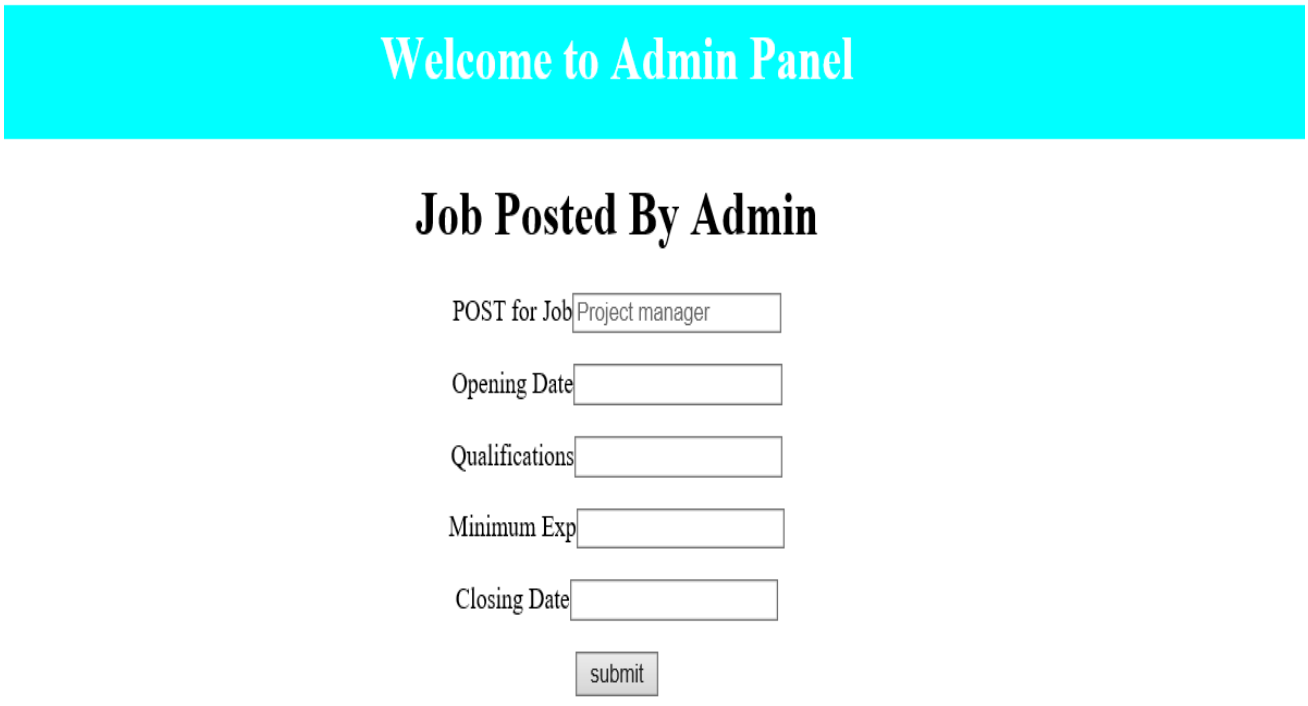
❖ ADMIN LOGIN



❖ ADMIN PANEL



❖ ADMIN POST JOB



❖ ADMIN VIEW APPOINTMENT

Appointment List

Fname	Lanme	Contact	Email	Visited	Appoint Date
test	user	0900900900	testuser@gmail.com	yes	4-4-2020
Wajid	Siddiqui	0900900900	siddiqui@gmail.com	no	03-03-2020

❖ ADMIN REMOVE APPOINTMENT

Remove Appointment

Fname	Lanme	Contact	Email	Visited	Appoint Date	Operation
test	user	0900900900	testuser@gmail.com	yes	4-4-2020	Delete
Wajid	Siddiqui	0900900900	siddiqui@gmail.com	no	03-03-2020	Delete

❖ ADMIN VIEW JOBS

Back Admin

Opening Job

Post Job	Openning Date	Qualification	Min Exp	Close date
Project manager	10-mar-2020	BE	5	15-apr-2020
Area manager	11-jan-2020	MBA	10	15-mar-2020
Engineer	11-feb-2020	B.E	7	30-mar-2020

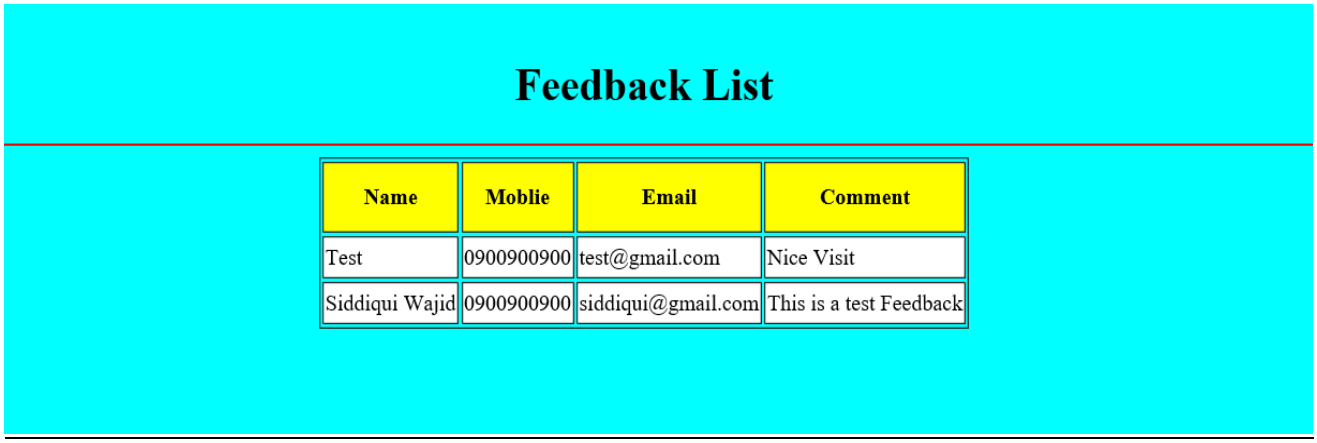
❖ ADMIN REMOVE JOBS

Back Admin

Remove Job

Post Job	Openning Date	Qualification	Min Exp	Close date	Operation
Project manager	10-mar-2020	BE	5	15-apr-2020	Delete
Area manager	11-jan-2020	MBA	10	15-mar-2020	Delete
Engineer	11-feb-2020	B.E	7	30-mar-2020	Delete

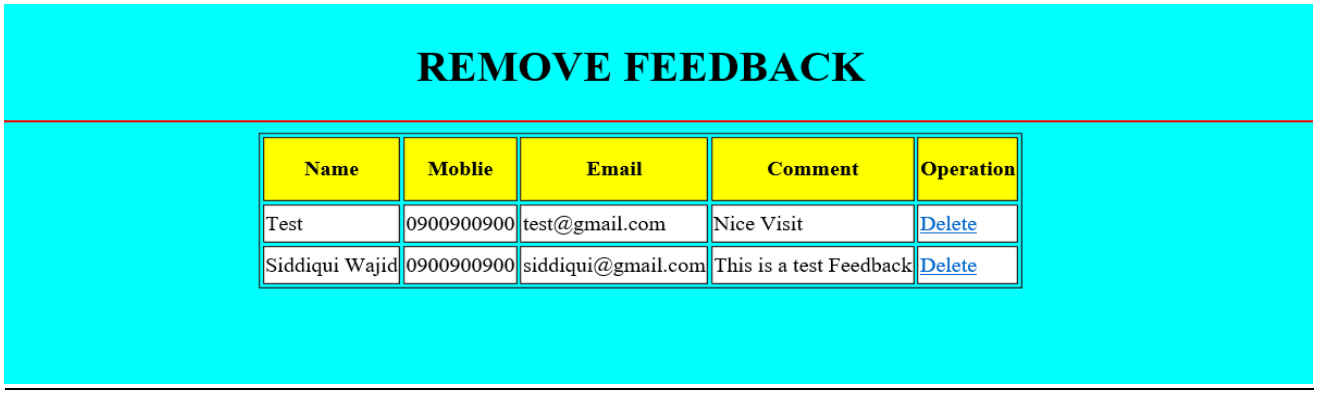
❖ ADMIN VIEW FEEDBACK



Feedback List

Name	Moblie	Email	Comment
Test	0900900900	test@gmail.com	Nice Visit
Siddiqui Wajid	0900900900	siddiqui@gmail.com	This is a test Feedback

❖ ADMIN REMOVE FEEDBACK

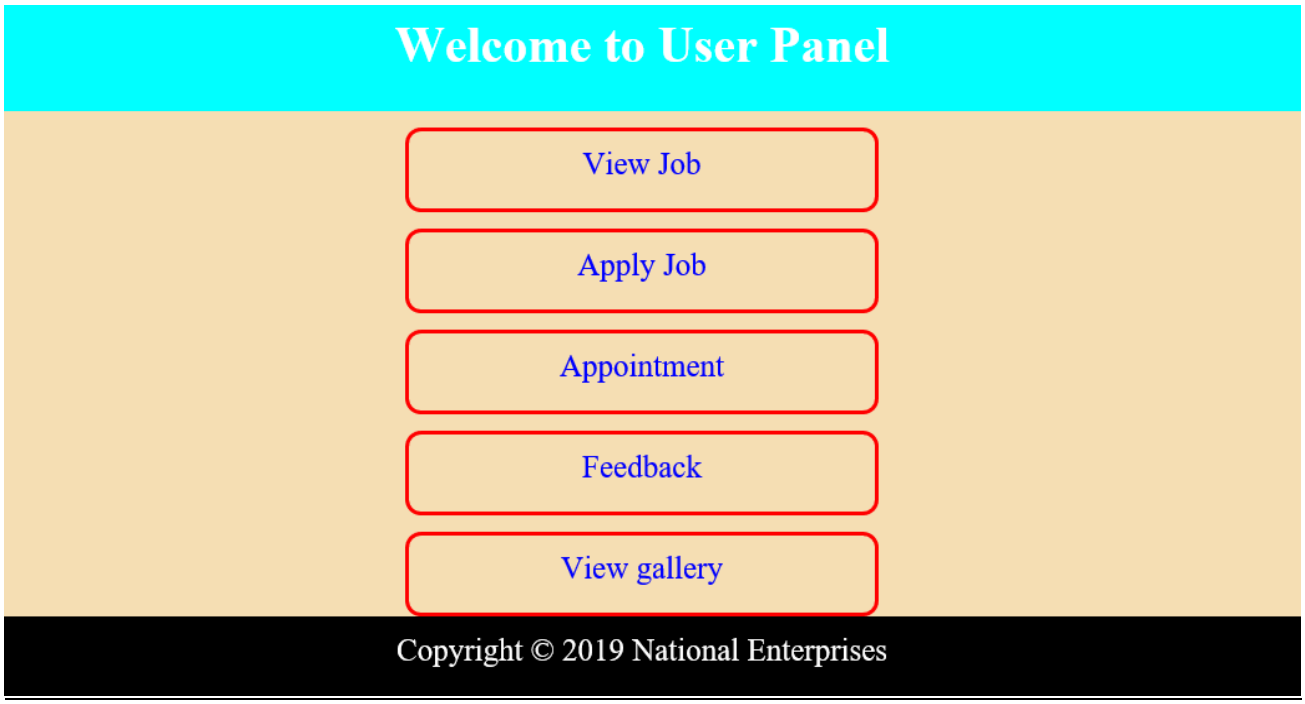


REMOVE FEEDBACK

Name	Moblie	Email	Comment	Operation
Test	0900900900	test@gmail.com	Nice Visit	Delete
Siddiqui Wajid	0900900900	siddiqui@gmail.com	This is a test Feedback	Delete

❖ USER LOGIN

❖ USER PANEL



❖ **USER VIEW JOB**

Opening Job

Post Of Job: Project manager
Opening Date:10-mar-2020
Qualification:BE
Min Exp:5
Last Date:15-apr-2020

Post Of Job: Area manager
Opening Date:11-jan-2020
Qualification:MBA
Min Exp:10
Last Date:15-mar-2020

Post Of Job: Engineer
Opening Date:11-feb-2020
Qualification:B.E
Min Exp:7
Last Date:30-mar-2020

❖ **USER APPLY JOB**

Welcome to User Panel

Apply For Job

First Name:

Last Name:

Job Title:

Exp:

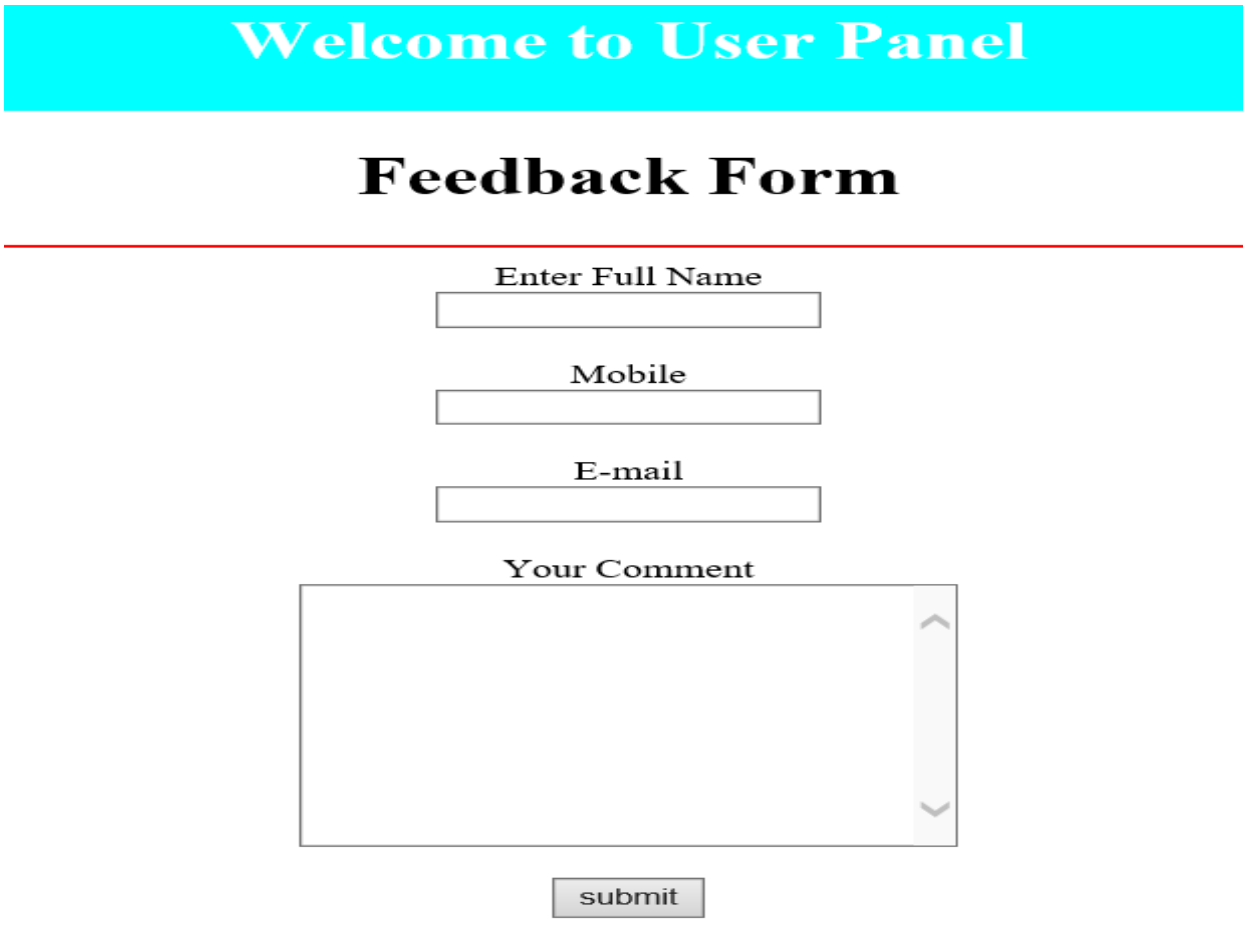
E-mail:

Mobile:

submit

❖ **USER APPOINTMENT**

❖ **USER FEEDBACK**



Chapter 6

FUTURE ENHANCEMENTS

- Being a BSc. IT final year project it was not possible to incorporate each and every details and functions that are require in a professional website for contractors.
- **T**he further future enhancement that can be applied to the National Enterprises Website is to sell the construction products like an e-commerce website.
- User can see online progress of their work. Face to face online video can be done in future.
- It can also involve a smart decision-making system for choosing vendor to minimize cost.
- It can generate quotation of the entire work by user itself. Online payments of products and services can be done
- User can directly contact to worker.

Chapter 7

REFERENCES & BIBLIOGRAPHY

Internet Sources for Information:

- www.google.com
- www.codeproject.com
- www.w3schools.com
- www.youtube.com
- www.tutorialspoint.in
- www.codepen.com
- www.draw.io

Textual Reference books:

During the development of this project, I have referred to the following books:

- Black Book, By-Pradeep Kothari
- Software Engineering A Practioner's Approach – Rogger