



Tribhuvan University
Faculty of Humanities and Social Sciences

Smart Contact Manager

A PROJECR REPORT

Submitted to:
Department of Computer Application
Damak Multiple Campus

In partial fulfillment of the requirements for the Bachelors in Computer Application

Submitted by
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August, 2022

Under the Supervision of
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Tribhuvan University
Faculty of Humanities and Social Sciences
Damak Multiple College

Supervisor's Recommendation

I hereby recommend that this project prepared under my supervision by **Sandip Chapagain** entitled “**Smart Contact Management.**” in partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

Mr. Ghanashyam Adhikari

SUPERVISOR

Damak Multiple College

Department of BCA



Tribhuvan University

Faculty of Humanities and Social Sciences

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LETTER OF APPROVAL

This is to certify that this project prepared by **Sandip Chapagain** entitled “**Smart Contact Management System**” in partial fulfillment of the requirements for the degree of Bachelor in Computer Application has been evaluated. In our opinion, it is satisfactory in the scope and quality as a project for the required degree.

<hr/> Signature Supervisor BCA Department Damak Multiple Campus	<hr/> Signature Abhinash jha Project Coordinator BCA Department Damak Multiple Campus
<hr/> Signature of Internal Examiner	<hr/> Signature of External Examiner

Acknowledgement

This project is prepared in the partial fulfillment of the requirement for the degree of Bachelor in Computer Application (BCA). The satisfaction and success of completion of this task would be incomplete without heartfelt thanks to people whose constant guidance, support and encouragement made this work successful. On doing this undergraduate project I have been fortunate to have help, support and encouragement from many people I would like to acknowledge them for their cooperation.

My first thanks goes to Tribhuvan University for designing such a worthy syllabus and making us do this project. My next batch of thanks goes to the faculty of Management of DMC without whose help our project would have been impossible. This list includes chief of DMC, **Mr. Netra Budhathoki**. My very sincere and heartfelt thanks go to **Mr. Ghanashyam Adhikari** our project supervisors who constantly guided us through the project time period. Without his guidance, my project would have been impossible. Last but not the least I want to thank every direct and indirect hands that were involved in completion of this project.

This project has been a wonderful experience where I have learnt and experienced many beneficial things.

Sandip Chapagain

Aug, 2022

Abstract

The project “SMART CONTACT MANAGER” is a system is the process of recording contacts’ details and tracking their interactions towards the company. This System have gradually evolved into an aspect of customer relationship management (CRM) system, which allow business to improve sales and services levels of the company. This online SMART CONTACT MANAGER is available through web application. It will tract the company’s staff information as well as their image, work etc. From the user dashboard, the user allow to store the is and every details of each and every staff of the company.

The main aim of this project is to provide simple platform to the User to Save There contact details of relatives or staff of the company. The proposed of the systems is simplify store the information of the people and. It provides the backup of the contact details of useful people or staff of the company the proposed system was designed and implemented using JAVA, JS, HTML, CSS and MYSQL

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List of Abbreviation

Abbreviation	Full description	Page
DMC	Damak Multiple campus	i
MySQL	Structure Query Language	ii
HTML	hyper text markup language	ii
CSS	Cascading Style Sheets	ii
JS	Java script	ii
ER	Entity Relationship	7
DFD	Data Flow Diagram	7

Chapter 1: Introduction

1.1. Introduction

Smart Contact manager is the Web application software to store the Contact records of a user or company's staff. It maintains the records in systematic and scientific procedures. Efficiency is the core thing of this software.

This project will play a vital role to keep contact detail it helps for a company fully digital and well organized. The main aim of this project is to keep or store the contact details of the user or employee of the company.

Smart Contact manager System is the web application software use to store contact detail. Smart Contact Manager System is a web application to maintain employee contact detail. This software helped to register user details as well as company employee's contact details etc.

1.2. Problem Statement

Traditional method of management is the main problem of the today modern world. This is the age of modern computers and digitalization, so all the system present are digital. According to the modern world requirement, online system and application software are mostly used. The main problems are listed below:

- Traditional methods
- Much time consuming to keep record in book-keeping system
- Slow search of record in note book system
- High chance of data lose

1.3. Objectives

The objectives of project are as follows:

- To keep the contact detail of the company's employee or user's relative.
- Multiple user can access
- Operated in any device

1.4. Scope and Limitations

Smart Contact Manager System is the web application software designed and developed for store the contact details of the company's staff. Its scopes are given below:

- Keep contacts details of company's staff or user's relative

Limitations of this application software are listed below:

- Internet Reliance
- Security
- Reduced Speed
- Browser Support
- No GPS Tracking

1.5. Report Organization

Chapter 1: Introduction of the project along with project scope limitations and objectives are described.

Chapter 2: Background study related to the project along with general descriptions of project functions and components. Literature review in order to have broader understanding of the project concepts based on research done previously and analyze similar systems for comparison with project.

Chapter 3: System Analysis and Design of the system using various charts and figures. Functional requirements defined using use cases and other techniques. Database schema, interface design and deployment diagram are included.

Chapter 4: Tools and techniques used for project implementation along with algorithms used in the project and creation of test cases to test the system as unit and as a whole.

Chapter 5: Lessons learn from start to finishing the project, future recommendations for other projects and project conclusion.

Chapter 2: Background Study and Literature Review

2.1. Background Study

In this 21st century most of the people are familiar with technology most of the people are depend on technology especially Transportation and communication are the most two very useful in our day to day life .obviously communication play significant role in our daily life .We know that , basically in most of the office or company the role of manager is to keep all the staff contact details ,to maintain the communication between staff so it should necessary to store the all the staff contact details .In previous days people use to store the contact details of their relative in notebook .. Searching contact details of any particular person becomes lengthy and time consuming Paper can be damaged or note book can be loss , now to reduce this problem my project "smart contact manager" was introduce

Now Mobile phone is introduce to store the contact details as well as for phones calls .in some situation mobile phone is not much efficient ,may be it would loss/ battery low/ or some technical issues take place so to overcome the ..my project " smart contact manager " was introduce it can store much more information of staff , Any user can easily store and search specific persons details with in minimum time , including high level security cannot be access by unauthorized persons ,multiple user can access the system from any environment.

2.2 Literature Review

Before making this project, a brief study on old smart contact manager were made. Various book keeping system were studied.

‘monday.com ’ [1] developed by Eran zinman, Royman using NodeJS. Best for employee time & task tracking.

‘eddy’ [2] using java developed by Travis Hansen-co is an online system, Best all-in-one HR software for small, local businesses.

‘workday’ [3] developed by cloud computing enterprise software company, Best for business & professional services companies

Chapter 3: System Analysis and Design

3.1 System Analysis

System analysis is the process of studying the each and every thing of a system in detail way. Critical analysis is done to know the activities of the system. It helps in the perspective of developing of the required software. Smart Contact Manager System is analyzed in various perspectives to get the required output. It helps to implement the software easily and efficiently.

3.1.1 Requirement Analysis

1. Functional Requirements

These are the major requirements of the software. User defined requirements are called functional requirements. In this project, functional requirements are:

- To keep Description of the person (notepad).
- To store image of the person.
- Each user has profile base system.
- Searching functionality.
- To display details of the employee.

2. Non-Functional Requirements

These are the requirement that user don't define but should be there in software. In this project, non-functional requirements are:

- **Validations on different fields:** Validation is an automated process of ascertaining that each field contains the correct value before the form is accepted
- **Availability:** Stands for the system's reliability and accessibility to the user.
- **Security:** Defines how the system should confront the malwares
- **Performance:** Define the system's capability to handle the workloads.
- **Reliable:** It is important requirement for most software products so a software requirements specification should contain a reliability requirement
- **Efficient:** Efficient is the extent to which the software system handles capacity, throughput, and response time.

3.1.2 Feasibility Study

Feasibility study is the process of determining the necessary requirements for the developer. It determines how much time does the project needed to complete it through available resources. It is done before the starting phase of project. Possibility of project is determined here by studying operational, economic, technical, time and schedule feasibility. Comparison of real work and logical work is done to achieve the best result of the project development with systematic and scientific as well as efficient way.

3.1.2.1 Operational Feasibility

This study is carried out to check the acceptance of the system. ‘smart contact manager’ is design using simple UI so user can learn very fast to use it. So, project is operationally feasible.

3.1.2.2 Economic Feasibility

Economic Feasibility is directly determined by calculating the total cost required for the development of the project. so,

Tools	Cost
Spring Tools Suite4 IDE	FREE
MYSQL	FREE
Tomcat-9 Server	FREE

From the above Table it is clear that, My project is simple and easy the cost of development can be bear in development phase so, this project is economically flexible

3.1.2.3 Technical Feasibility

This study is carried out to check technical requirement of the system. Smart Contact Manager is made using java in spring boot framework which is platform independent language. So, it is web application It can be use in all types of operating system with java virtual machine (JVM) installed. This system can be use on computer with very basic specification. So, this software is technically feasible.

3.1.2.4 Time Feasibility

This project will be completed in given time period. We know it by studying the above mentioned feasibility study. As developer focuses on this project to give user satisfaction, it is feasible respect to time.

3.1.2.5 Schedule Feasibility

Schedule Feasibility is defined as the probability of a project to completed within its scheduled time limits, by a planned due date. If a project has a high probability to be completed on-time, then its schedule feasibility is high. If We want to see the project completed before they can lose their utility, we need to give proper attention to controlling their schedule feasibility.

The final schedule of the project is given below:

Task	Falgun				Chaitra				Baisakh			
	week 1	week 2	week 3	week 4	week 1	week 2	week 3	week 4	week 1	week 2	week 3	week 4
Planning												
Requirement analysis												
UI design												
Database design												
Report writing												
Implementati on												
Testing and debugging												

Figure 1: Gantt Chart

3.1.3 Data Modeling (ER- Diagram)

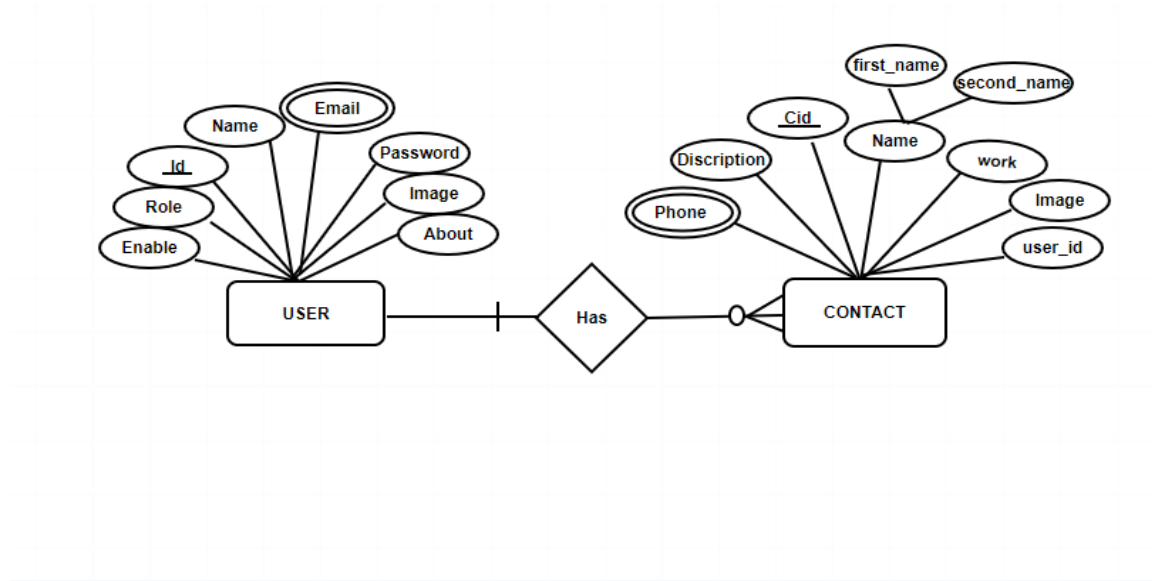


Figure 2: E-R Diagram

3.1.4 Process Modeling (DFD)

3.1.4.1 Zero Level DFD

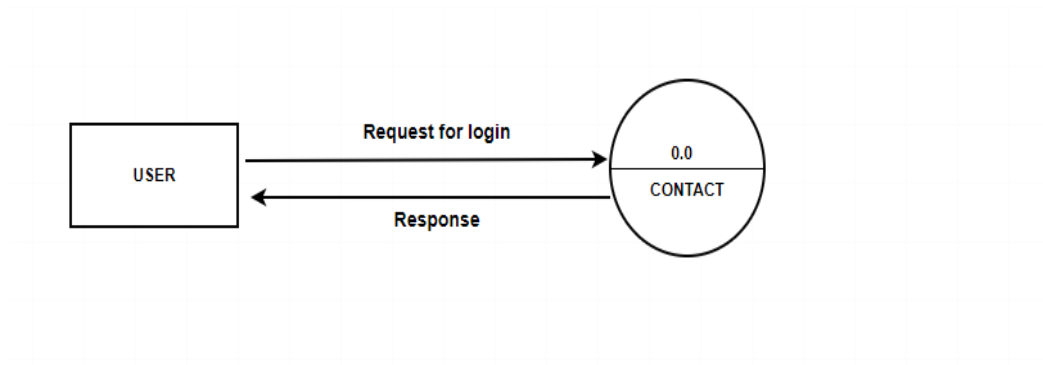


Figure 3: Zero Level DFD

3.1.4.2 One Level DFD

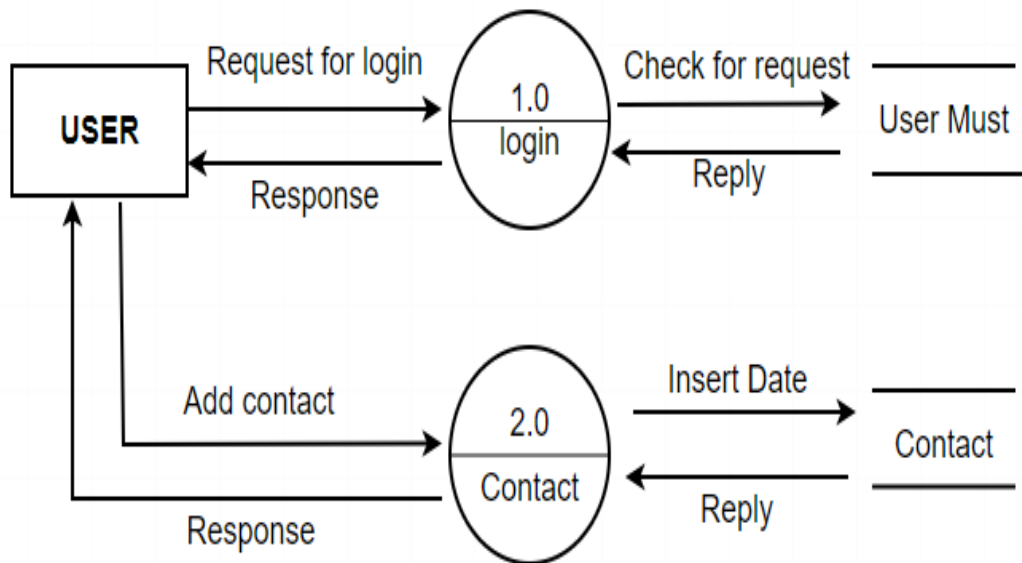


Figure 4: One Level DFD

3.1.4.3 Two Level DFD

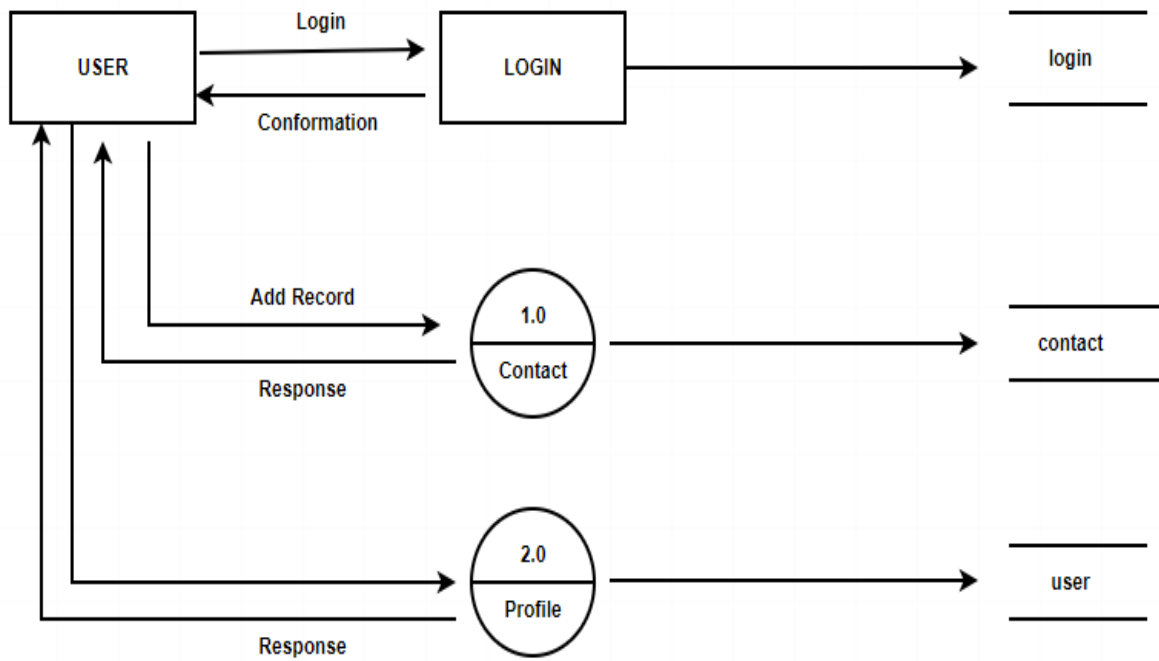


Figure 5: Two Level DFD

3.2 System Design

System design is the process of structuring the planned system. It is the way to visualize the concepts of system that how it works. It defines the graphical format or representation of system model process. To have complete design of project we must have architectural design, database schema design, interface design and physical DFD.

3.2.1 Architectural Design

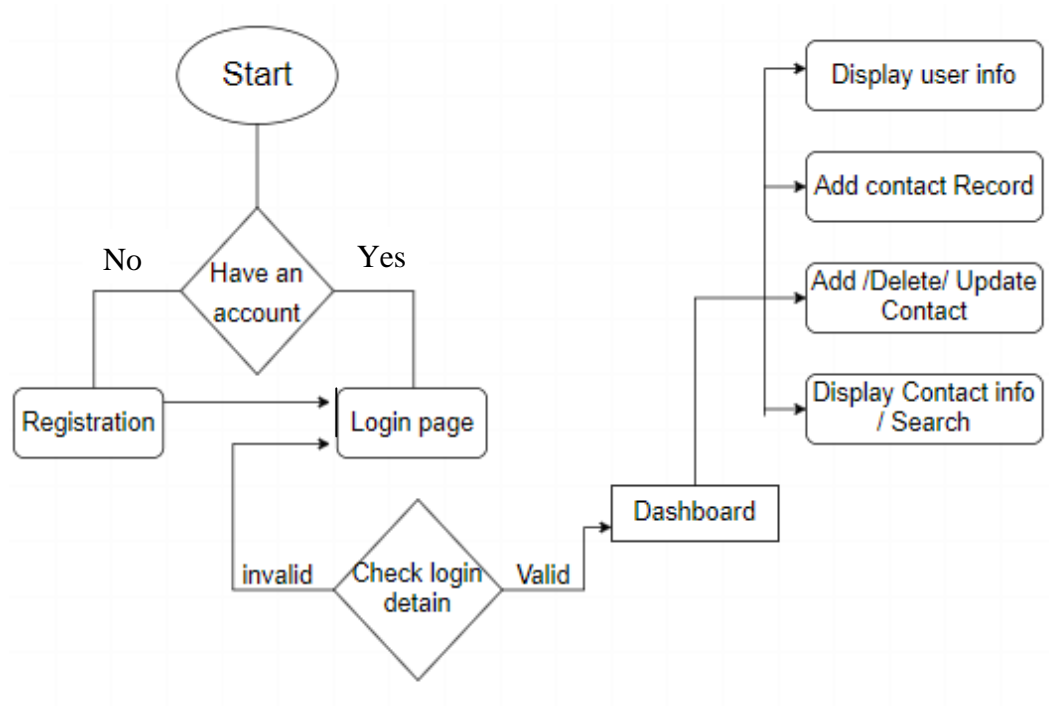


Figure 6: Architectural Design

3.2.2 Database Schema Design

Schema is the collection of database created for the project. It determines the simplest form of data flow inside the project. It contains the databases and tables inside the database. It covers the whole project diagram of data flow.

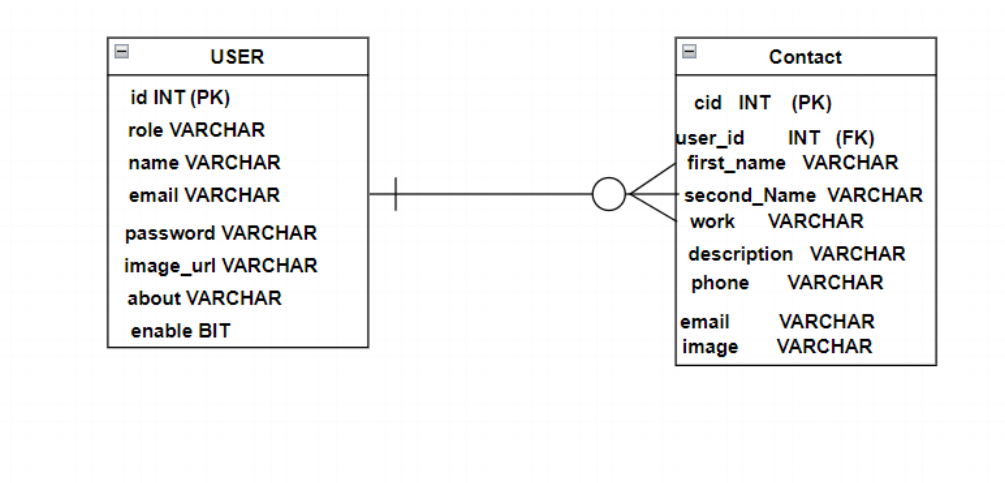


Figure 7: Schema Diagram

3.2.3 Interface Design

Interface is the medium to interact with software. Interface should be designed in such a way that user must feel comfortable to feel it and contains the most of necessary information. Interface Structure Design is the process of structuring the interface in raw format. It is not the actual interface but it is the frame to develop the interface.

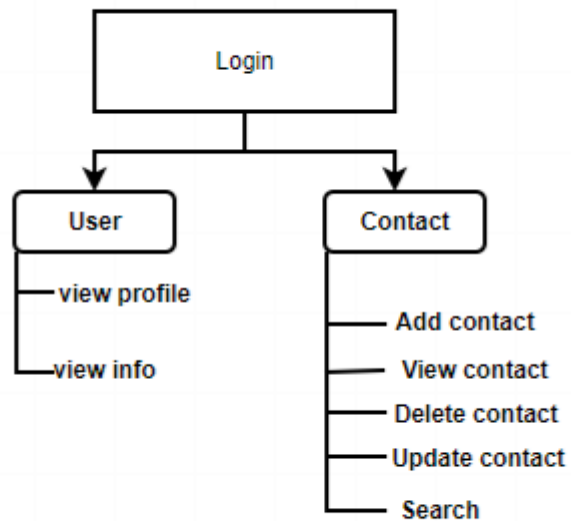


Figure 8: User Interface Structure Diagram

3.2.4 Physical DFD

A physical data flow diagram show how the system will be implemented, including the hardware, software, file, and people in the system. It is developed such that the processes describe in the logical data flow diagrams are implemented correct to achieve the goal of the business.

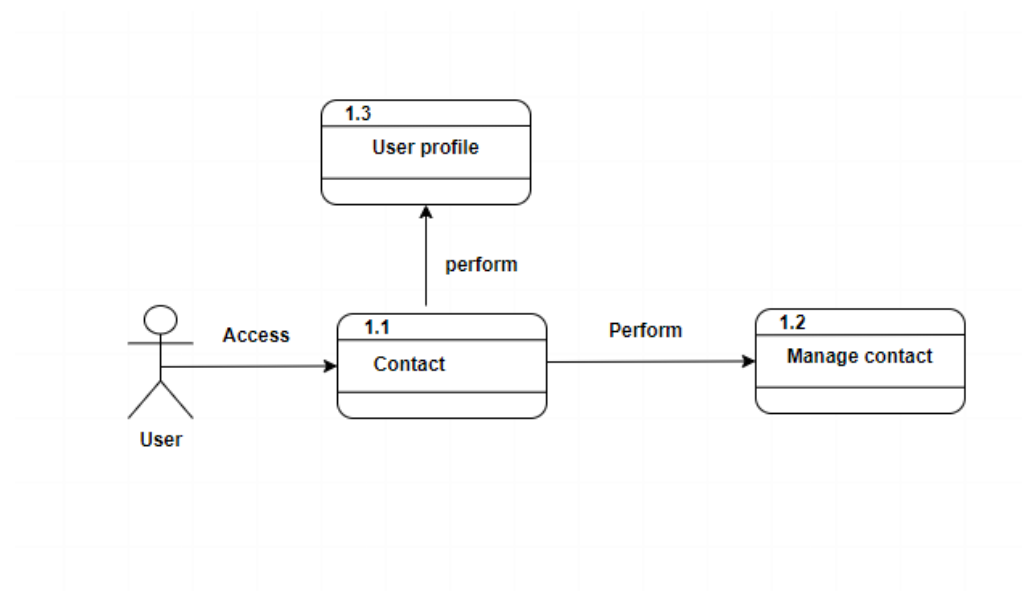


Figure 9: Physical DFD

Chapter 4: Implementation and Testing

After planning and designing phase we must implement the project and test it accordingly. There are different types of testing; unit testing and system testing.

4.1 Implementation

Implementation is the process of writing codes for the designed system to run in the hardware over the operating system. It consist the techniques and tools to write the program and use it. We implement the developed software here and check it. Modules are created and implemented by unit to unit. After the completion of whole project then only whole project is implemented.

4.1.1 Tools Used

Different types of tools are used while implementing the project; CASE Tools, Programming Tools and Database Platforms. CASE tools are used to design the system as well. To generate the code automatically we use code generator. In this project we use the following tools, languages and database platforms.

Drawing tools

We use draw.io **Invalid source specified.** to draw the different figures while designing the system. We draw different DFD and ER Diagrams, schema diagrams, interface diagrams, architectural diagrams and physical DFD. It makes the project easy to represent in graphical format.

Programming Languages and Dependencies

This project is developed in spring boot framework. Html and bootstrap for front end and JAVA is for back end. I use JRE v1.8 to compile the program and run. This is web application software developed for general purpose of users. Spring Tool Suite is used as Java Development Kit. Window builder is used to design the graphical user interface and that automatically generate the code makes easy to program.

For database, we use MYSQL Database version 8.0.26 to store the data in backend. It has its own database server to serve the data according to the request sent by the user using JDBC driver of JAVA programming language.

Dependencies which are used in the project:-

- Spring-boot-starter
- Spring-boot-starter-web
- Spring-boot-starter-thymeleaf
- Mysql-connector-java
- Hibernate-validator
- Spring-boot-devtools
- bootstrap

4.1.2 Implementation details of modules

There are many panels used in this Web application program for user convenience. Those panels have different functions inside it. There are total nine modules in this project. They are:

1. Contact module:

It provides the interface to enter the contact record of the user. It also Display the record entered and helps search of different contact.

2. Dashboard Module:

It displays the buttons to navigate to any another modules and act as Home page of software.

3. Login Module:

It is the module used to get inside the application software. It requests the user to input the user name and password to get access inside the software.

4. Database Module:

It is the class to establish the connection between MYSQL server and user interface or application. It is used all over the program to make connection to database.

4.2 Testing

Testing is the process of determining the faults of programs. It is actually done to check different conditions and scenarios that may occur in the program while performing any kind of operation. It is used also for quality assurance. All the programs that are developed should be tested properly. So, testing takes long time rather than development. Critical condition should be applied while testing to make software run in critical condition. There are different types of testing. Here we perform only two types of testing; unit testing and system testing.

4.2.1 Test cases for unit testing

It is basically the testing of modules inside the project. Certain cases are test under it to make sure of same problem overlaps or not.

Some test cases are given below:

Login Module:

Table 1: Login module test

Test ID	Test Scenario	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail
T01	Login by User	Enter username and password	username: sandip Passowrd: sandip@123	Dashboard should be opened	As Expected	Pass
T02	Login By other with wrong credentials	Enter username and password	username: abcde Passowrd: 12345	Display message and stay in same page	As Expected	Pass

Contact Modules:

Table 2: Contact module test

Test ID	Test Scenario	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail
T03	Adding contact records	Enter name nickname phone num Email work description	sandip sndp 9800000000 Sndp1@g.c Doctor Good doc	New record should be added and displayed in table	As excepted	Pass
T04	Adding Contact records by blank fields	Enter name nickname phone num Email work discription	(blank) ramu 980000000 Ramu1@ business ramu busin..	Dialog box should be displayed with "please enter your name"	As excepted	Pass
T05	Searching details by any credentials of contact record	Enter anything that to be searched from contacts T06record	Sandip	Display all the records where name=sandip	As excepted	Pass
T06	Deleting the selected contact	select the contact to be deleted	sndip sndp 980000000 sndp@12 doctor sndp good doctor	Deleted record should be removed from table	As Excepted	Pass
T07	Updating the Selected Contact	Select the contact to be edit	Ram Ramu 980000000 ram@12 doctor sam good doctor	Updated record should be displayed over the previous record	As Excepted	Pass

Account info module test:

Table 3: Account info Module Test

Test ID	Test Scenario	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail
T12	Account Register	Name email password about Image	sandip sandp@13 pas@123 abcd.. img	On clicking profile display the Profile of each user	As expected	Pass

4.2.2 Test Cases for System Testing

System testing is the process of checking the whole system compatibility. It is done after completing the final project after unit testing. After integrating all the units in system the testing is done to find out whether it could run or not. There are some cases of system testing are:

Table 4: System Test

Test ID	Test Scenario	Test Steps	Test Data	Expected result	Actual Result	Pass/Fail
ST01	<ul style="list-style-type: none"> valid login credentials loading dashboard loading different windows on clicking button on dashboard displaying accurate data in tables after clicking back button loading dashboard and dispose the current page 	Enter valid login Credentials Check dashboard Check Different windows Check Table data Check Back button	Valid details click click click click	Login successful load dashboard load different windows display accurate data redirect to dashboard window	As expected	Pass

Chapter 5: Conclusion and Future Recommendation

5.1 Lesson Learnt/Outcome

While developing this project a lot of things happened. Different types of problems arises, challenges faced and a lot of hard work is done. From zero level to high level of development activities; lot of experience is gained. Some of the lessons learn are given below:

- High level of analysis is necessary to design and develop the project
- Accurate requirements should be collected to get the maximum productivity
- Simple and clear design should be done
- Good approach of programming should be followed to make it reliable
- Professional skills are most important factor

Some outcomes of the project are given below:

- It consume less time in record keeping
- Searching becomes more easier
- Easy to get accurate data
- Easy to maintain the contact details

5.2 Conclusion

I conclude that, this web application software is the basic requirements of each and every normal person to track their contact details remotely. This software contains most basic things that help in accuracy of the result. These types of web applications helps to Digitalized the whole country and play the vital role in development.

5.3 Future Recommendations


This is the basic application only. It can be expand further to any extend on requirement. Locations Tracking etc..It helps to fully digitalize the any company.

Appendices

Screenshots

SMART CONTACT MANAGER

HOME CONTACT US Register Login Dashboard



Register here !!

Your Name

Your Email

Your Password

☐ Accept terms and conditions

No file chosen

SMART CONTACT MANAGER

HOME CONTACT US Register Login Dashboard

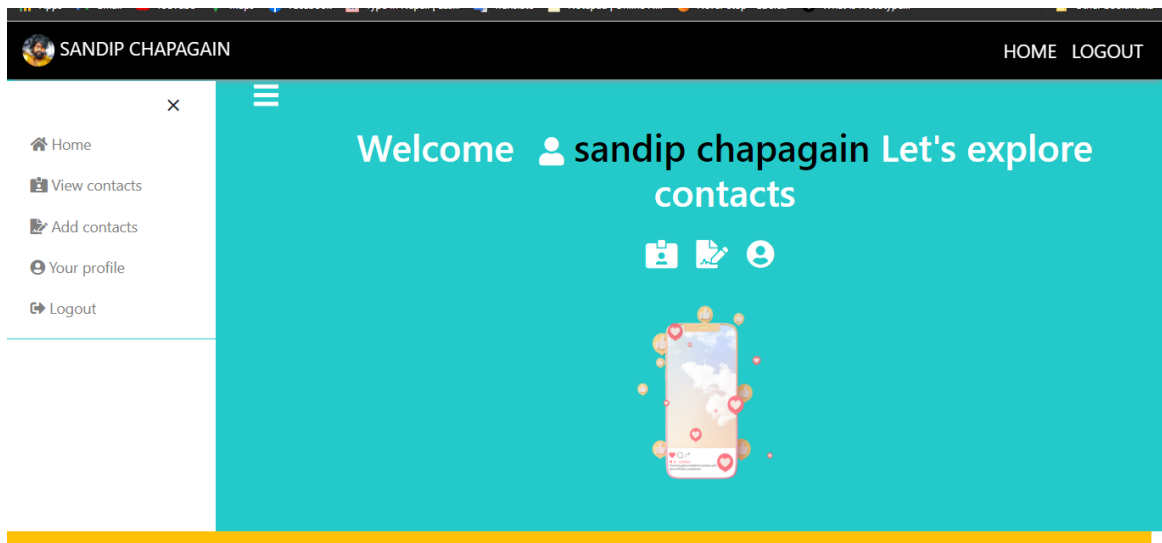
Login

Username:

Password:

Remember me ☐

[Register here](#)



The screenshot shows the "Add Contact" page of the same web application. The layout is consistent with the Home page. The main content area has a white background with the title "Add Contact". Below the title are five input fields, each with a small icon on the left: "Enter First Name" (plus icon), "Enter Second Name" (plus icon), "Enter Phone number" (phone icon), "Enter Email" (email icon), and "Enter your work here" (briefcase icon). Below these fields is a larger text area labeled "Enter description here". At the bottom, there is a section titled "Select Profile Image" with a "Choose File" button and the text "No file chosen". A "Save Contact" button is located at the bottom right of the form.

SANDIP CHAPAGAIN
 HOME LOGOUT

Home
 View contacts
 Add contacts
 Your profile
 Logout

Your Contacts

#ID	Name	Email	Phone	Action
SCM20205	hari	hari123@gmail.com	9816032025	
SCM20206	shyam	shyamu3@gmail.com	98150101010	
SCM20207	sonikshya	soni12@gmail.com	980000000000	

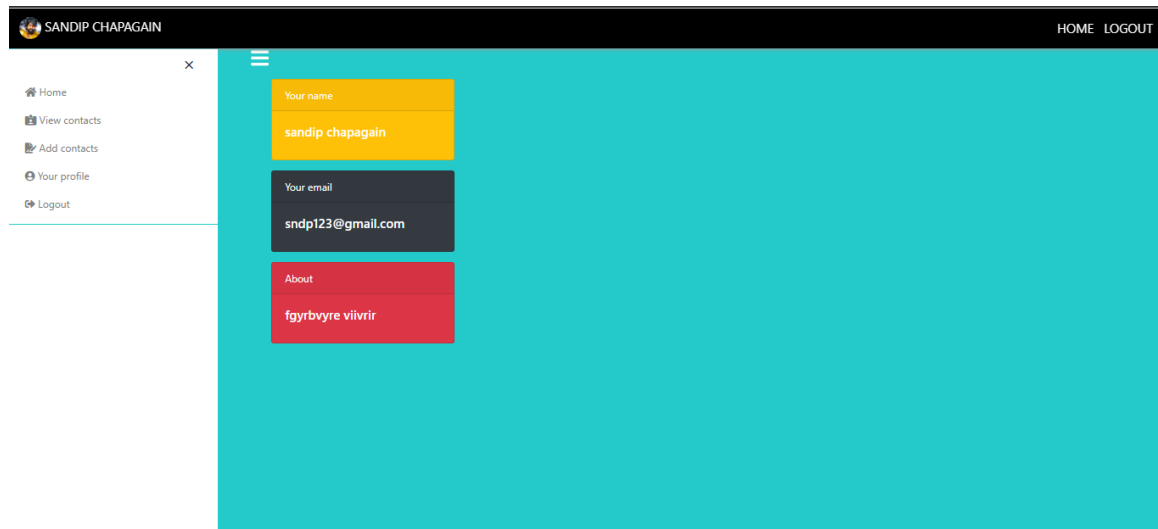
SANDIP CHAPAGAIN
 HOME LOGOUT

Home
 View contacts
 Add contacts
 Your profile
 Logout

hari

#ID5
 Emailhari123@gmail.com
 Phone9816032025
 workhacker

he is hacker



Source code

```
package com.smart.entities;

import java.util.ArrayList;
import java.util.List;
import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.OneToOne;
import javax.persistence.Table;
import javax.validation.constraints.NotBlank;
import javax.validation.constraints.Size;

@Entity
@Table(name="USER")
public class User {

    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;

    @NotBlank(message = "Name field is required")
    @Size(max = 20, min = 4, message = "min 4 and max 20 characters are allowed
!")

    private String name;

    @Column(unique = true)
    private String email;

    private String password;

    private String role;

    private boolean enabled;
```

```

private String imageUrl;

@Column(length = 500)

private String about;


@Column(name = "verification_code", updatable = false)
private String verificationCode;


@OneToMany(mappedBy = "user", cascade = CascadeType.ALL,
orphanRemoval = true)

private List<Contact> contacts = new ArrayList<>();


public User() {
    super();
    // TODO Auto-generated constructor stub
}


public int getId() {
    return id;
}

public void setId(int id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getEmail() {
    return email;
}

```

```
public void setEmail(String email) {  
    this.email = email;  
}  
public String getPassword() {  
    return password;  
}  
public void setPassword(String password) {  
    this.password = password;  
}  
public String getRole() {  
    return role;  
}  
public void setRole(String role) {  
    this.role = role;  
}  
public boolean isEnabled() {  
    return enabled;  
}  
public void setEnabled(boolean enabled) {  
    this.enabled = enabled;  
}  
public String getImageUrl() {  
    return imageUrl;  
}  
public void setImageUrl(String imageUrl) {  
    this.imageUrl = imageUrl;  
}  
public String getAbout() {  
    return about;  
}
```

```

    public void setAbout(String about) {
        this.about = about;
    }

    public String getVerificationCode() {
        return verificationCode;
    }

    public void setVerificationCode(String verificationCode) {
        this.verificationCode = verificationCode;
    }

    public List<Contact> getContacts() {
        return contacts;
    }

    public void setContacts(List<Contact> contacts) {
        this.contacts = contacts;
    }

    @Override
    public String toString() {
        return "User [id=" + id + ", name=" + name + ", email=" + email + ",
password=" + password + ", role=" + role
        + ", enabled=" + enabled + ", imageUrl=" + imageUrl + ",
about=" + about + ", contacts=" + contacts
        + "]";
    }

}

```

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