A Project Report

on

Implementation of Bank Management System

Submitted in partial fulfillment of the
requirement for the award of the degree of

Bachelor of Technology in Computer Science and
Engineering

(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

Under The Supervision of
Mr. Dhruv Kumar
Assistant Professor
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Submitted By

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SCHOOL OF COMPUTING SCIENCE AND ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GALGOTIAS UNIVERSITY, GREATER NOIDA, INDIA

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SCHOOL OF COMPUTING SCIENCE AND ENGINEERING
GALGOTIAS UNIVERSITY, GREATER NOIDA

CANDIDATE'S DECLARATION

We hereby certify that the work which is being presented in the project, entitled **" Implementation of Bank Management System"** in partial fulfillment of the requirements for the award of the **BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING** submitted in the **School of Computing Science and Engineering** of Galgotias University, Greater Noida, is an original work carried out during the period of **JULY-2021 to DECEMBER-2021**, under the supervision of **Mr.Dhruv Kumar, Assistant Professor**, **Department of Computer Science and Engineering** of School of Computing Science and Engineering , Galgotias University, Greater Noida

The matter presented in the project has not been submitted by me/us for the award of any other degree of this or any other places.

<div align="right">

AMAN HAIDER 19SCSE1010528
PRASHANT GOEL 19SCSE1010808

</div>

This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

<div align="right">

Supervisor (Mr.Dhruv Kumar, Assistant Professor)

</div>

ACKNOWLEDGEMENT

The Final Thesis/Project/ Dissertation Viva-Voce examination of **AMAN HAIDER 19SCSE1010528, PRASHANT GOEL 19SCSE1010808** has been held on _____and his/her work is recommended for the award of **BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING**.

Signature of Examiner(s)   **Signature of Supervisor(s)**

Signature of Project Coordinator   **Signature of Dean**

Date:

Place:

ABSTRACT

The Bank Account Management System is an Web site for keeping an individual's record in a bank. In this task I attempted to show the working of a financial record framework and cover the essential usefulness of a Bank Account Management System. To build up a venture for tackling monetary uses of a client in financial climate to support the requirements of an end banking client by giving different approaches to perform banking undertakings. Like wise to empower the client's work space to have extra functionalities which are not given under an ordinary financial undertaking. The Bank Account Management System embraced as a task depends on important innovations. The principle point of this undertaking is to create programming for Bank Account Management System. This task has been created to complete the cycles effectively and rapidly, which is beyond the realm of imagination with the manuals frameworks, which are overwhelmed by this product. This undertaking is created utilizing Java Creating and overseeing prerequisites is a test of IT, frameworks and item improvement projects or in fact for any movement where you need to deal with a legally binding relationship. Association need to successfully characterize and oversee necessities to guarantee they are addressing requirements of the client, while demonstrating consistence and remaining on the timetable and inside spending plan. The effect of an ineffectively communicated necessity can free a business once again from consistence or even reason injury or demise. Prerequisites definition and the executives is a movement that can convey a high, quick profit from speculation. The venture dissects the framework necessities and afterward concocts the prerequisites particulars. It contemplates other related frameworks and afterward concoct framework details. The framework is then planned as per determinations to fulfill the prerequisites. The framework configuration is then executed with HTML & CSS .

Table of Contents

List of Figures

CHAPTER-1
Introduction

1.1 Introduction

To develop a software for solving financial applications of a customer in banking environment in order to nurture the needs of an end banking user by providing various ways to perform banking tasks. Also to enable the users workspace to have additional functionalities which are not provided under a conventional banking software. In this project we are going to explain about Banking Management System. This project have facility to opening account, depositing and withdrawing money. management system is an application for maintaining a person's account in a bank. The system provides the access to the Bank customer to create an account, deposit/withdraw the cash from his account, also to view reports of all accounts present. The following presentation provides the specification for the system. In our bank management system user can check his balance online and he can also transfer money to other account online. In this Software you can keep record for daily Banking transactions. The main purpose of developing bank management system is to design an application, which could store bank data and provide an interface for retrieving customer related details with 100% accuracy.

This bank management system also allow user to add new customer account, delete account and user can also modify existing user account information. Using this system user can also search any individual account in few seconds. Using our bank management system user can also check any translation in any account. Our system also provide security check to reduce fraud.

1.2 Objective of our Project

The main object of this system is to provide a secure system. Our system is password protected and it only allows authorized user to access various functions available in the system. Our system will help the user to Locate any A/C wanted by the user. It will Reduced manual work as most of the work done by computer. As all the manual work will be done automatically so it will increase work speed and reduce time consumption to complete any bank related work. It will also increase the work efficiency as few employees can handle more customers. This will reduced the manual workload and give information instantly.

The Project Banking system has been made to automate the Banking system. Through this bank management system user can manage all bank account activity like deposit money, withdraw money, transfer money from one account to another account, online payment etc. Using this bank management system user can check his account detail online like balance in account, bank statement etc. The Administrator can check bank account with a login can work out with A/C holders of the bank can withdraw/ deposit cash / cheque /DD to/from their accounts. This system is also help bank user to create New account easily. The project makes a sincere effort to provide all the below-mentioned features to meet the requirements of the bank.

1.3 SCOPE OF THE PROJECT

In the future more software companies will hire this software program because now a days the need for the speed in the day-to-day life has become essential. As competition increases, companies by considering old version, they develop more efficient versions for individual success. In future we can make a link of this project with networking. We can also convert this project in Hibernate. Hibernate is a framework. It storage large amount of database. In future we can also add the facility to change the password and recovery the forgotten password.

CHAPTER-2

Hardware Requirement & Software Requirement

2.1PROJECT REQUIRED TOOLS

HARDWARE REQUIREMENT SPECIFICATION

PROCESSOR: i5

RAM:- 2 GB

HARD DISK: 1GB

SOFTWARE REQUIREMENT SPECIFICATION

FRONT END- HTML & CSS

BANK END- XAMPP

HTML

HTML is an acronym which stands for **Hyper Text Markup Language** which is used for creating web pages and web applications. Let's see what is meant by Hypertext Markup Language, and Web page. **Hyper Text:** HyperText simply means "Text within Text." A text has a link within it, is a hypertext. Whenever you click on a link which brings you to a new webpage, you have clicked on a hypertext. HyperText is a way to link two or more web pages (HTML documents) with each other.

Markup language: A markup language is a computer language that is used to apply layout and formatting conventions to a text document. Markup language makes text more interactive and dynamic. It can turn text into images, tables, links, etc.

CSS

Cascading **S**tyle **S**heets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs,variations in display for different devices and screen sizes as well as a variety of other effects.

CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

2.2 EXISTING SYSTEM

The existing system has got lot of intricacies within itself and need lot of human effort and paper works. All above the data need to be maintained on ledgers and maintaining this is a tedious and risky process. As the transactions increases, so the data too. So the task of maintaining them increases exponentially. To view a data may need lot of paper to be searched. However In the existing system the transactions are done only manually but in proposed system we have to computerize all the banking transaction using the software Banking system.

2.3 PROBLEMS WITH EXISTING SYSTEM

- Lack of security of data.
- More man power.
- Time consuming
- Consumes large volume of pare work.
- Needs manual calculations.

5

- No direct role for the higher officials.

- Damage of machines due to lack of attention.

2.4 PROPOSED SYSTEM

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

ADVANTAGES OF THE PROPOSED SYSTEM

The system is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations It has got following features

- Security of data.

- Ensure data accuracy's.

- Proper control of the higher officials.

- Reduce the damages of the machines.

- Minimize manual data entry.

- Minimum time needed for the various processing.

- Greater efficiency.

- Better service.

- User friendliness and interactive.

- Minimum time required.

CHAPTER-3

System Design

Front-End Design
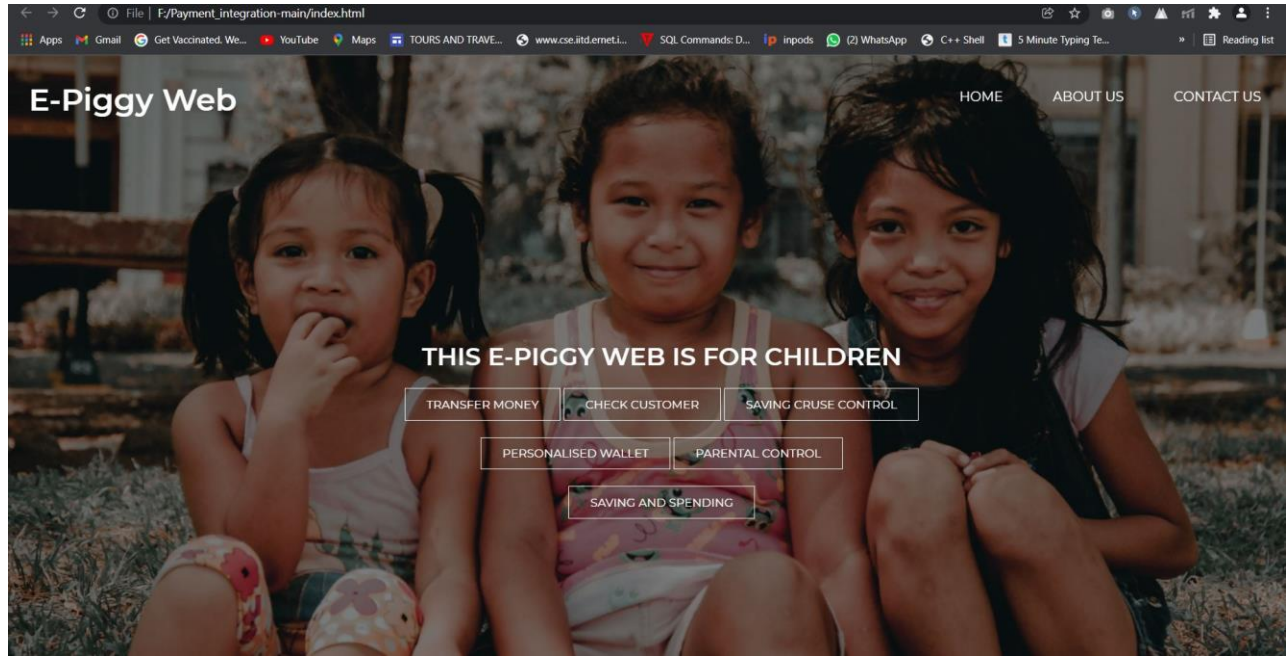
Home page
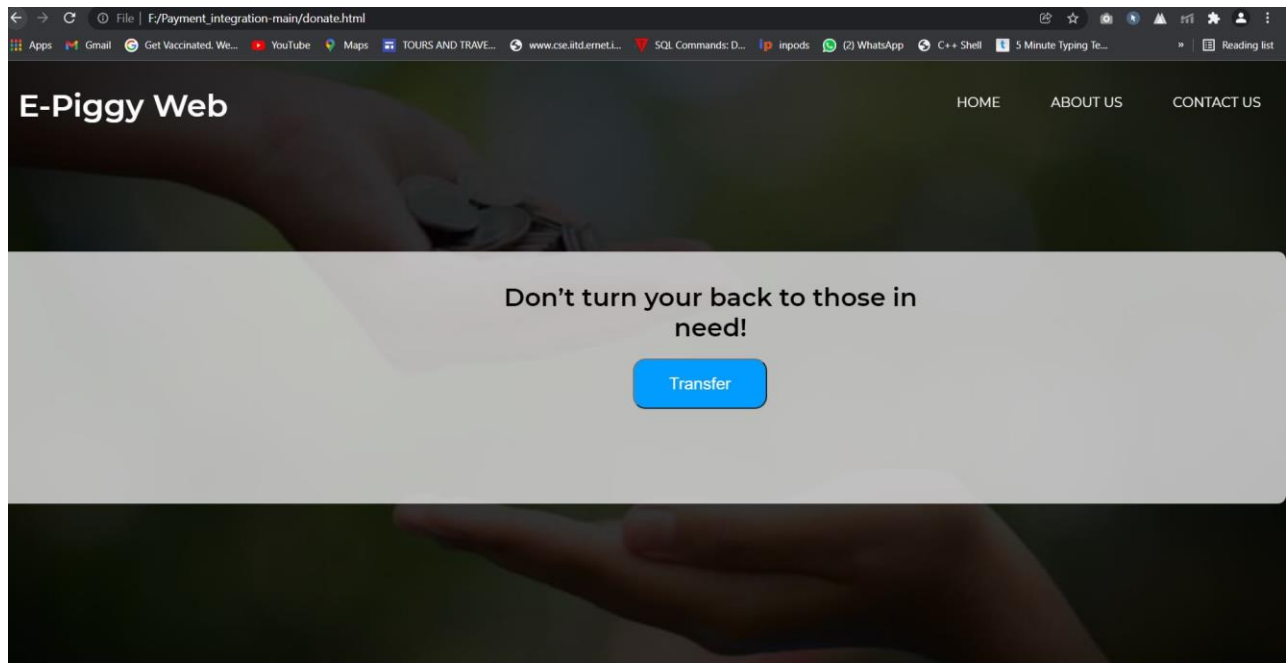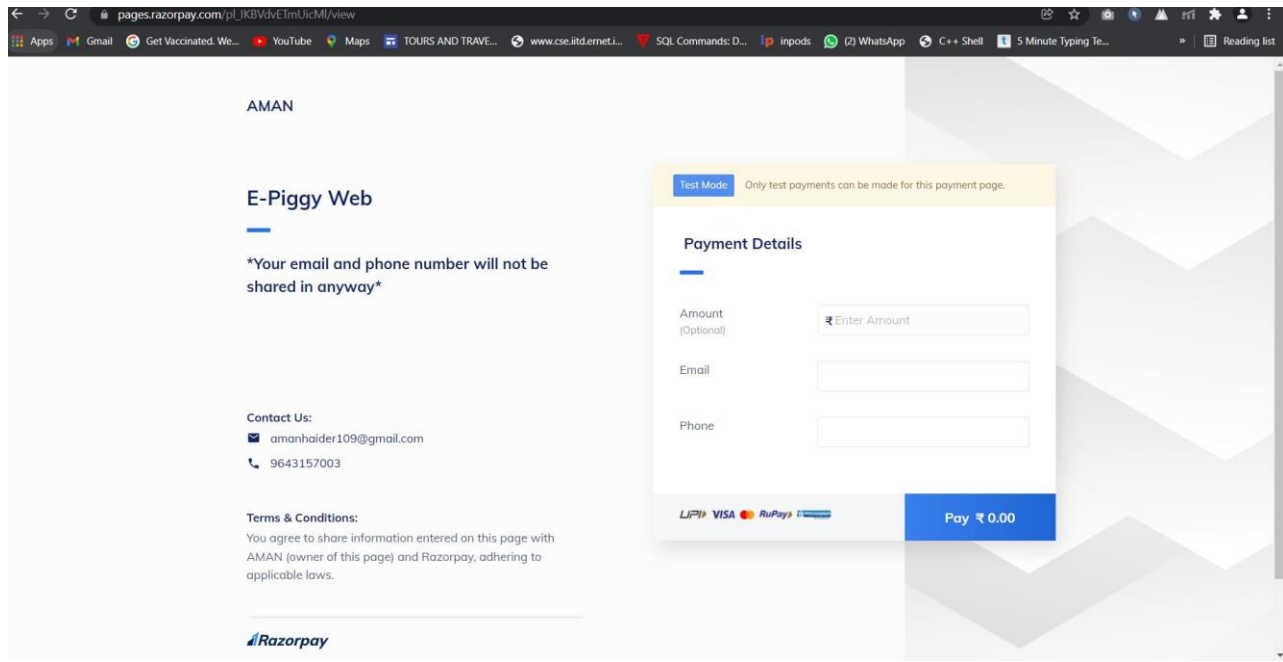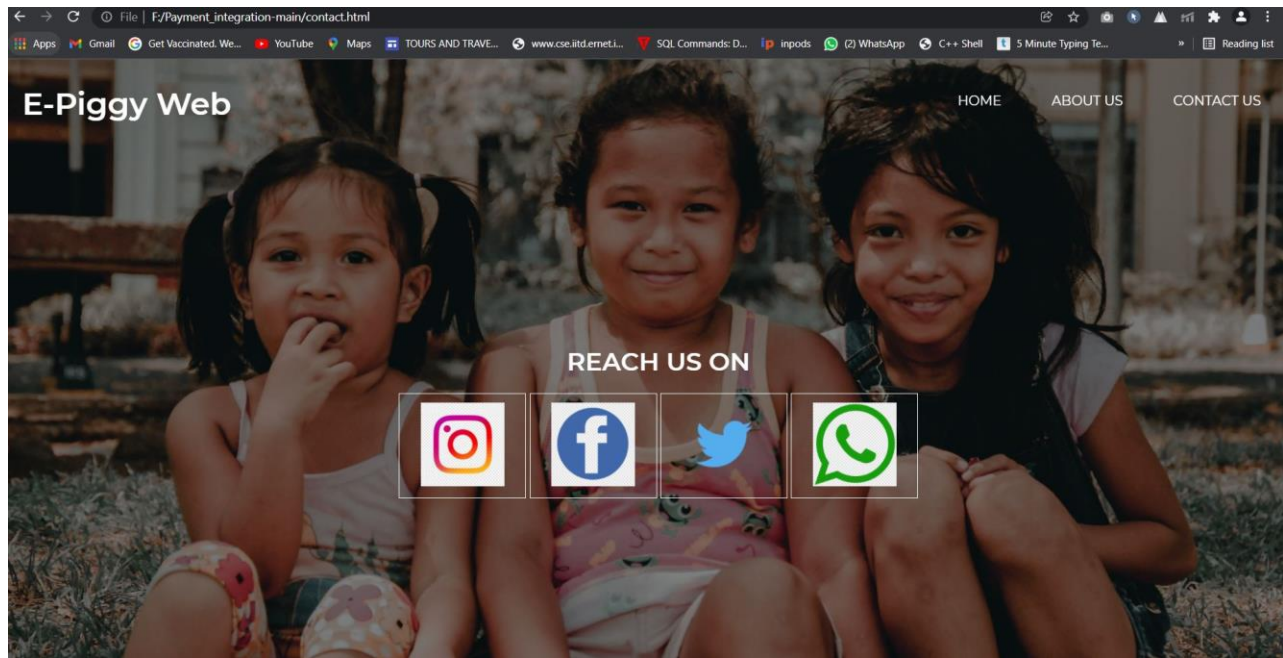
Gateway of the Project

Contact Us

Architecture Diagram For Proposed Method

2.6 Data Flow Diagram

```
                          ┌────────────────────┐
                          │   Transfer Money   │
                          └────────────────────┘
                                    ▲
                                    │
                                    ▼
┌──────────────────┐                              ┌──────────────────┐
│  Saving And      │                              │  Check Customers │
│  spending        │                              └──────────────────┘
└──────────────────┘        ╭───────────╮
                            │           │
┌──────────────────┐        │ E-gullak  │         ┌──────────────────┐
│ Parental Control │◄──────►│   web     │◄───────►│ Saving cruse     │
└──────────────────┘        │           │         │ Control          │
                            ╰───────────╯         └──────────────────┘
                                    ▲
                                    │
                                    ▼
                          ┌────────────────────┐
                          │ Personalized wallet│
                          └────────────────────┘
```
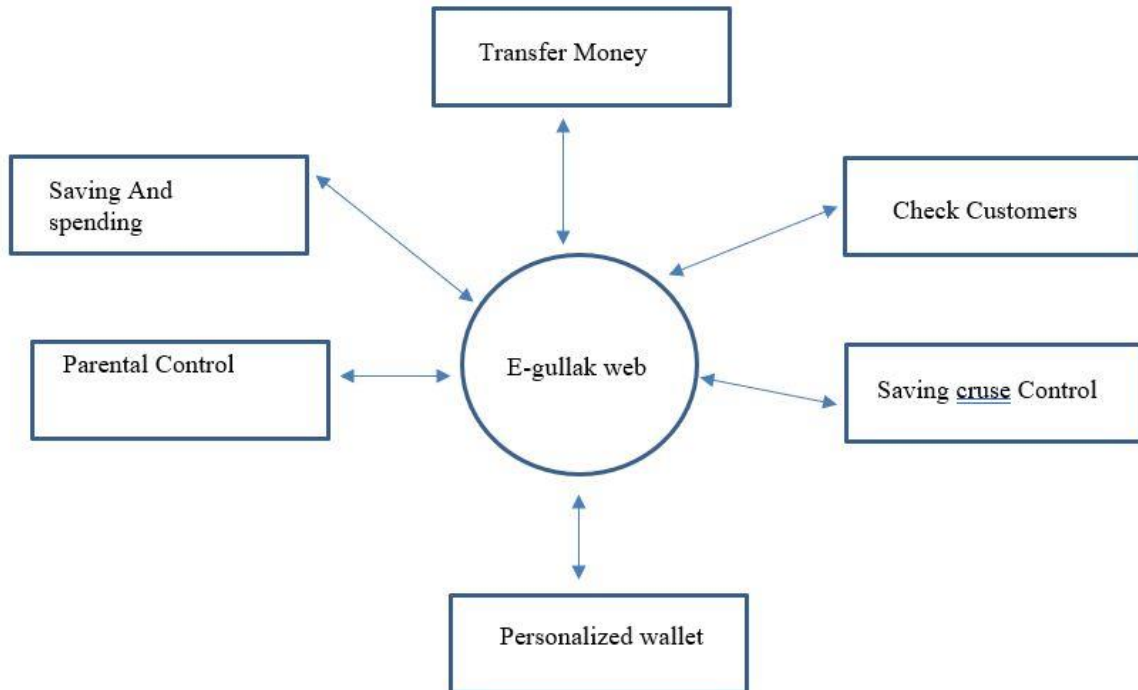
Modules

- **Transfer Money :-** *Transfer Money* enables the user to initiate payment from his bank account to any other bank account without visiting the bank.

- **Check Customers:-** In this module you can check the customers

- **Saving Cruse Control :-** With the help of this feature our teen age users easily achieve saving target accounting to price .

- **Parental Control:-** Parents also view and control of all transactions saving wallet and spend wallet.

- **Personalized wallet:-**

- **Saving and Spending Wallet:-** Saving wallet use for saving money as well as for cruise wallet and Spend wallet is use for spending purpose   eg :- Zomato , e-commerce etc

CHAPTER-4
Source Code of the Project

Source Code HTML

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Sparks Donation</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="index.css">
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@400;600&display=swap"
rel="stylesheet">
  </head>
  <body>
    <header class="header" style="margin-top: 0px;">
      <div class="heading">
        <h3 style="margin-left: 5px; margin-top: 20px;"><a href="index.html" class="logo">E-
Piggy
        Web</a></h3></div>
      <input class="menu-btn" type="checkbox" id="menu-btn" />
      <label class="menu-icon" for="menu-btn"><span class="navicon"></span></label>
      <ul class="menu">
        <li><a href="index.html">HOME</a></li>
        <li><a href="about.html">ABOUT US</a></li>
        <li><a href="contact.html">CONTACT US</a></li>
      </ul>
      <div class="welcome" style="position: relative;">
        <h3 style="color:White;"><br>This E-Piggy Web is for Children</h3>
        <a href="donate.html">Transfer Money</a>
        <a href="customer.html">check customer</a>
        <a href="customer.html">Saving Cruse Control</a>
        <a href="customer.html">Personalised wallet</a>
        <a href="customer.html">Parental Control</a>
        <a href="customer.html">Saving and Spending</a>
      </div>
    </header>
</body>
</html>
```

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Sparks Donation</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="donate.css">
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@400;600&display=swap"
rel="stylesheet">
  <!--    <style font-family: 'Montserrat', sans-serif;></style> -->


  </head>
  <body>
    <header class="header" style="margin-top: 0px;">
      <div class="heading">
        <h3 style="margin-left: 5px; margin-top: 20px;"><a href="index.html" class="logo">E-
Piggy Web</a></h3>
      </div>
      <input class="menu-btn" type="checkbox" id="menu-btn" />
      <label class="menu-icon" for="menu-btn"><span class="navicon"></span></label>
      <ul class="menu">
       <li><a href="index.html">HOME</a></li>
       <li><a href="about.html">ABOUT US</a></li>
       <li><a href="contact.html">CONTACT US</a></li>

      </ul>

      <div class="container donate">
        <div class='welcome' style="position: relative">
          <h3 style="color:black;"> <br>Don't turn your back to those in need!</h3><br>
          <button class="button" style="background-color: #009CFF; width: 160px;height:
60px;border-radius:15px; margin-left:125px;font-size:20px;">
            <a href="https://rzp.io/l/t79qw25" class="button">Transfer</a>

          </button>

        </div>
      </div>
    </header>
</body>
</html>
<!DOCTYPE html>
<html>
  <head>
    <title>Sparks Donation</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```html
<link rel="stylesheet" href="about.css">
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@400;600&display=swap"
rel="stylesheet">
    <!-- <style font-family: 'Montserrat', sans-serif;></style>
-->

  </head>
  <body>
    <header class="header" style="margin-top: 0px;">
      <h3 style="margin-right:10 px; margin-top: 20px;"><a href="about.html" class="logo">E-
Piggy Web</a></h3>
      <input class="menu-btn" type="checkbox" id="menu-btn" />
      <label class="menu-icon" for="menu-btn"><span class="navicon"></span></label>
      <ul class="menu">
       <li><a href="index.html">HOME</a></li>
       <li><a href="about.html">ABOUT US</a></li>
       <li><a href="contact.html">CONTACT US</a></li>
      </ul>
      <div class="container donate about">
       <img src="donation.png" alt="">
       The emergence of a large population of orphaned youth in sub-Saharan Africa is due to
the natural maturity of orphaned children.
       Research indicates that orphaned youth face more negative psychosocial challenges than
their younger counterparts do.
       Furthermore, these challenges are intensified for early school leavers. The present study
shows that the orphans and OVCA in institutional homes are vulnerable to behavioral and
emotional problems.
       When you give to Save the Children, every Rupee goes straight to our mission to provide
lifesaving relief to children.
       With your support, we can continue our work to keep children around the world healthy,
educated and safe.
      </div>
    </header>
</body>
</html>
```

CSS CODE
```css
* {
      margin: 0;
      padding: 0;
}
body {
   font-family: 'Montserrat';

}
body h2{
   color: #fff;
```

```css
        }
        .logo h2{
           margin-top: 20px;
           margin-left: 60px;
        }
        header {
                background: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)), url("Children1.jpg");
                height: 100vh;
                -webkit-background-size: cover;
                background-size: cover;
                background-position: center center;
                position: relative;
        }
        .logo {
                float: left;
        }
        .logo img {
                width: 100%;
        }
        .welcome{
                position: absolute;
                width: 650px;
                height: 300px;
           margin: 20% 30%;
                text-align: center;
        }
        .welcome h3 {
                text-align: center;
                color: #fff;
                text-transform: uppercase;
                font-size: 30px;
        }
        .welcome h3 span {
                color: #00fecb;
        }
        .welcome a {
                border: 1px solid #fff;
                padding: 10px 25px;
                text-decoration: none;
                text-transform: uppercase;
                font-size: 14px;
                margin-top: 20px;
                display: inline-block;
                color: #fff;
        }
        .welcome a:hover {
                background: #fff;
                color: #333;
```

```css
     }
/*.pattern {
    height: 40vh;
    width: 100vw;

    background-image: repeating-linear-gradient(
        32deg,
        transparent,
        transparent 2px,
        black 5px,
        black 5px,
        transparent 4px
        );*/
  /*    background-size: 6px 6px; */
  }
/*resposive*/

@media (max-width:600px) {

  .heading h3{

    text-align: center;
  }

        .logo {

                width: 50%;
    margin-left: 60px;


        }
        .welcome{
                width: 100%;
                height: auto;
                margin: 30% 0;
        }
        .welcome h1 {
                font-size: 30px;
  }
}
body {
    margin: 0;
    font-family: Montserrat;
  }

  a {
    color: #fff;
  }
```

```css
/* header */

.header {
  background-color: #fff;
  box-shadow: 1px 1px 4px 0 rgba(0,0,0,.1);
  margin-top: 20px;
  position: fixed;
  width: 100%;
  z-index: 3;
}

.header ul {
  margin: 0;
  padding: 0;
  list-style: none;
  overflow: hidden;

}

.header li a {
  display: block;
  padding: 10px 20px;
  text-decoration: none;
}

.header li a:hover,
.header .menu-btn:hover {
  background: #fff;
      color: #333;
}

.header .logo {
  display: block;
  float: left;
  font-size: 2em;
  padding: 10px 20px;
  text-decoration: none;
}

/* menu */

.header .menu {
  clear: both;
  max-height: 0;
  transition: max-height .2s ease-out;
}

/* menu icon */
```

```css
.header .menu-icon {
  cursor: pointer;
  display: inline-block;
  float: right;
  padding: 28px 20px;
  position: relative;
  user-select: none;
}

.header .menu-icon .navicon {
  background: #fff;
  display: block;
  height: 2px;
  position: relative;
  transition: background .2s ease-out;
  width: 18px;
}

.header .menu-icon .navicon:before,
.header .menu-icon .navicon:after {
  background: #fff;
  content: '';
  display: block;
  height: 100%;
  position: absolute;
  transition: all .2s ease-out;
  width: 100%;
}

.header .menu-icon .navicon:before {
  top: 5px;
}

.header .menu-icon .navicon:after {
  top: -5px;
}

/* menu btn */

.header .menu-btn {
  display: none;
}

.header .menu-btn:checked ~ .menu {
  max-height: 240px;
}
```

```css
.header .menu-btn:checked ~ .menu-icon .navicon {
  background: transparent;
}

.header .menu-btn:checked ~ .menu-icon .navicon:before {
  transform: rotate(-45deg);
}

.header .menu-btn:checked ~ .menu-icon .navicon:after {
  transform: rotate(45deg);
}

.header .menu-btn:checked ~ .menu-icon:not(.steps) .navicon:before,
.header .menu-btn:checked ~ .menu-icon:not(.steps) .navicon:after {
  top: 0;
}

/* 48em = 768px */

@media (min-width: 48em) {
  .header li {
    float: left;
  }
  .header li a {
    padding: 20px 30px;
  }
  .header .menu {
    clear: none;
    float: right;

    max-height: none;
  }
  .header .menu-icon {
    display: none;
  }

}
* {
      margin: 0;
      padding: 0;
}
body {
  font-family: 'Montserrat';

}
```

```css
body h2{
   color: #fff;
}
.logo h2{
   margin-top: 20px;
   margin-left: 60px;
}
header {
      background: linear-gradient(rgba(0, 0, 0, 0.8), rgba(0, 0, 0, 0.8)),
url(https://img.etimg.com/thumb/msid-63293846,width-300,imgsize-49958,,resizemode-4,quality-
100/donation-charity.jpg);
      height: 100vh;
      -webkit-background-size: cover;
      background-size: cover;
      background-position: center center;
      position: relative;
}
.logo {
      float: left;
}
.logo img {
      width: 100%;
}
.welcome{
      position: absolute;
      width: 650px;
      height: 300px;
   margin: 20% 30%;
      text-align: center;
}
.welcome h3 {
      text-align: center;
      color: #fff;
      text-transform: uppercase;
      font-size: 30px;
}
.welcome h3 span {
      color: #00fecb;
}
.welcome a {
      border: 1px solid #fff;
      padding: 10px 25px;
      text-decoration: none;
      text-transform: uppercase;
      font-size: 14px;
      margin-top: 20px;
      display: inline-block;
      color: #fff;
}
```

```css
.welcome a:hover {
        background: #fff;
        color: #333;
}
.about {
 display: flex;
 text-align: center;
}
.container {
 margin-left: auto;
 margin-right: auto;
 margin-top:230px;
 text-align: center;
}

.donate {
 padding: 60px;
 background-color: rgba(228, 228, 228, 0.8);
 border-radius: 10px;
 text-align: center;
}

@media (max-width:600px) {

  body{
     height:auto;
  }
        .logo {

                width: 80%;
  text-align: center;
  margin-left: 80px;

 }
        .welcome{
                width: 100%;
                height: auto;
                margin: 30% 0;
        }
        .welcome h1 {
                font-size: 30px;
 }

.header h3{
 width:160px;
 margin-left: 20px;
}
```

CHAPTER-5

<u>CONCLUSION</u>

The Bank Management system is a web to keeps the day by day tally record as a complete banking. It can keep the information of Account type, account opening form, Deposit, Withdrawal, and Searching the transaction, Transaction report, Individual account opening form, Group Account.

This project is developed to the needs of a user in a banking sector by embedding all the tasks of transactions taking place in a bank. Future version of this project will still be much enhanced than the current version. Writing and depositing checks are perhaps the most fundamental ways to move money in and out of a checking account, but advancements in technology have added ATM and debit card transactions. Banks are providing internet banking services also so that the customers can be attracted. By asking the bank employs we came to know that maximum numbers of internet bank account holders are youth and business man. Online banking is an innovative tool that is fast becoming a necessity. It is a successful strategic weapon for banks to remain profitable in a volatile and competitive marketplace of today

REFERENCES

- **Veneeva, V. (2006), "E-Banking (Online Banking) and Its Role in Today's Society"**

- **www.youtube.com**

- **Fundamentals of database systems by (Elmasri Navathe, 2000)**

- **www.github.com**

- **Anju Dagar, "Online Banking : Benefits and Related Issues", International Journal of Commerce, Business and Management**

- Mahmood Shah, "E-Banking Management: Issues, Solutions, and Strategies", 2009.

- **http://developer.android.com/guide/index.html**

- **Dr. Geeta Sharma, "Study of Internet Banking Scenario in India", International Journal of Emerging Research in Management &Technolog**

- **www.youtube.com**

- :**https://en.wikipedia.org/wiki/Online_banking**

- **www.github.com**

- **http://developer.android.com/guide/index.html**

- **http://developer.android.com/guide/index.html**

- **http://developer.android.com/reference/packages.html**

- **http://docs.oracle.com/javase/6/docs/api/**

- **http://developer.android.com/guide/components/fundamentals.html**

- **http://docs.oracle.com/javase/tutorial/**

- **http://developer.android.com/guide/topics/ui/index.html**

- **http://android-developers.blogspot.com/**

- **http://developer.android.com/resources/faq/**

- **http://www.w3schools.comm**

- **http://www.freebanglatutorial.com**