

# **MME: MONEY MADE EASY**

## **A PROJECT REPORT**

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

**B. TECH**

**in**

**Computer Science & Engineering**

**by**

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**VIT<sup>®</sup>**  
**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

**School of Computer Science & Engineering**

**June 2020-21**

## DECLARATION BY CANDIDATES

We hereby declare that the project report entitled “**MME: MONEY MADE EASY**” submitted by us to VIT University, Vellore in partial fulfillment of the requirement for the award of the degree of **B.Tech.(CSE)** is a record of J component of project work carried out by me under the guidance of **Prof. Senthilkumar N.** We further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Place: Vellore

Signature of Candidates

Date: 5/6/21

Date: 5/6/21

Date: 5/6/21

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Ansh Chandarana

# **1. INTRODUCTION**

## **1.1 ABSTRACT**

This is a payments service, targeted at users in colleges and universities. In this website, activities start with MME automating a customer account, which allows personnel to create, update and maintain customer records. The MME software have enhanced the accuracy of accounts that tellers and other banking personnel process. This software performs customer transactions through a centralized data record system. Account management is the genesis and backbone of all banking information systems.

## **1.2 BACKGROUND**

The Traditional way of maintaining details of a user in a bank was to enter the details and record them. Every time the user needs to perform some change in account, we have to go to bank and perform the necessary actions, which may not be so feasible all the time. It may be a hard-hitting task for the users and the bankers too. So, it provides enhanced techniques for maintaining the required information up-to-date, which results in efficiency. Therefore, its management procedure is more challenging as regulatory system always is there to control the bank management is solved by it. Commercial or retail banks use what is known as core banking software which record and manage the transactions made by the bank's customers to their accounts. Online money transaction software is used by millions of users across hundreds or thousands of branches. This means that the software must be managed on many machines and be accessible by everyone. The core banking system is a major investment for a retail banks and maintaining and managing the system can represent a large part of the cost of running a bank. Thus, very useful in today's world. It allows you to bypass bank lines.

## **1.3 ORGANIZATION OF REPORT**

### **1. Introduction**

1.1 Abstract

1.2 Background

1.3 Organization of the Report

### **2. Overview and Planning**

2.1 Proposed System Overview

2.2 Hardware Requirements

2.3 Software Requirements

2.4 Project Schedule (Gantt chart)

### **3. System Implementation**

3.1 Code and/or Architecture Development

3.2 Test Results

### **4. Results and Discussion**

4.1 Output/Results

4.2 Discussion

### **5. Conclusion**

### **6. References**

## **2. OVERVIEW AND PLANNING**

### **2.1 PROPOSED SYSTEM OVERVIEW**

#### **DATA COLLECTION: -**

1. Create New Account: The customer profile details and the bank account details with the proof of the ownership of the bank account.
2. Login: Account holders can login in to the system using id and password. Thus, this is the secured login page for the customers in the website.
3. Transfer: This is the module to make fund transfer to bank account holders from the customer's specified bank account.
4. Transactions: This module displays the transactions made by the customer in with the transaction details.

#### **DATA VALIDATION: -**

Almost every field in the database which is sensitive that is responsible for some important changes are validated. Basically, we validate the field as such is numeric and the length if necessary.

So, while performing the transaction at faster rate user is going to face problems or can make any sort of blunder in the status, number, name, account detail and other field so it can be taken care with using validation.

Mostly the validation is carried out in the lost focus, click, change and other similar events where the entered value is compared with the one stored in the database and if there is duplication to occur or no match with the database then the entry is to be removed and user is prompt to re-enter it.

## 2.2 HARDWARE REQUIREMENTS

Operating System Windows 7, 8, 10

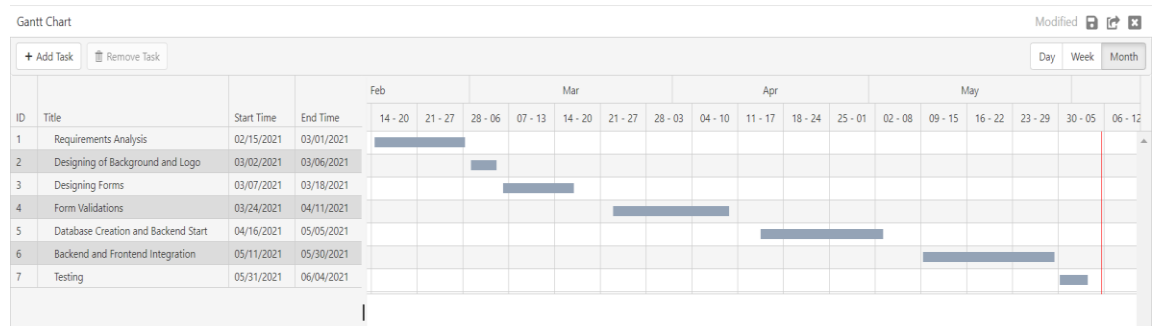
## 2.3 SOFTWARE REQUIREMENTS

Front End/Language HTML, CSS, JAVASCRIPT

Back End/Database PHP, MYSQL

Additional Tools XAMP Server

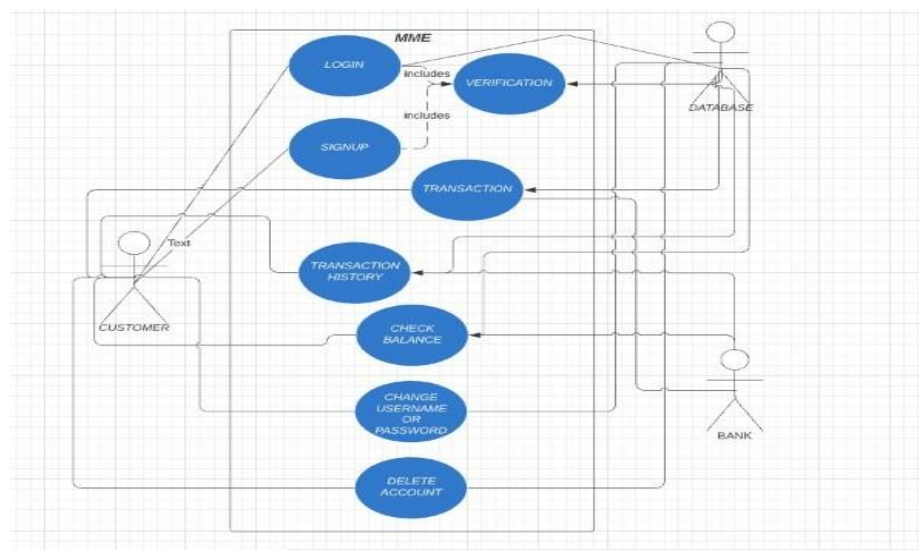
## 2.4 PROJECT SCHEDULE (GANTT CHART)



## 3. SYSTEM IMPLEMENTATION

### 3.1 CODE/ARCHITECTURE DEVELOPMENT

#### USE CASE DIAGRAM



## welcome\_page.php

```
<?php
include("connect.php");
session_start();
?>

<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8" author="Debagha">
    <title>MME: Money Made Easy</title>
    <link rel="icon" type="image/x-icon" href="../logo/Logo1.png">
    <link rel="stylesheet" type="text/css"
href="../css/welcome_style.css"> <!--link the welcome_style.css file-->
</head>
<body>
<canvas></canvas>
<script src="../js/canvas.js"></script>                                <!--use the
canvas.js file-->

<map name="logomap">                                                <!--use of
imagemap-->
    <area shape="rect" coords="0,0,600,150" alt="hom"
href="home_page.html">
</map>
<a href="home_page.html">                                            <!--referring to home
page-->
<button type="submit" class="home">Home</button></a>
<a href="login_page.php">                                          <!--referring to login
page-->
<button type="submit" class="login">Login</button></a>
<a href="signup_page.php">                                          <!--referring to
signup page-->
<button type="submit" class="signup">Sign Up</button></a>

</body>
</html>
```

## signup\_page.php

```
<?php
if (isset($_GET['signupFailed'])) {
    $message1 = "Record not Found in your bank's database.";
    echo "<script type='text/javascript'>alert('$message1');</script>";
}
if (isset($_GET['signupFailed1'])) {
    $message2 = "You already have an account ! Please Log In.";
    echo "<script type='text/javascript'>alert('$message2');</script>";
}
if (isset($_GET['signupFailed2'])) {
    $message2 = "Username already taken please fill a different
username.";
    echo "<script type='text/javascript'>alert('$message2');</script>";
}
if (isset($_GET['signupFailed3'])) {
    $message2 = "The account number is not associated with this name in
the bank.";
    echo "<script type='text/javascript'>alert('$message2');</script>";
}
if (isset($_GET['signupFailed4'])) {
    $message2 = "The account number is not associated with the selected
bank.";
    echo "<script type='text/javascript'>alert('$message2');</script>";
}

?>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8" author="Ansh">
    <title>Sign up page</title>
    <script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/intl-tel-
input/17.0.8/js/intlTelInput.min.js"></script>
    <script type="text/javascript" src="../js/check.js"></script>
    <link rel="icon" type="image/x-icon" href="../logo/Logo1.png">
    <link rel="stylesheet" type="text/css" href="../css/base.css">
    <link rel="stylesheet" type="text/css" href="../css/signup_style.css">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/intl-tel-
input/17.0.8/css/intlTelInput.css">
</head>
<body>
    <canvas></canvas>
```



```

<script src="../../js/canvas.js"></script>

<map name="logomap">
  <area shape="rect" coords="0,0,200,80" alt="hom"
href="home_page.html">
</map>
<a href="login_page.php">
  <button type="submit" class="login">Login</button>
</a>
<a href="home_page.html">
  <button type="submit" class="home">Home</button>
</a>

<h1>Welcome to Sign up page</h1>
<div class="signup">
  <form action="signup_action.php" method="post">
    <label for="fname">First Name<font size="2">&#9733;</font> :
    <input type="text" id="fname" name="fname"
placeholder="Enter your First Name" size="40" required
onchange="CheckName(fname);"></label><br><br>
    <label for="lname">Last Name<font size="2">&#9733;</font> :
    <input type="text" id="lname" name="lname"
placeholder="Enter your First Name" size="40" required
onchange="CheckName(fname);"></label><br><br>

    <label for="bank">Bank Name <font
size="2">&#9733;</font>&nbsp;::&nbsp;
    <select name="bank" id="bank" onblur="checkselect1();"
required>
      <option id="bank1" name="default" value="">Select Your
Bank Name</option>
      <option value="SBI" id="bank2" name="SBI">State Bank
of India</option>
      <option value="ICICI" id="bank3"
name="ICICI">ICICI</option>
      <option value="UBI" id="bank4" name="UBI">Union
Bank of India</option>
      <option value="CBI" id="bank5" name="CBI">Central
Bank of India</option>
      <option value="HDFC" id="bank6"
name="HDFC">HDFC Bank</option>
    </select></label><br><br>

    <label for="accountno">Account No.<font
size="2">&#9733;</font> :
    <input type="text" id="accountno" name="accountno"

```

```
placeholder="Please Enter your Bank Account No." size="40" required  
onchange="checkbankacc(accountno);"></label><br><br>  
>
```

```
<label for="username">Username<font  
size="2">&#9733;</font> :  
<input type="text" id="username" name="username"  
placeholder="Enter a Username of your Choice" size="40" required  
onfocus="show(span1);"  
onblur="document.getElementById('span1').style.display='none';"  
onchange="CheckUsername(username);"></label><span  
id="span1">&#9432; Convention: Username should contain only 5  
characters which should include atleast one from  
&#64;,&#35;,&#36;,&#38;</span><br><br>
```

```
<label for="pw">Login Password<font  
size="2">&#9733;</font> :  
<input type="password" id="pw" name="pw" required  
size="40" placeholder="Enter a Password of your choice"  
onfocus="show(span2);"  
onblur="document.getElementById('span2').style.display='none';"  
onchange="CheckPassword(pw);"></label><span id="span2">&#9432;  
Convention: Password can vary in length from 8-12 characters which  
should include atleast one from &#64;,&#35;,&#36;,&#38; , it should also have atleast one  
uppercase and one lower case letter, it should also have atleast one  
number</span><br><br>
```

```
<label for="cpw"> Confirm Login Password<font  
size="2">&#9733;</font> :  
<input type="password" id="cpw" name="cpw" required  
minlength="8" maxlength="15" onkeyup="check(pw,cpw,message);"  
size="40" placeholder="Confirm your password"><span  
id='message'></span></label><br><br>
```

```
<label for="tpw">Transaction Password<font  
size="2">&#9733;</font> :  
<input type="password" id="tpw" name="tpw" required  
size="40" placeholder="Enter a Password of your choice"  
onfocus="show(span3);"  
onblur="document.getElementById('span3').style.display='none';"  
onchange="CheckPassword(tpw);"></label><span id="span3">&#9432;  
Convention: Password can vary in length from 8-12 characters which  
should include atleast one from &#64;,&#35;,&#36;,&#38; , it should also have atleast one  
uppercase and one lower case letter, it should also have atleast one  
number</span><br><br>
```

```
<label for="tcpw">Confirm Transaction Password<font  
size="2">&#9733;</font> :  
<input type="password" id="tcpw" name="tcpw" required
```

```
size="40" placeholder="Confirm your Transaction password"
onkeyup="check(tpw,tcpw,message1);"><span
id='message1'></span></label><br><br>
```

```
<label for="contactno">Contact-no<font
size="2">&#9733;</font> : </label><input type="tel" name="contactno"
id="contactno" onchange="checkcontact(contactno)"><br><br>
```

```
<label for="email">Email Id<font size="2">&#9733;</font> :
<input type="email" id="email" name="email"
placeholder="Enter your Email Id" size="40" required
onchange="checkEmail(email);"></label><br><br>
```

```
<center><font size="2">&#9733; mandatory
fields</font><br><br>
```

```
<input type="submit" name="signupbtn" class="btn1"
value="Submit"></center></form></div>
```

```
</body>
```

```
<script>
```

```
function getIp(callback) {
fetch('https://ipinfo.io/json?token=e8d8fb45a7cc9c', { headers: { 'Accept':
'application/json' }})
.then((resp) => resp.json())
.catch(() => {
return {
country: 'us',
};
})
.then((resp) => callback(resp.country));
}
```

```
const phoneInputField = document.querySelector("#contactno");
const phoneInput = window.intlTelInput(phoneInputField, {
initialCountry: "auto",
geoIpLookup: getIp,
preferredCountries: ["in","us","uk","ru"],
utilsScript:
"https://cdnjs.cloudflare.com/ajax/libs/intl-tel-
input/17.0.8/js/utils.js",
});
```

```
function telephone(){
const phoneNumber = phoneInput.getNumber();
alert(phoneNumber);
}
</script>
</html>
```

## transaction\_page.php

```
<?php
include("connect.php");
session_start();
if(!isset($_SESSION['username']))
{
    header("location: login_page.php");
}
$query1 = "SELECT * FROM bankaccounts WHERE account_no =
'".$_SESSION['account_no']."'";
$result1 = mysqli_query($con, $query1);
if($result1 && mysqli_num_rows($result1) > 0)
{
    $acc_data = mysqli_fetch_assoc($result1);
    $balance = $acc_data['balance'];
}
if (isset($_GET['transFailed1'])) {
    $message1 = "Insufficient Balance.";
    echo "<script type='text/javascript'>alert('$message1');</script>";
}
if(isset($_GET['transFailed2'])){
    $message = "Wrong Transaction Password filled! Please try again.";
    echo "<script type='text/javascript'>alert('$message');</script>";
}
?>
<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Transaction</title>
    <script type="text/javascript" src="../js/check.js"></script>
    <link rel="icon" type="image/x-icon" href="../logo/Logo1.png">
    <link rel="stylesheet" type="text/css" href="../css/base.css">
    <link rel="stylesheet" type="text/css" href="../css/services.css">
</head>
<body>
    <canvas></canvas>
    <script src="../js/canvas.js"></script>
    
    <map name="logomap">
        <area shape="rect" coords="0,0,200,80" alt="hom1"
href="dashboard_page.php">
    </map>
```

```

<a href="logout_action.php">
  <button type="submit" class="logout">Log Out</button>
</a>
<div class="topnav">
  <a href="dashboard_page.php" id="dashboard">Dashboard</a>
  <a class="active" href="transaction_page.php"
id="trans">Transaction</a>
  <a href="transactionhistory_page.php" id="transhis">Transaction
History</a>
  <a href="checkbalancepage.php" id="bal">Check Balance</a>
  <a href="deleteacc_page.php" id="del">Delete Account</a>
  <a href="contactpage.php" id="contact">Contact</a>
</div>

  <div><h1>Welcome to Transaction page</h1>
    <form action="transaction_action.php" method="post">
      <label for="pacno">Beneficiary Account No. <font
size="2">&#9733;</font> :&nbsp;  </label><input type="text" id="pacno"
name="pacno" placeholder="Enter your Account Number" size="40"
required onchange="checkbankacc(pacno);"><br><br>
      <label for="tacno">Re-enter Beneficiary Account Number <font
size="2">&#9733;</font> &nbsp;  </label><input type="text"
id="tacno" name="tacno" placeholder="Enter Beneficiary Account
Number" size="40" required onchange="checkbankacc(tacno);
check(pacno, tacno, message);" onfocus="hide(pacno);"
onblur="show1(pacno);">&nbsp;  <span id="message"></span><br><br>
      <label for="amonut">Amount <font size="2">&#9733;</font>
&nbsp;  </label><input type="text" id="amount" name="amount"
placeholder="Enter Amount to be transferred" size="40" required
onchange="checkamount(amount);" onfocus="show(span1);"
onblur="document.getElementById('span1').style.display='none';"></label>
><font style="font-size: 12px;"> Balance:<?php echo $balance;
?></font><span id="span1" style="display: none;">&#9432; The lower
limit for transaction is 100 and upper limit for transaction is
1000000</span><br><br>
      <label for="password">Transaction Password<font
size="2">&#9733;</font> &nbsp;  </label><input
type="password" id="pw" name="pw" placeholder="Enter Transaction
Password" size="40" required
onchange="CheckPassword1(pw);"><br><br>
      <font size="2">&#9733; mandatory fields</font><br><br>
      <input type="submit" name="transbtn" value="Submit"
class="btn1"></form>
    </div>
</body>
</html>

```

## Changeusername\_page.php

```
<?php
include("connect.php");
session_start();

if(!isset($_SESSION['username'])){
    header("location: login_page.php");
}
if (isset($_GET['usernamechangeFailed'])) {
    $message = "Fill the correct old username";
    echo "<script type='text/javascript'>alert('$message');</script>";
}
if (isset($_GET['usernamechangeFailed1'])) {
    $message = "The new username filled by you is already in use, please
fill a different username.";
    echo "<script type='text/javascript'>alert('$message');</script>";
}

?>
<!DOCTYPE html>
<html>
<head>
    <title>Change Username</title>
    <link rel="stylesheet" type="text/css" href="../css/base.css">
    <link rel="stylesheet" type="text/css" href="../css/services.css">
    <link rel="icon" type="image/x-icon" href="../logo/Logo1.png">
    <script type="text/javascript" src="../js/check.js"></script>
</head>
<body>
    <canvas></canvas>
    <script src="../js/canvas.js"></script>
    
    <map name="logomap">
        <area shape="rect" coords="0,0,200,80" alt="hom1"
href="dashboard_page.php">
    </map>
    <a href="confirmlogout.php">
        <button type="submit" class="logout">Log Out</button>
    </a>

    <div class="changeusername">
        <h1>Change Username</h1>
        <form action="changeusername_action.php" method="post">
```

```

        <label for="oldusername">Enter Old Username <font
size="2">&#9733;</font> :&nbsp;
        <input type="text" name="oldusername"
id="oldusername"></label><br><br>
        <label for="newusername">Enter New Username <font
size="2">&#9733;</font> :&nbsp;
        <input type="text" name="newusername"
id="newusername"
onchange="CheckUsername1(newusername)"></label><br><br>
        <label for="renewusername">Confirm New Username
<font size="2">&#9733;</font> :&nbsp;
        <input type="text" name="renewusername"
id="renewusername"
onkeyup="check(newusername,renewusername,message)"
onfocus="hide(newusername);" onblur="show1(newusername);"><span
id="message"></span></label><br><br>
        <font size="2">&#9733; mandatory fiels</font><br><br>
        <input type="submit" name="usernamechangebtn" value="Submit"
class="btn1"></form>
    </div>
</body>
</html>

```

## Canvas.js

```

var canvas = document.querySelector('canvas');

canvas.width=window.innerWidth;           // setting width as the
width of screen
canvas.height=window.innerHeight;         // setting height as the
height of screen

var c = canvas.getContext('2d');           // setting canvas for 2d shapes
var mouse = {                             // mouse variable declaration
    x:undefined,
    y:undefined
}
var maxRadius = 40;                       // maximum radius of circle achieved
var colorArray = [                         // declaration of colorArray
    '#590212',
    '#8C0327',
    '#BF8494',
    '#BF471B',
    '#D99B84'
];
window.addEventListener('mousemove', function(event){ //event

```

```

listener so that the circle enlarges when mouse movement happens
    mouse.x = event.x;
    mouse.y = event.y;
});
window.addEventListener('resize', function(){
    canvas.height=window.innerHeight;
    canvas.width=window.innerWidth;
    init();
});
function Circle(x,y,dx,dy,radius,minRadius){                                //Circle
function using OOPS concept on JS
    this.x = x;
    this.y = y;
    this.dx = dx;
    this.dy = dy;
    this.radius = radius;
    this.minRadius = radius;
    this.color = colorArray[Math.floor(Math.random() * colorArray.length)];

    this.draw = function(){                                                //function to draw circle
    c.beginPath();
    c.arc(this.x,this.y,this.radius,0,360, false);
    c.fillStyle = this.color;
    c.fill();
    }
    this.update = function(){                                              //function for moving circle
and enlarging them
    if (this.x+this.radius>canvas.width || this.x-this.radius<0)
    {
        this.dx = -this.dx;
    }
    if (this.y+this.radius>canvas.height || this.y-this.radius<0)
    {
        this.dy = -this.dy;
    }
    this.x+=this.dx;
    this.y+=this.dy;

    if(mouse.x-this.x<50 && mouse.x-this.x>-50 && mouse.y-this.y<50
//interactivity
    && mouse.y-this.y>-50)
    {
        if(this.radius<maxRadius){
            this.radius +=1;
        }
    }
}

```



```

        else if(this.radius>this.minRadius)
        {
            this.radius -=1;
        }

        this.draw();}

    }

```

```

var circleArray = [];                                // declaration of circleArray for
storing the circles

```

```

function init(){                                    // function init() to define the
properties of circle

```

```

    circleArray = [];

    for (var i = 0; i<600; i++)
    {
        radius = Math.random() * 3 + 4;
        var x = Math.random()*(canvas.width-(radius*2)) + radius*2;
        var y = Math.random()*(canvas.height-(radius*2)) + radius*2;
        var dx = (Math.random() - 0.5)*2;
        var dy = (Math.random() - 0.5)*2;
        circleArray.push(new Circle(x,y,dx,dy,radius));
    }

}

```

```

function animate(){                                // function controlling the
animation

```

```

    requestAnimationFrame(animate);
    c.clearRect(0,0,canvas.width,canvas.height);
    for (var i = 0; i < circleArray.length; i++) {
        circleArray[i].update();
    }

}

```

```

animate();
init();

```

## services.css

```
button.signup{
  position: fixed;
  top:10px;
  left: 900px;
  width:150px;
  height:70px;
}
button.home{
  position: fixed;
  top:10px;
  left: 1090px;
  width:150px;
  height:70px;
}
button.logout{
  position: fixed;
  top:10px;
  left: 1000px;
  width:150px;
  height:70px;
}
div{
  position: fixed;
  top:210px;
  left: 250px;
  margin: auto;
  background-image: linear-gradient(to right,#ff3333,#ffb3b3);
  margin: auto;
  width:800px;
  height: 350px;
  overflow: auto;
  font-family: sans-serif;
  font-size: 12pt;
  border-radius: 15px;
  text-align: center;
}
div.signup
{
  padding: 20px;
}
.loginpasschange, .transpasschange{
  display: none;
}
.back1, .back2{
```

```
color: #000000;
float: left;
font-size: 20px;
font-weight: bold;
}
.back1:hover,
.back1:focus,
.back2:hover,
.back2:focus{
color: #ffffff;
text-decoration: none;
cursor: pointer;
}
.delacc{
position: fixed;
padding-top: 20px;
padding-left: 20px;
text-align: left;
}
.topnav {
position: fixed;
top: 120px;
left:0px;
width:100%;
height: 40px;
overflow: hidden;
background-image: linear-gradient(to right,#ff3333,#ffb3b3);
border-radius: 15px;
}
.topnav a {
float: left;
color: #000000;
text-align: center;
padding: 14px 16px;
text-decoration: none;
font-size: 17px;
}
.topnav a:hover {
background-image: linear-gradient(to right,#00cc66,#99ffcc);
font-weight: bold;
}
.topnav a.active {
background-color: #00cc66;
color: white;
font-weight: bold;
border-radius: 15px;
```

```

}
tr:hover{
    background-color: #99ffcc;
}

```

### GITHUB REPOSITORY LINK (For Rest of the Codes):

<https://github.com/debar2001/Project-IWP/tree/master>

## 3.2 TEST RESULTS

| Test Case Id | Test Case Name                          | Test Data                                    | Criteria   | Expected Result                             | Actual Result   | Test Case Passed/ Failed |
|--------------|---|--|--|---|-----------------|--------------------------|
| 01           | <b>Username validation</b>              | Username:<br>dgn@1                           | username should be of 5 characters. At least one of them should be special symbol  | No alert pop-up since username is correct   | No alert pop-up | Passed                   |
| 02           | <b>Login Password validation</b>        | Login Password:<br>Welcome@2001              | Password should contain 8-12 characters At least one should be a capital letter, one should be small letter, one should be digit and a special character | No alert pop-up Since password is correct   | No alert pop-up | Passed                   |
| 03           | <b>First name, last name validation</b> | Fist name:<br>Debargha<br>Last name:<br>Guha | First name and last name should not contain any character other than letters   | No Alert pop since the test data is correct | No alert pop-up | Passed                   |

|    |  |   |  |   |                 |        |
|----|--|---|--|---|-----------------|--------|
| 04 | <b>Account Number</b>                  | Account Number: 123                                   | The Account should be between 11-16 digits   | Alert Pop-Up since the test data doesn't have 11 digits   | Alert Pop-Up    | Passed |
| 05 | <b>Bank name validation</b>            | No Bank Chosen  | A Bank Name should be chosen   | Alert Pop-Up since no bank name chosen                    | Alert Pop-Up    | Passed |
| 06 | <b>Email validation</b>                | Email: Ansh0123                                       | The email should be valid  | Alert Pop-Up since test data not a valid email            | Alert Pop-Up    | Passed |
| 07 | <b>Transaction Amount validation</b>   | Amount: 12  | The Amount should be between 100-1000000   | Alert Pop-Up since test data not a valid amount           | Alert Pop-Up    | Passed |
| 08 | <b>OTP Validation</b>                  | OTP: 12345  | The OTP should be Of 6 digits  | Alert Pop-Up since test data OTP has less than 6 digits   | Alert Pop-Up    | Passed |
| 09 | <b>Confirm mechanism for passwords</b> | Password: Welcome@2001<br>Confirm Password: Wel@20012 | The 2 entries should be same   | Red 'X' mark as both are not matching                     | Red 'X' mark    | Passed |
| 10 | <b>Transaction Password Validation</b> | Transaction Password: Welcome@2002                    | Password should contain 8-12 characters At least one should be a capital letter, one should be small letter, one should be digit and a special character | No Alert Pop-Up as test data satisfies all the conditions | No Alert Pop-Up | Passed |
| 11 | <b>Transaction Validation</b>          | Amount:120000<br>Balance: 40000                       | If Amount > Balance than no transaction should happen  | Alert Pop-Up after filling transaction details in form    | Alert Pop-Up    | Passed |

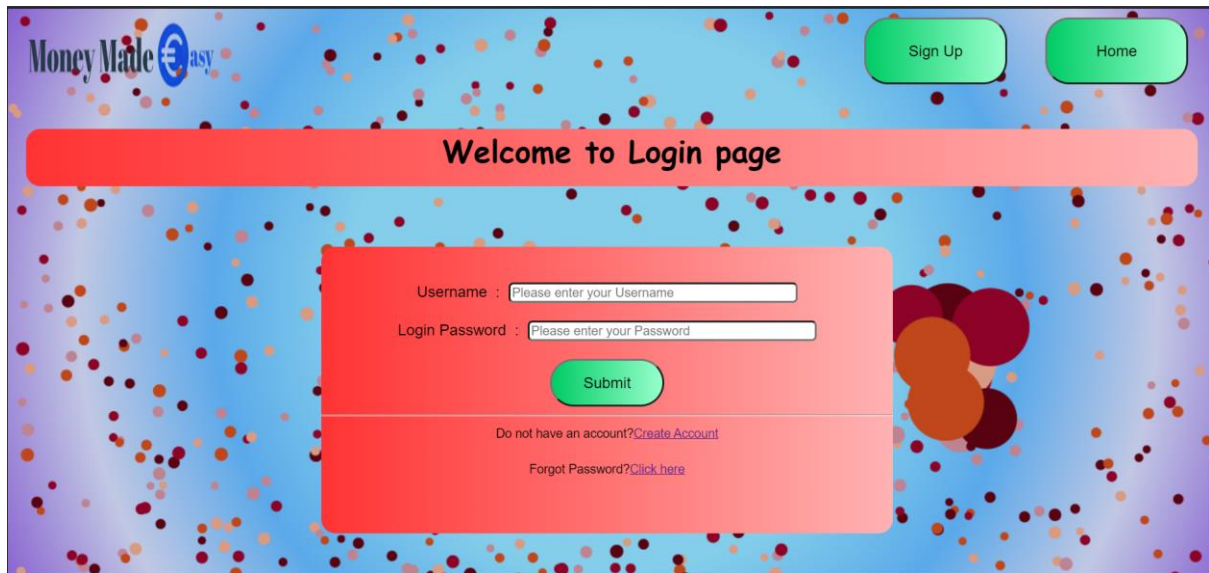
## 4. RESULTS AND DISCUSSION

### 4.1 RESULTS/OUTPUT

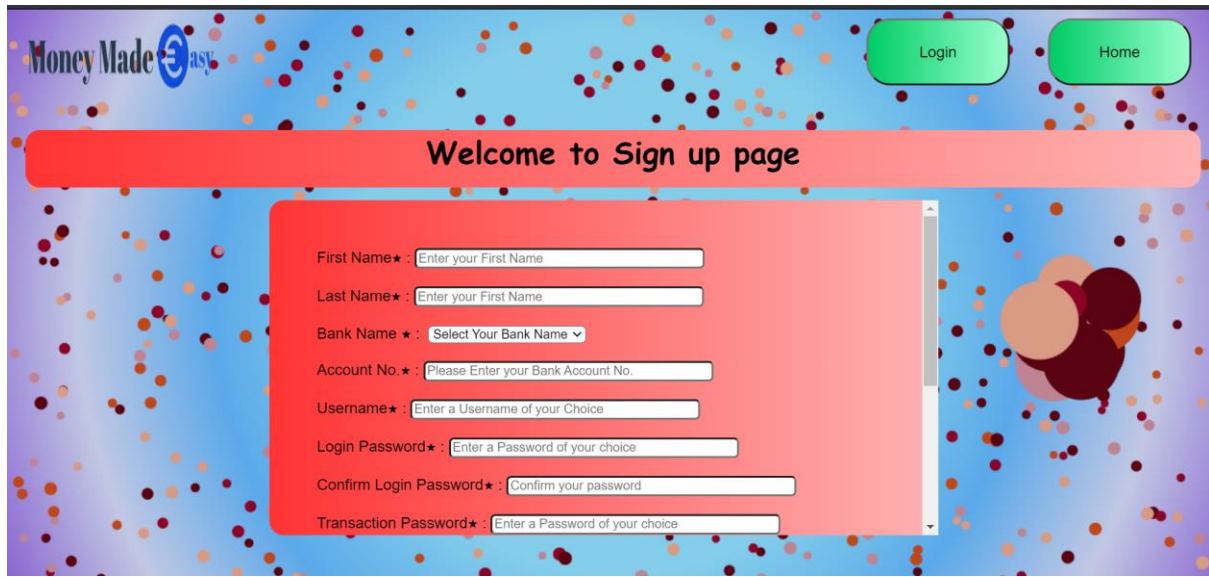
Welcome Page:



Login Page:



## Sign up Page:



The sign up page features a blue header with the 'Money Made Easy' logo on the left and 'Login' and 'Home' buttons on the right. A large red banner below the header reads 'Welcome to Sign up page'. The main content area is a white box with a red border containing several input fields: 'First Name', 'Last Name', 'Bank Name' (a dropdown menu), 'Account No.', 'Username', 'Login Password', 'Confirm Login Password', and 'Transaction Password'. Each field is preceded by a red asterisk and a label. The background of the page is a blue gradient with scattered orange and red dots.

Money Made Easy

Login Home

Welcome to Sign up page

First Name★ :

Last Name★ :

Bank Name ★ :

Account No.★ :

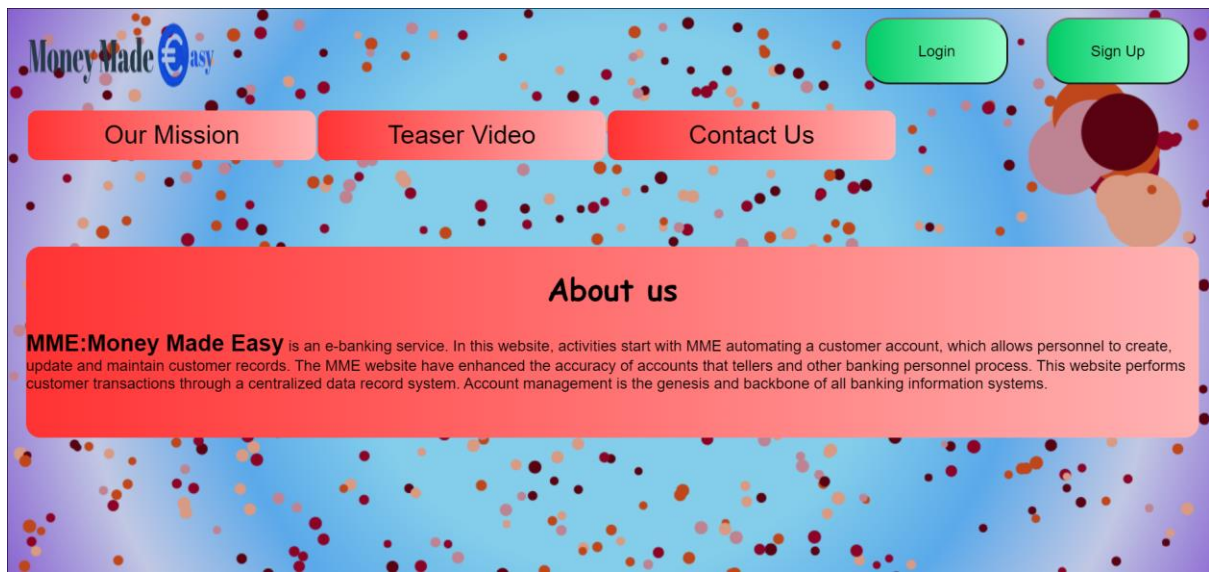
Username★ :

Login Password★ :

Confirm Login Password★ :

Transaction Password★ :

## Home Page:



The home page features a blue header with the 'Money Made Easy' logo on the left and 'Login' and 'Sign Up' buttons on the right. Below the header are three red buttons: 'Our Mission', 'Teaser Video', and 'Contact Us'. A large red banner below these buttons reads 'About us'. The main content area is a white box with a red border containing a paragraph of text about the MME service. The background of the page is a blue gradient with scattered orange and red dots.

Money Made Easy

Login Sign Up

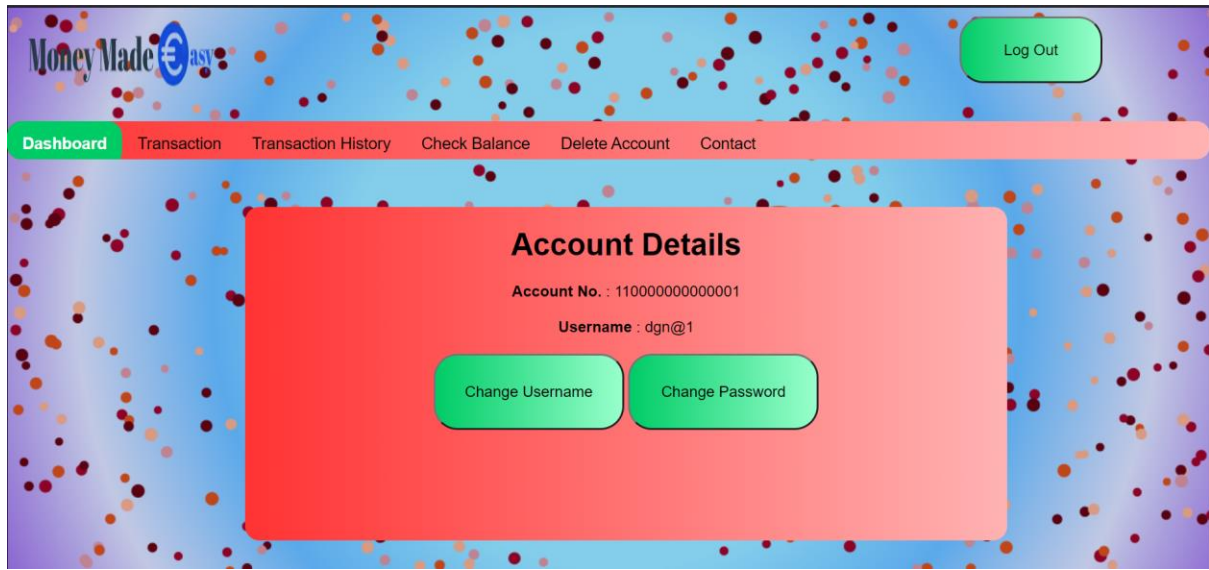
Our Mission Teaser Video Contact Us

About us

**MME:Money Made Easy** is an e-banking service. In this website, activities start with MME automating a customer account, which allows personnel to create, update and maintain customer records. The MME website have enhanced the accuracy of accounts that tellers and other banking personnel process. This website performs customer transactions through a centralized data record system. Account management is the genesis and backbone of all banking information systems.

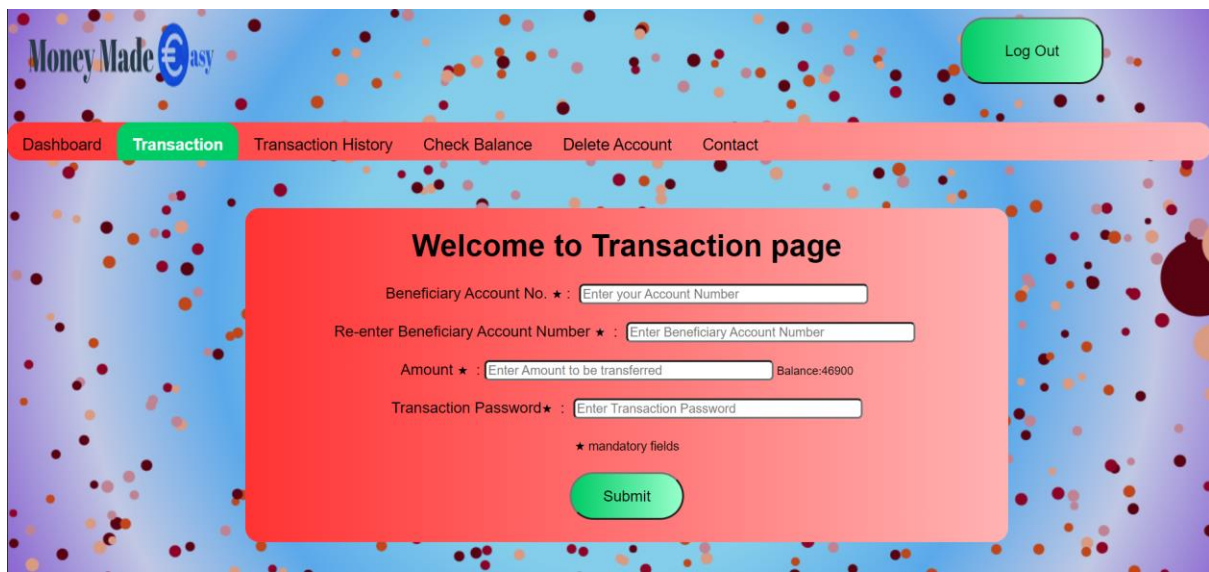


## Dashboard Page:



The screenshot shows the 'Dashboard' page of the 'Money Made Easy' application. The background is a blue and purple gradient with colorful dots. At the top left is the logo 'Money Made Easy' with a blue Euro symbol. At the top right is a green 'Log Out' button. Below the logo is a horizontal navigation bar with the following items: 'Dashboard' (highlighted in green), 'Transaction', 'Transaction History', 'Check Balance', 'Delete Account', and 'Contact'. In the center of the page is a large red rounded rectangle containing the text 'Account Details'. Below this text, it shows 'Account No. : 110000000000001' and 'Username : dgn@1'. At the bottom of the red rectangle are two green buttons: 'Change Username' and 'Change Password'.

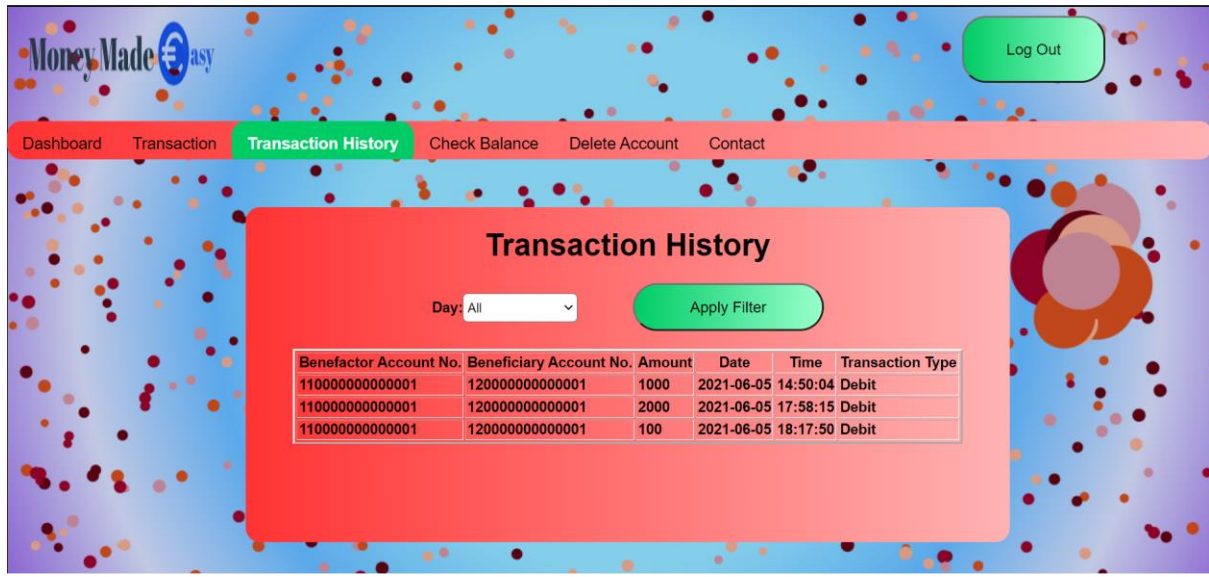
## Transaction Page:



The screenshot shows the 'Transaction' page of the 'Money Made Easy' application. The layout is similar to the dashboard page. The navigation bar now has 'Transaction' highlighted in green. The central red rounded rectangle contains the text 'Welcome to Transaction page'. Below this, there are four input fields with labels and asterisks indicating mandatory fields: 'Beneficiary Account No. \* : Enter your Account Number', 'Re-enter Beneficiary Account Number \* : Enter Beneficiary Account Number', 'Amount \* : Enter Amount to be transferred' (with a 'Balance:46900' label to its right), and 'Transaction Password\* : Enter Transaction Password'. Below these fields is a green 'Submit' button. At the bottom of the red rectangle, there is a small text '\* mandatory fields'.



## Transaction History Page:



Money Made Easy

Log Out

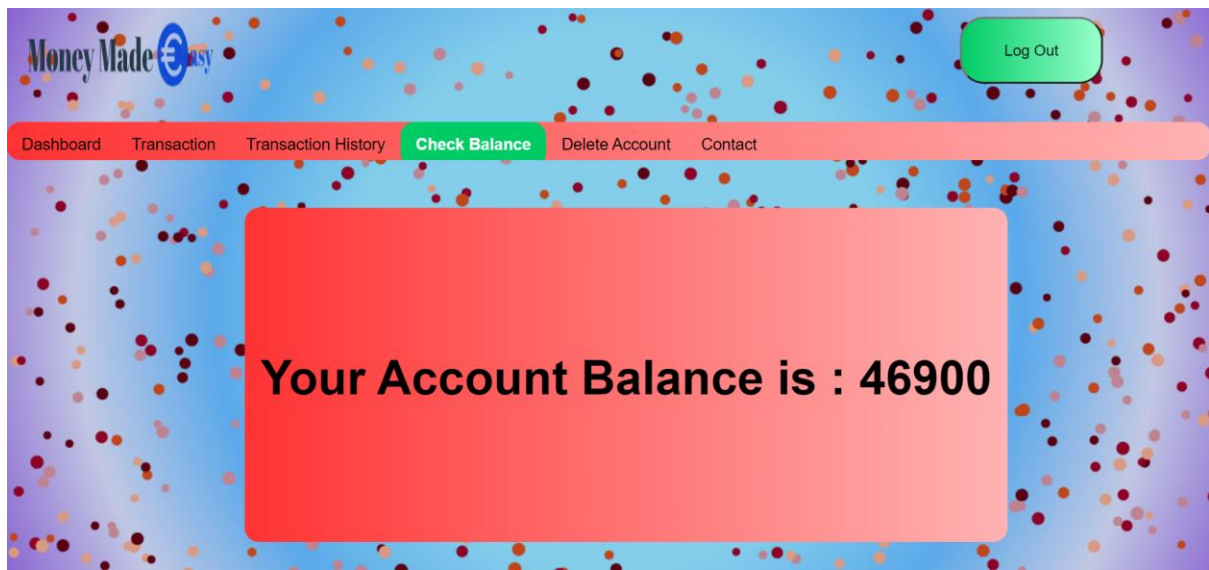
Dashboard Transaction **Transaction History** Check Balance Delete Account Contact

**Transaction History**

Day: All

| Benefactor Account No. | Beneficiary Account No. | Amount | Date       | Time     | Transaction Type |
|------------------------|-------------------------|--------|------------|----------|------------------|
| 1100000000000001       | 1200000000000001        | 1000   | 2021-06-05 | 14:50:04 | Debit            |
| 1100000000000001       | 1200000000000001        | 2000   | 2021-06-05 | 17:58:15 | Debit            |
| 1100000000000001       | 1200000000000001        | 100    | 2021-06-05 | 18:17:50 | Debit            |

## Check Balance:




Money Made Easy

Log Out

Dashboard Transaction Transaction History **Check Balance** Delete Account Contact

**Your Account Balance is : 46900**

## Delete Account Page:

Money Made 

Log Out

Dashboard Transaction Transaction History Check Balance **Delete Account** Contact

### Delete Account

Please fill in this form so that we can better ourselves


Q.1 Why are you Deleting your MME Account?

- ☐ I discovered another application providing better services than MME
- ☐ MME is time consuming to use, I will better go to bank

Q.2 What exactly did you not like about MME?

- ☐ User Interface is not user-friendly
- ☐ The number of services are less

## Contact Page:

Money Made 

Log Out

Dashboard Transaction Transaction History Check Balance Delete Account **Contact**

### Contact details if you find any difficulty while using MME

Customer Care No.: +91XXXXXXXXXX

Email: mmecustomercare@gmail.com

## Enter OTP Transaction Page:

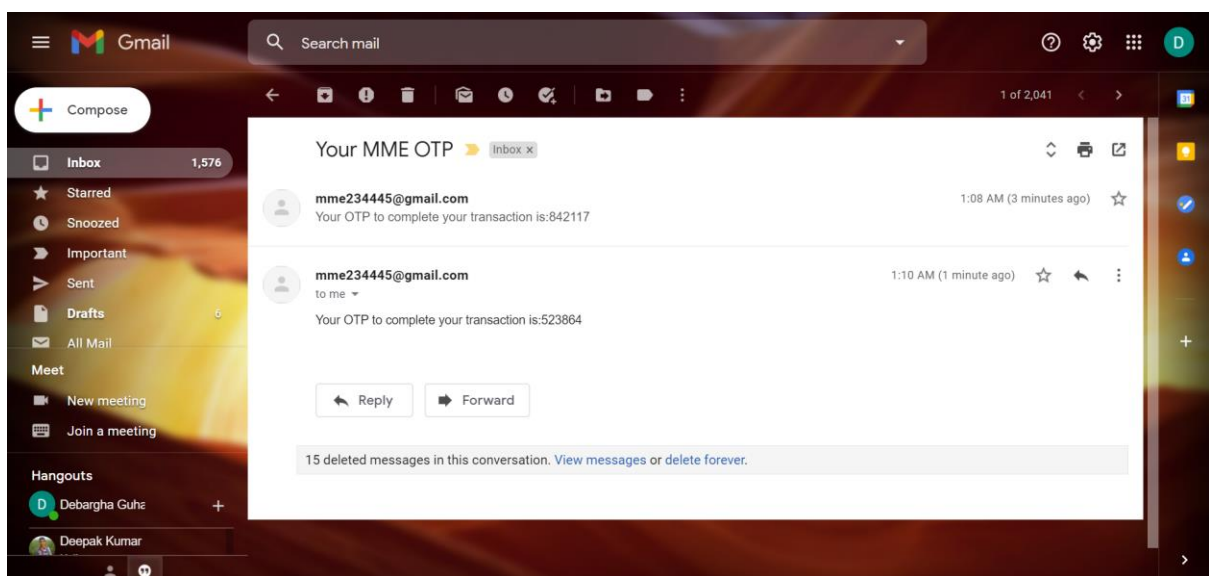


Money Made Easy

Log Out

Enter OTP sent to your registered email:

Submit



## 5. CONCLUSION

Since there are many web applications like this in the store today, owners need to discover a function that draws consumers to use their app at the highest possible rate. Such apps should be interesting and should function correctly. Having too many features in an implementation can sometimes result in a catastrophe. The idea of MME: Money Made Easy is well conceived and timely as it is commonly implemented throughout world, so customers are requesting a shift from traditional card payments to E-Wallet apps. The MME: Money

Made Easy should drive and attract users in using the web app and the design should be clear, clean and with minimalist display of features. This is the most important issue that should be dealt with in order for the app to work with people who have no previous MME experience. When testing, it was realized that users were quite slow in comprehending the web app's design because it was their first experience, but when they got used to playing with it, it got faster and quicker. On average, the findings acquired from the evaluation show that ease of usability increases of each allocated task from the experiments performed. Overall, the outcome of the project revealed that the app is generally instrumental to assisting users accomplishing their electronic wallet goals.

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- [Apache Friends Support Forum](#)
- [Stack Overflow](#)
- [Google Developers YouTube Channel and Website](#)
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- [freeCodeCamp](#)