

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“Jnana Sangama”, Belgaum -590014, Karnataka.



FULLSTACK WEB DEVELOPMENT PROJECT REPORT
On

“BMS Bank management System”

Submitted by

Saksham Shrivastava (1BM23CS290)

Rohan Vats (1BM23CS273)

Bhavana S Holla (1BM23CS366)

Shravan Shetty (1BM24CS423)

Under the Guidance of

Srushti C S

Assistant Professor

Dept of CSE

BMSCE, Bengaluru

in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING



B.M.S. COLLEGE OF ENGINEERING

**(Autonomous Institution under VTU) BENGALURU-
560019**

2024 - 2025

**B. M. S. College of Engineering,
Bull Temple Road, Bangalore 560019**

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the project work entitled **“BMS Bank Management System”** carried out by **Saksham Shrivastava (1BM23CS290), Rohan Vats (1BM23CS273), Bhavana S Holla (1BM23CS366), Shravan Shetty (1BM24CS423)** who are bonafide students of **B. M. S. College of Engineering**. It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visveswararajah Technological University, Belgaum during the year 2024. The project report has been approved as it satisfies the academic requirements in respect of **Full Stack Web Development(23CS3AEFWD)** work prescribed for the said degree.

Signature of the Guide

Srushti C S

Assistant professor,
Department of CSE,
BMSCE, Bengaluru

Signature of the HOD

Dr. Kavitha Sooda
Professor & Head,
Department of CSE,
BMSCE, Bengaluru

External Viva

Name of the Examiner

Signature with date

**B.M.S COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



DECLARATION

We, **Saksham Shrivastava (1BM23CS290), Rohan Vats (1BM23CS273), Bhavana S Holla (1BM23CS366), Shravan Shetty (1BM24CS423)** students of 3rd Semester, B.E, Department of Computer Science and Engineering, BMS College of Engineering, Bangalore, hereby declare that, this Full Stack Web Development entitled "**BMS Bank Management System**" has been carried out by us under the guidance of Srushti C S, Assistant Professor, Department of CSE, B.M.S College of Engineering, Bangalore during the academic semester Sept 2024 - Jan 2025.

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

Saksham Shrivastava (1BM23CS290)

Rohan Vats (1BM23CS273)

Bhavana S Holla (1BM23CS366)

Shravan Shetty (1BM24CS423)

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INTRODUCTION

1.1 Overview

The BMS Bank Management System is a web-based platform designed to handle essential banking tasks such as creating accounts, logging in, depositing funds, withdrawing money, and viewing transaction histories. It offers a secure and user-friendly interface with real-time updates, making it easy for users to manage their finances. By integrating basic banking functionalities in a digital format, the system ensures convenience, reliability, and data security while laying the groundwork for future enhancements like loan management or credit card services.

1.2 Motivation

This project addresses the growing need for simple and secure online banking solutions, eliminating the inconvenience of traditional methods like manual record-keeping and in-person visits. As more people rely on digital platforms for financial transactions, having an efficient, easy-to-use, and secure system has become essential. The BMS Bank Management System empowers users to manage their finances conveniently, offering access to their accounts and transactions anytime and anywhere.

Beyond user benefits, this project serves as a learning experience for developers. Building the system provides hands-on exposure to web development, database management, and secure authentication practices. It helps bridge the gap between theoretical knowledge and real-world applications, offering insights into creating scalable and reliable software solutions.

The motivation also lies in contributing to the digital transformation of financial services. With the rise of online banking, this project aligns with modern trends and aims to create a foundation for future advancements. It inspires innovation, whether through adding features like loan management or integrating AI-driven financial insights. Ultimately, this project combines practical utility for users with an enriching experience for developers, making it a meaningful and forward-thinking endeavor.

SOFTWARE REQUIREMENT SPECIFICATION

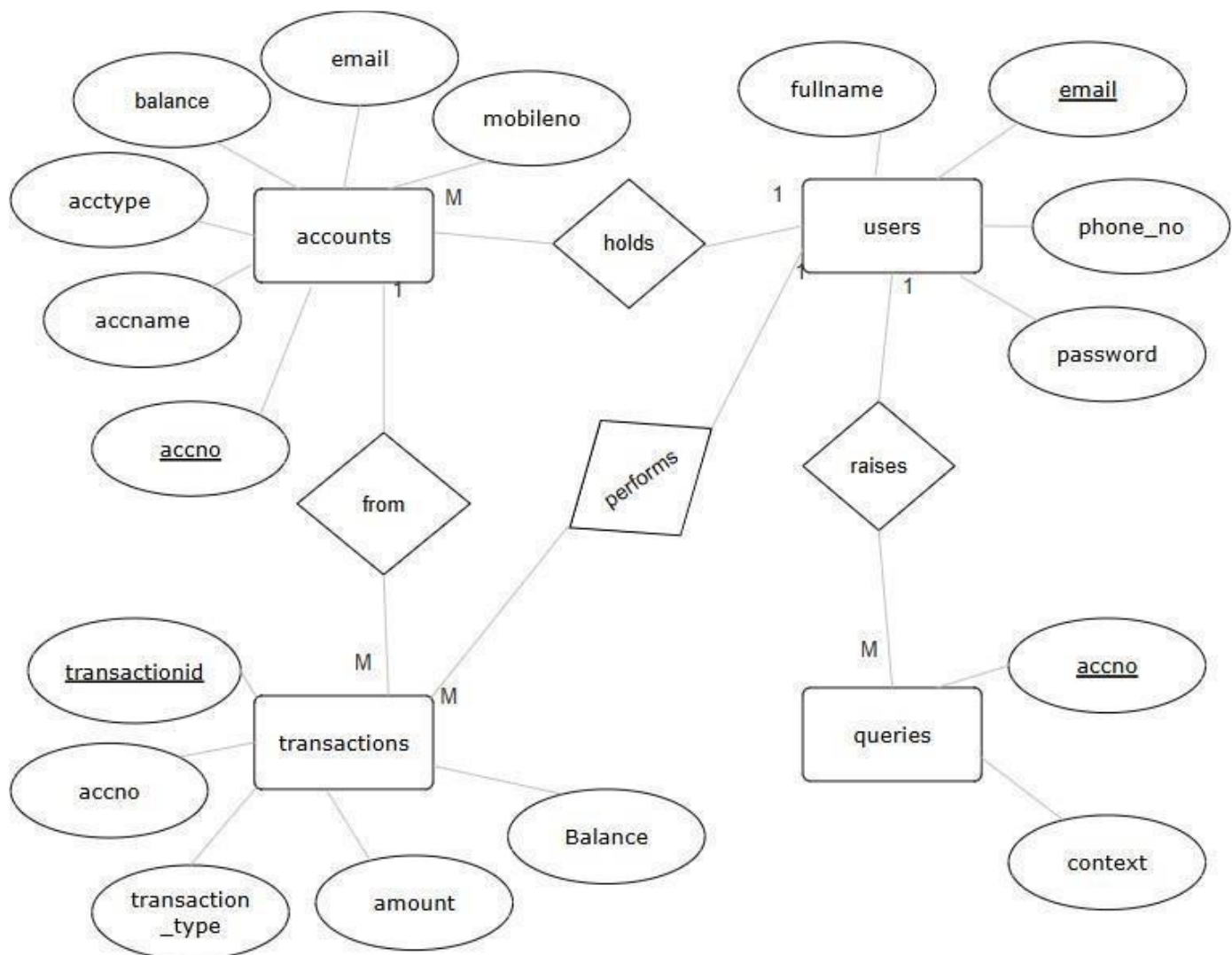
2.1 Hardware Requirements:

- **A PC with the following or greater specifications:**
 - **Intel Core i3 or higher**
 - **8 GB RAM o 500 GB Hard Drive**
- **A stable internet connection (2Mbps or higher)**

2.2 Software Requirements:

- 1. Operating system : Windows, Linux**
- 2. Front end technologies are : HTML, CSS, JavaScript**
- 3. IDE : VS Code, Sublime text**
- 4. Back end requirement : PHP**
- 5. Server : XAMPP server**

3. ER DIAGRAM OF THE PROJECT



4. SCHEMA OF THE PROJECT

accounts		
accno	INT	
accname	VARCHAR(100)	NN
acctype	ENUM(Savings,Current,Fixed Deposit)	NN
balance	DECIMAL(15,2)	NN
email	VARCHAR(100)	NN
mobilen	VARCHAR(15)	NN

users		
fullname	VARCHAR(100)	NN
email	VARCHAR(100)	
phone_no	VARCHAR(15)	NN
password	VARCHAR(255)	NN

queries		
query_id	INT	
accno	INT	
context	TEXT	NN

transactions		
transaction_id	INT	
accno	INT	
transaction_type	ENUM(Deposit,Withdrawal,Transfer)	NN
amount	DECIMAL(15,2)	NN
balance	DECIMAL(15,2)	NN



USER INTERFACE DESIGN

1. Account page: For account creation.

BMS BANK

[HOME](#) | [Account](#) | [Deposit](#) | [withdrawal](#) | [Transactions](#) [logout](#)

CREATE ACCOUNT

Enter Acc_NO

NAME

Acc_type

Initial Deposit

E-mail

Contact-No

CREATE

localhost/BMS/pages/Account.html

Description:

The "Account Page" allows users to create an account by entering key details:

- **Account Number:** Unique identifier.
- **Name:** Full name of the account holder.
- **Account Type:** account type (e.g., Savings, Current).
- **Initial Deposit:** Minimum deposit required.
- **Email:** User's email for updates.
- **Contact Number:** Phone number for verification.

The user-friendly interface features clearly labeled fields, data validation, and a create button, ensuring a simple and accessible experience.

2. Deposit page: To deposit amount

The image is a screenshot of a web application. At the top, there is a navigation bar with five links: 'HOME', 'Account', 'Deposit', 'withdrawal', and 'transactions'. The 'Deposit' link is highlighted with a dark background. In the top right corner, there is a 'logout' link. The main content area features a large, semi-transparent modal box titled 'Deposit Amount'. Inside this modal, there are two input fields: the first is labeled 'Acc_no' and the second is labeled 'The Amount to Deposit'. Below these fields is a button labeled 'Deposit'. The background of the entire page is a stylized illustration of a classical bank building with columns and a pediment labeled 'BANK'. The URL 'localhost/BMS/pages/Deposit.html' is visible in the bottom left corner.

- **Purpose:** Facilitates depositing money into a specific bank account.□
- **Features:**□
 1. **Account Number Field:** Input field to enter the target account number.
 2. **Amount Field:** Input field to specify the amount to be deposited.
 3. **Deposit Button:** Button to confirm the transaction and deposit the specified amount.
- **Functionality:**□
 1. User enters the account number.
 2. User specifies the deposit amount.
 3. User clicks the "Deposit" button to complete the transaction.
- 3. **Transactions page:** To view transaction history.

BMS BANK

[HOME](#)[Account](#)[Deposit](#)[Withdrawal](#)[Transactions](#)[About Us](#)[logout](#)

Id	Account No	Transaction	Amount	Balance
1	101	DEPOSIT	300	5900
2	101	Withdraw	900	5000
3	101	DEPOSIT	1000	6000
4	101	DEPOSIT	1000	7000
5	101	Withdraw	1000	6000
6	101	Withdraw	1000	5000
7	101	Withdraw	1000	4000
8	101	Withdraw	1000	3000
9	101	Withdraw	1000	2000
10	101	Withdraw	1000	1000

1. **Purpose:** The page shows detailed transaction history for a bank account.
2. **Table Columns:** Columns include:
 - Id: Transaction identifier.
 - Account No: The account number (e.g., 101).
 - Transaction: Type (e.g., DEPOSIT or Withdraw).
 - Amount: Amount involved in each transaction.
 - Balance: Account balance after each transaction.
3. **Sequential Transactions:** Shows the progression of deposits and withdrawals, and their effect on the balance.
4. **Withdrawal Page**

BMS BANK

HOME Account Deposit **Withdrawal** Transactions About Us [logout](#)

Withdraw Amount

Acc_no

Amount to Withdraw

localhost/BMS/pages/withdraw.html

1. **Page Purpose:** Designed for customers to perform withdrawals from their bank accounts.

2. **Input Fields:**

- **Account Number (Acc no):** A field for entering the bank account number.
- **Withdrawal Amount:** A field for specifying the amount to withdraw.

5. **Contact and Query Box**

Contact Us

If you have questions or need assistance, we're here to help. Reach out to us:

Phone: +91-80-26622130-35

Email: info@bmsce.ac.in

Address: P.O. Box No.: 1908, Bull Temple Road, Bangalore - 560 019 Karnataka, India.

Any issues :

Enter accno:

Issues:

1. **Purpose:** serves as a platform for users to get in touch for queries, assistance, or to report issues related to the bank system.

2. Contact Information:

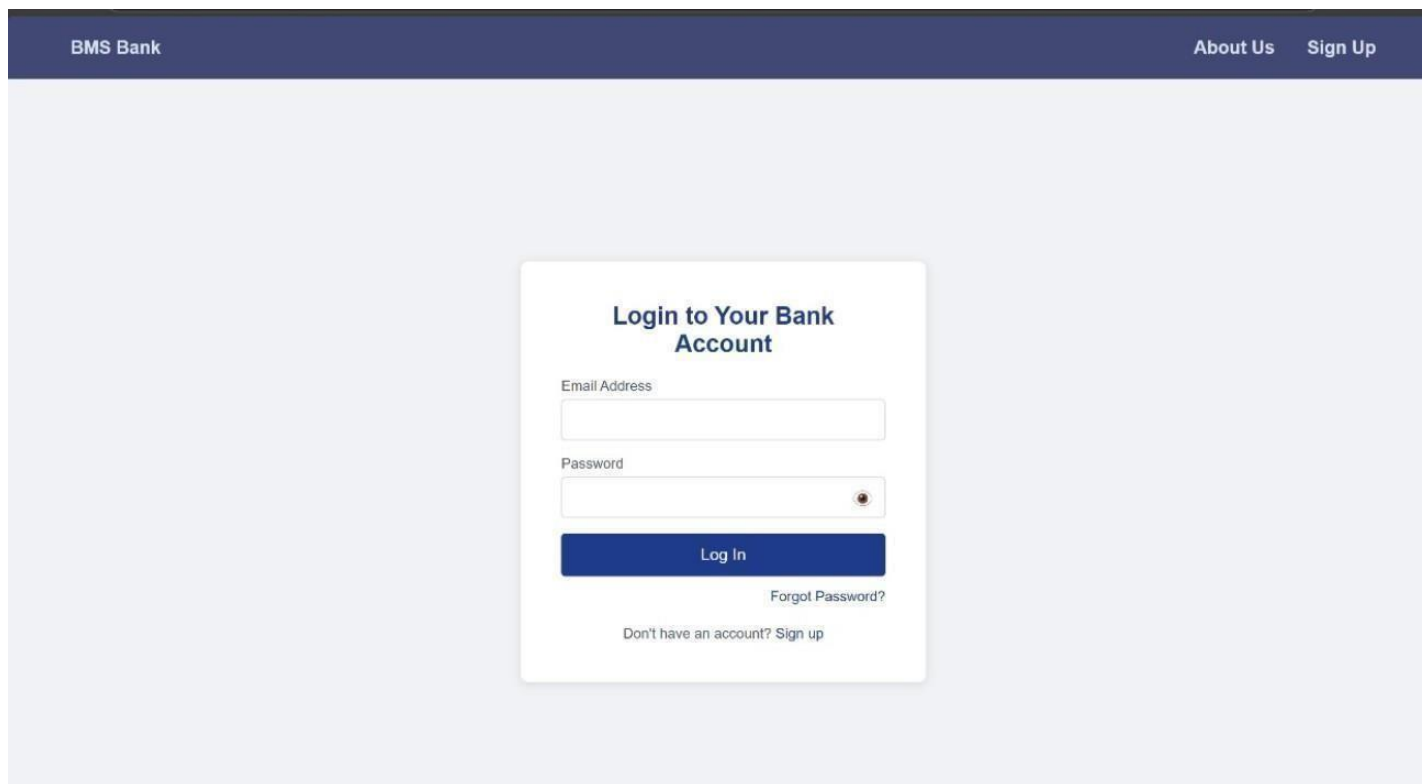
- **Phone:** Displays a contact number for direct assistance: **+91-80-26622130-35**.
- **Email:** Provides an email address for electronic communication: **info@bmsce.ac.in**.
- **Address:** Lists the physical address: P.O. Box No.: 1908, Bull Temple Road, Bangalore - 560 019 Karnataka, India.

3. Issue Reporting Form:

- **Account Number Field:** Allows users to enter their account number for identification.
- **Issues Field:** A text area for users to describe their problem or query.
- **Submit Button:** A button to send the entered details to the support team.

6.

Login to your account Page



The screenshot shows a web page for BMS Bank. The header is dark blue with 'BMS Bank' on the left and 'About Us' and 'Sign Up' on the right. The main content area is light gray and contains a white login form. The form has a title 'Login to Your Bank Account', an 'Email Address' input field, a 'Password' input field with a toggle icon, a blue 'Log In' button, a 'Forgot Password?' link, and a 'Don't have an account? Sign up' link.

A "Login to Your Account" page that requires an email address and password

1. Form Fields:

- **Email address Field:** A text input box labeled "Email address" where users can enter their email address.
- **Password Field:** A password input box labeled "Password" that hides the characters as they are typed for security.

- 2. **Login Button:** A clearly visible button labeled "**Login**" to submit the entered credentials for authentication.

7.

Our Mission and our Vision

Our Mission

Accomplish Excellence in the field of Technical Education through Education, Research and Service needs of society.

Our Vision

Promoting Prosperity of mankind by augmenting Human Resource Capital through Quality Technical Education & Training..

Our mission is to accomplish excellence in service of society

Our vision is to promote prosperity of mankind by augmenting HR Capital through Quality Tech Education and Training.

To set up an account:

8.

The image shows a web browser window with a dark blue header. On the left of the header is the text 'BMS Bank'. On the right are the links 'About Us' and 'Log In'. The main content area is light gray and contains a white registration form titled 'Create Your Bank Account'. The form has four input fields: 'Full Name', 'Email Address', 'Phone Number', and 'Create Password'. Below these fields is a prominent blue button with the text 'Sign Up'. At the bottom of the form, there is a small disclaimer: 'By signing up, you agree to our Terms of Service and Privacy Policy.'.

1. A registration form titled "Create Your Bank Account", which includes fields for:
 - Full Name
 - Email Address
 - Phone Number
 - Create Password
2. Call to Action: A prominent blue "Sign Up" button is placed at the bottom of the form to submit the details.
3. Footer Note: Below the form, there is a disclaimer indicating that by signing up, the user agrees to the bank's Terms of Service and Privacy Policy, with clickable links.

REFERENCES:

Reference of the website used :

<http://sawongambnk.atspace.cc/pages/home.php#services> Html : <https://www.w3schools.com/html/default.asp>

CSS : <https://www.w3schools.com/css/default.asp>

PHP : <https://www.w3schools.com/php/default.asp>