DATA MANAGEMENT AND ACCOUNTING ANALYSIS

A MINI PROJECT REPORT

for

Bachelor of Technology

In

CSE-DATA SCIENCE

Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

Submitted By

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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

2022-2023

DECLARATION

We hereby declare that this submission is our own work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Signature

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ACKNOWLEDGMENT

We would like to express my sincere gratitude to our project guide **“Mr. Raju Chauhan**” for giving us the opportunity to work on this project titled as “**Data Management and Accounting Analysis**”. It would never be possible for us to take this project to this level without his innovative ideas and his relentless support and encouragement.

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BONAFIDE CERTIFICATE

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ABSTRACT

The mini project is aimed at designing and developing a segment banking website that allows users to manage their accounts, make transactions, and access a range of financial services. The website will be built using modern web technologies and will be designed with a user-friendly interface that allows for easy navigation and access to key functions.

The key features of the banking website will include user registration and authentication, account management, transaction processing, balance inquiries, and support for a range of payment methods. The website will also be designed with strong security measures to protect user data and prevent fraud.

The objective of this mini project is to create a functional and user-friendly banking website that provides customers with easy access to financial services and enhances their overall banking experience. Through this project, we aim to demonstrate our ability to design and develop modern web applications that meet the needs of today's digital consumers.

CHAPTER 1

Introduction

1.1 Problem Definition:

With the increasing adoption of digital technologies, there is a growing demand for banking services that are accessible online. However, many traditional banks have struggled to provide customers with a user-friendly and secure online banking experience. Customers often face challenges such as slow transaction processing, limited functionality, and confusing interfaces.

To address these issues, we propose to design and develop a banking website that provides customers with a more streamlined and efficient online banking experience. The website will aim to overcome common challenges such as slow transaction processing, limited functionality, and confusing interfaces by incorporating modern web technologies and user-centered design principles.

Through this project, we aim to demonstrate our ability to develop a banking website that meets the needs of today's digital consumers and provides a more seamless and convenient online banking experience. By creating a user-friendly and secure platform for managing financial transactions, we hope to increase customer satisfaction and

help traditional banks remain competitive in an increasingly digital marketplace.

1.2 Objectives Of Project:

The objective of the project is to create a banking website that allows customers to open and manage their accounts online.

Features:

The website will have the following features:

- User registration and login: The website will allow users to create new accounts by providing their personal information and a username and password. Users will be able to log in to their accounts securely.

- Account management: Once logged in, users will be able to view their account information, including their balance and transaction history. They will also be able to update their personal information, such as their address or phone number.

- Account opening: Users will be able to open new accounts, such as savings or checking accounts, directly from the website.

CHAPTER 2

Proposed System & Project Description

2.1 Project Description:

This mini project involves designing and developing a banking website that provides customers with a user-friendly and secure online banking experience. The website will be built using modern web technologies and will incorporate best practices for user interface and user experience design, security, and payment processing.

The key features of the banking website will include user registration and authentication, account management, transaction processing, balance inquiries, and support for a range of payment methods. The website will be designed with a responsive layout that is optimized for use on desktop and mobile devices, and will include a range of interactive elements to enhance the user experience.

The website will be built using HTML, CSS, a popular JavaScript library for building user interfaces, and will use PHP as backend language and MySQL database for storing user data. The website will be hosted on a secure server

with HTTPS encryption and will incorporate strong security measures to protect user data and prevent fraud.

2.2 PROJECT MODULES:

The entire project is divided into **5 major units.**

- User Registration and Authentication Module: This module would allow users to register for an account and log in securely using their username and password. The module would also include password recovery and account verification features.
- Account Management Module: This module would allow users to view their account details, including their account balance, transaction history, and personal information. Users would also be able to update their profile information and manage their account preferences.
- Transaction Processing Module: This module would allow users to make deposits, withdrawals, and transfers between accounts.
- Balance Inquiries Module: This module would allow users to check their account balance and view their

transaction history. Users would also be able to filter transactions by date, type, and other criteria.

- Admin Dashboard Module: This module would provide bank administrators with a dashboard to manage user accounts, view transaction logs, and generate reports.

CHAPTER 3

FEASIBILITY STUDY

3.1 TECHNICAL FEASIBILITY:

To develop a banking website, technical expertise is required in web development, database management, and security. The website must be able to handle large amounts of data, and the database must be secure from any unauthorized access. It will be feasible if the required technical expertise is available.

3.2 Economical Feasibility:

The cost of developing a banking website can be high, considering the technical expertise required and the resources needed for development. The development costs should be compared with the potential benefits to ensure that the project is economically feasible.

3.3 Operational Feasibility: The banking website should be user-friendly, easy to navigate, and provide all the required information to the customers. The website should be easy to use, and the customers should be able to perform transactions with ease. The website should also be able to handle a large volume of users without any downtime.

3.4 Schedule Feasibility:

The schedule feasibility of a mini project on a banking website would evaluate whether the project can be completed within the proposed timeline and resources.

CHAPTER 4

THE SYSTEMS DEVELOPMENT LIFE CYCLE

(SDLC)

The systems development life cycle(SDLC),or software development process in systems engineering, information systems, and software engineering, is a process of creating or altering information systems, and methodologies that people use to develop these systems.

The Software Development Life Cycle (SDLC) for a banking website typically follows the following stages:

Planning: In this stage, the project team defines the project scope, goals, and objectives, and outlines the project requirements. The team also develops a project timeline, budget, and resource plan.

Analysis: In this stage, the project team conducts a detailed analysis of the project requirements and user needs. This includes gathering and documenting user requirements, analyzing the existing system, identifying potential risks and constraints, and developing a system architecture and design.

Design: In this stage, the project team designs the user interface, system architecture, and technical specifications.

Implementation: In this stage, the project team develops the system code, integrates system components, and tests the system functionality. This includes coding the user interface, implementing system functionality, and conducting unit and integration testing.
Testing: In this stage, the project team tests the system for usability, functionality, and performance. This includes conducting user acceptance testing, system testing, and performance testing.

Deployment: In this stage, the project team deploys the system to a production environment and performs any necessary configuration and setup. This includes installing the system software, configuring the system settings, and setting up user accounts.

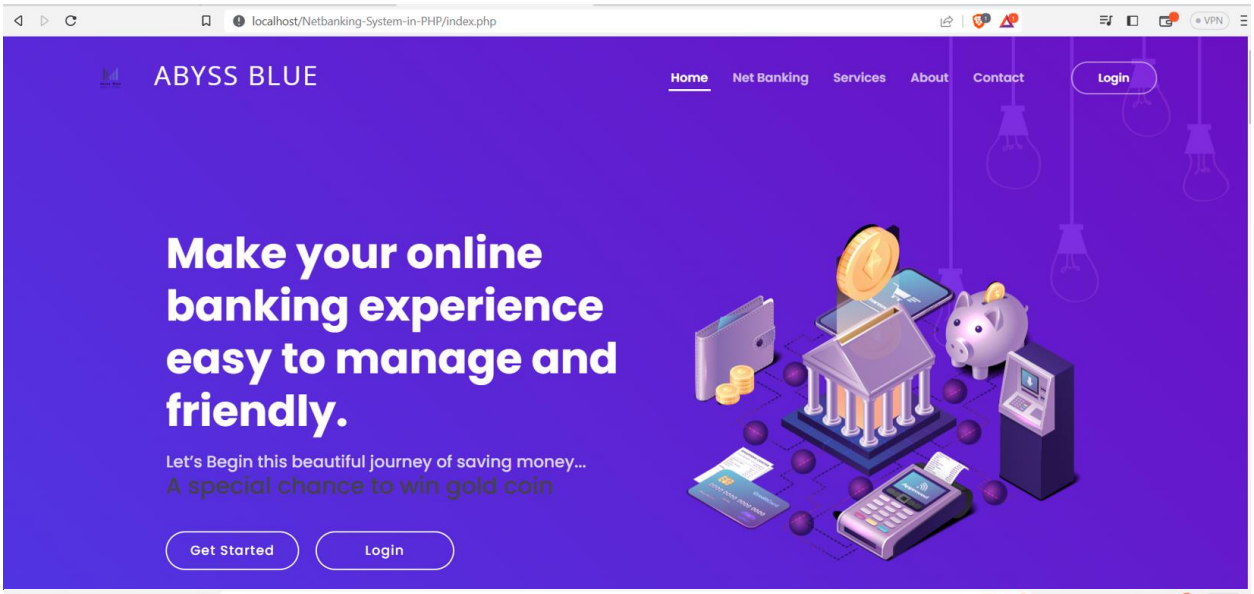
Maintenance: In this stage, the project team provides ongoing system maintenance and support. This includes addressing user feedback, fixing bugs and issues, and implementing system updates and enhancements.

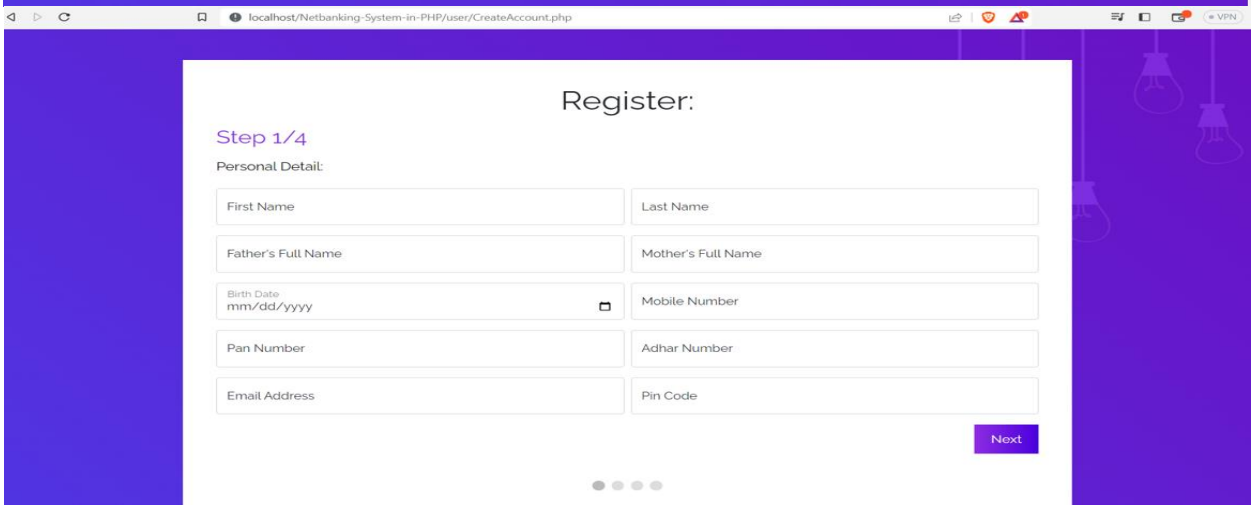
CHAPTER 5

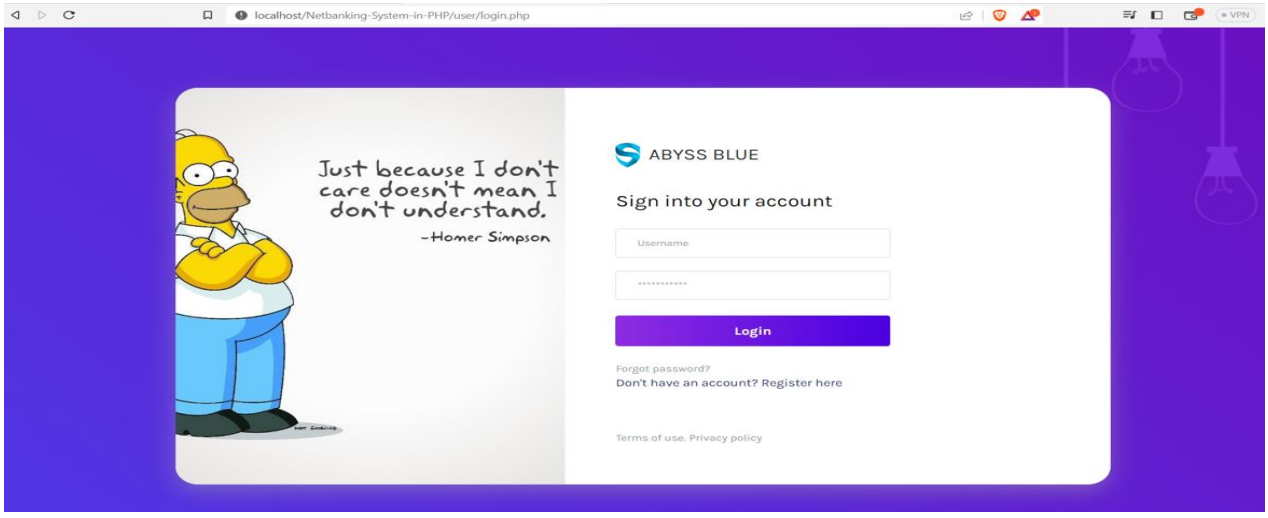
TECHNOLOGIES

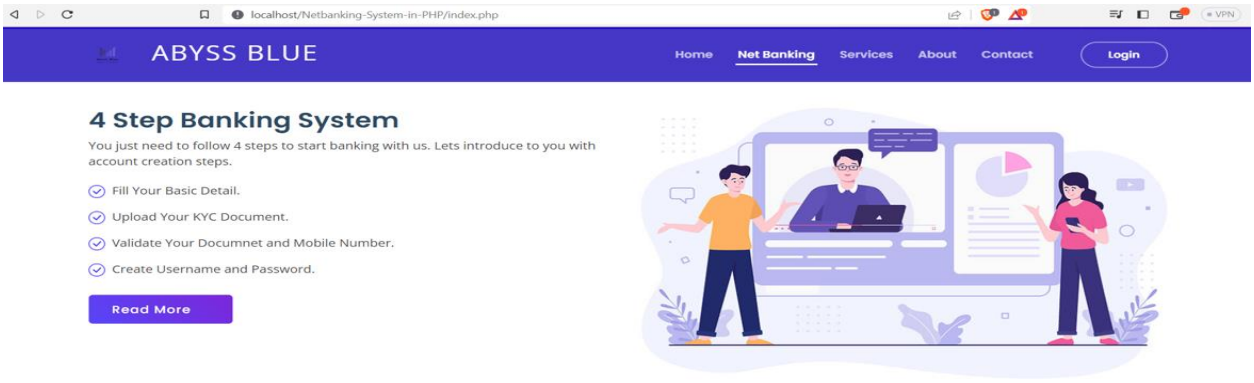
- HTML - HTML is the standard markup language for documents designed to be displayed in a web browser. We used this language because HTML is a simple language to learn and understand, it is free, no special software is required, HTML is supported by nearly all browsers worldwide such as Google, Safari, Opera, etc., In comparison to other web programming languages on the market, HTML is one of the most user-friendly search engines and HTML is a lightweight markup language that loads quickly.
- CSS - Cascading Style Sheets (CSS) is a simple mechanism for adding style (e.g., fonts, colours, spacing) to Web documents. We used this language because of its faster page speed, Better User Experience, Quicker Development Time, if you need to change the format of a specific set of pages, it's easy to do so with CSS. There's no need to fix every individual page. Just edit the corresponding CSS stylesheet and you'll see changes applied to all the pages that are using that style sheet, Compatibility Across Devices.
- JavaScript - JavaScript (js) is a light-weight object-oriented programming language which is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language that enables dynamic interactivity on websites when applied to an HTML document.
- MySQL - MySQL is an Oracle-backed open - source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX and Windows.

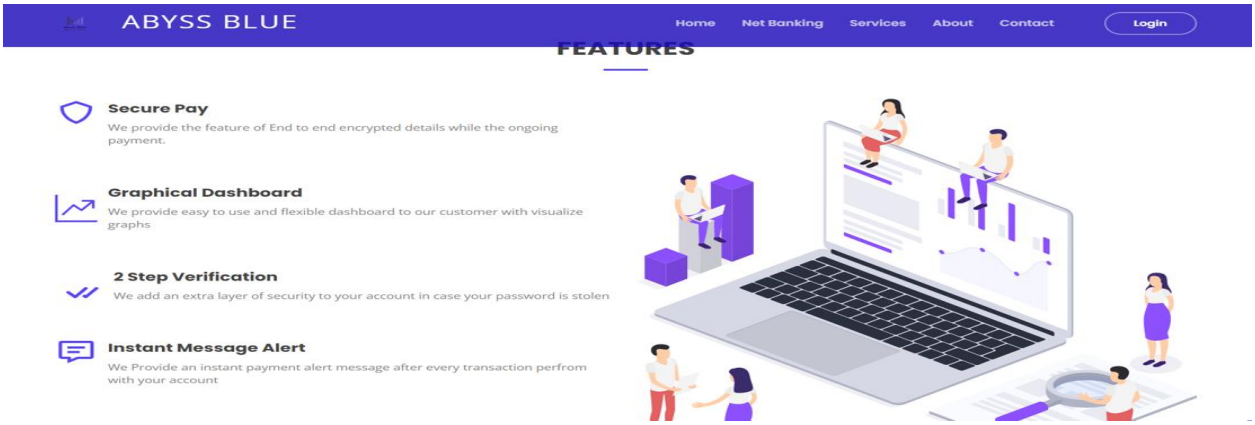
Screenshots

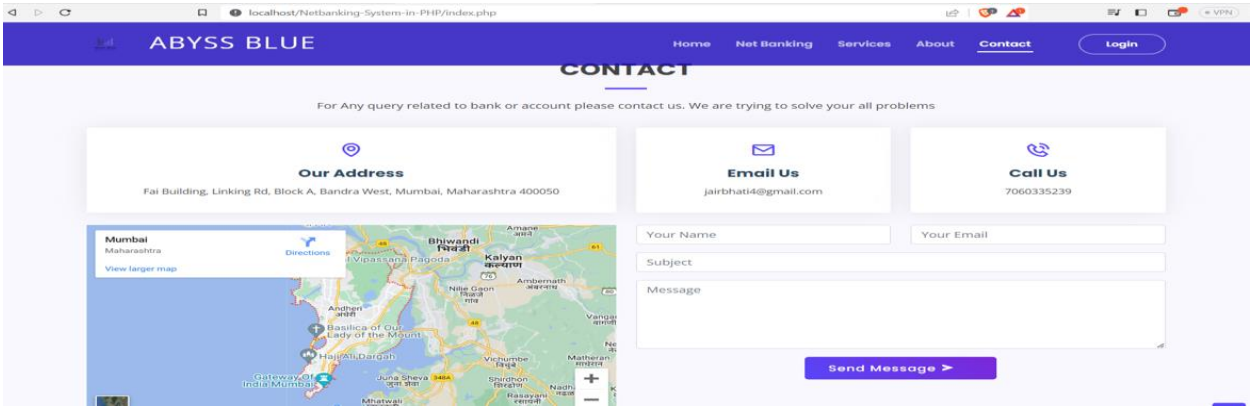







localhost/Netbanking-System-in-PHP/index.php
ABYSS BLUE
Home
Net Banking
Services
About
Contact
Login
4 Step Banking System
You just need to follow 4 steps to start banking with us. Lets introduce to you with account creation steps.
Fill Your Basic Detail.
Upload Your KYC Document.
Validate Your Documnet and Mobile Number.
Create Username and Password.
Read More


ABYSS BLUE
Home
Net Banking
Services
About
Contact
Login
FEATURES
Secure Pay
We provide the feature of End to end encrypted details while the ongoing payment.
Graphical Dashboard
We provide easy to use and flexible dashboard to our customer with visualize graphs
2 Step Verification
We add an extra layer of security to your account in case your password is stolen
Instant Message Alert
We Provide an instant payment alert message after every transaction perfrom with your account


localhost/Netbanking-System-in-PHP/index.php
ABYSS BLUE
Home
Net Banking
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About
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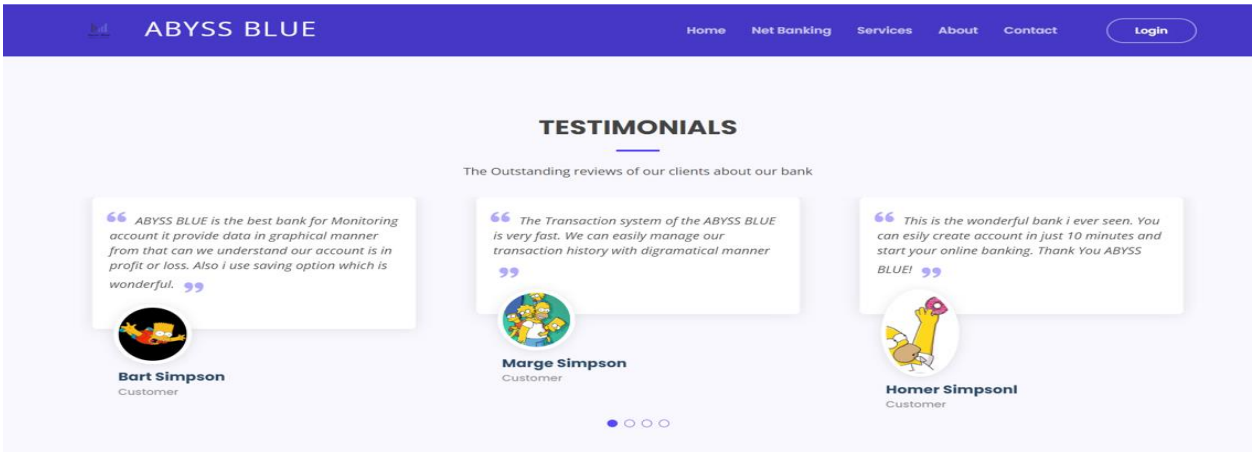
Login
CONTACT
For Any query related to bank or account please contact us. We are trying to solve your all problems
Our Address
Fai Building, Linking Rd, Block A, Bandra West, Mumbai, Maharashtra 400050
Email Us
jairbhati4@gmail.com
Call Us
7060335239
Mumbai
Maharashtra
Directions
View larger map
Your Name
Your Email
Subject
Message
Send Message


ABYSS BLUE
Home
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About
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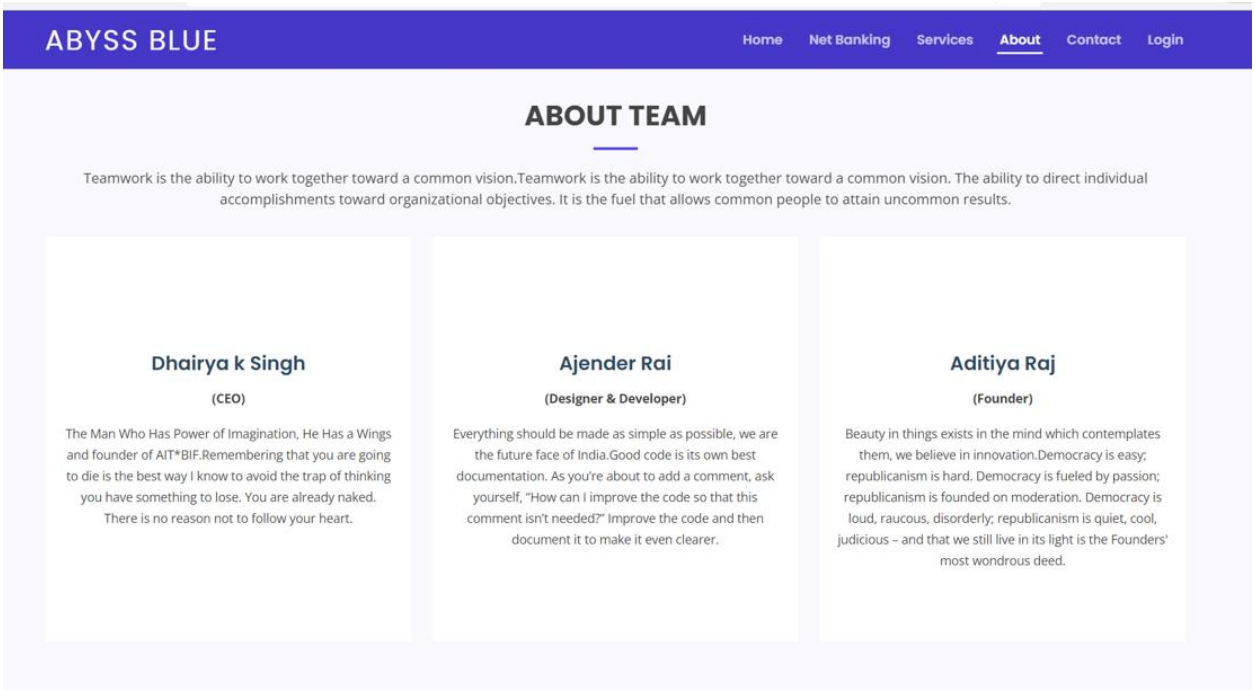
Login
TESTIMONIALS
The Outstanding reviews of our clients about our bank
ABYSS BLUE is the best bank for Monitoring account it provide data in graphical manner from that can we understand our account is in profit or loss. Also i use saving option which is wonderful.
Bart Simpson
Customer
The Transaction system of the ABYSS BLUE is very fast. We can easily manage our transaction history with digramatical manner
Marge Simpson
Customer
This is the wonderful bank i ever seen. You can esily create account in just 10 minutes and start your online banking. Thank You ABYSS BLUE!
Homer Simpsonl
Customer


ABYSS BLUE
Home
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ABOUT TEAM
Teamwork is the ability to work together toward a common vision.Teamwork is the ability to work together toward a common vision. The ability to direct individual accomplishments toward organizational objectives. It is the fuel that allows common people to attain uncommon results.
Dhairya k Singh
(CEO)
The Man Who Has Power of Imagination, He Has a Wings and founder of AIT*BIF.Remembering that you are going to die is the best way I know to avoid the trap of thinking you have something to lose. You are already naked. There is no reason not to follow your heart.
Ajender Rai
(Designer & Developer)
Everything should be made as simple as possible, we are the future face of India.Good code is its own best documentation. As you're about to add a comment, ask yourself, "How can I improve the code so that this comment isn't needed?" Improve the code and then document it to make it even clearer.
Aditiya Raj
(Founder)
Beauty in things exists in the mind which contemplates them, we believe in innovation.Democracy is easy; republicanism is hard. Democracy is fueled by passion; republicanism is founded on moderation. Democracy is loud, raucous, disorderly; republicanism is quiet, cool, judicious – and that we still live in its light is the Founders' most wondrous deed.

CONCLUSION

The Project “Data Management and Accounting Analysis” proves to be an effective solution for managing banking operations, improving customer service, and increasing efficiency. The website provides users with a secure login system to access their accounts, manage their account information, view transaction history, pay bills online, and get customer support when needed.

The project was developed using a range of technologies, including front-end technologies like HTML, CSS, and JavaScript, and back-end technologies like PHP and database management systems like MySQL. Various development tools and security technologies were also used to ensure the website's functionality and safety.

Overall, the bank management system website project is a great example of how technology can be used to streamline banking operations, improve customer service, and make banking more accessible and convenient for everyone. With its user-friendly interface and robust security features, the website is sure to meet the needs of both customers and bank administrators.

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