ONLINE BANKING SYSTEM

# PROJECT SYNOPSIS

### OF MINOR PROJECT

**BACHELOR OF TECHNOLOGY**

### CSE

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# PROJECT ON ONLINE BANKING WEBSITE

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## Introduction to Project

The “Online Banking System” has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by the existing system. Moreover the system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provide error message while entering the invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Online Banking System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help to organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Account, bank, Customer, Transaction. Every Online Banking System has different Bank needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details of your future goals. Also, for those busy executive who are always on the go, our systems come with the remote access features, which will allow you to manage your workforce anytime. These systems will ultimately allow you to better manage resources.

## 2. Why this project is needed?

When every day is a race against time in our busy lives, we are looking at saving time everywhere possible. When it comes to daily errands, online banking has made the visits to bank a rare occurrence.

**Security Assured**

Since online banking is one of the major services offered by banks, it is also a highly secure platform. Banks generally use encryption devices to ensure that all client information is protected and there is no security breach. It ultimately provides you security from online frauds and account hacking.

**Access: No Problem**

Even if it is the last day of your bill payment and you are minutes away from being levied a penalty, you can rely on online banking. Online transactions can be performed anytime of the day from the convenience of your home. Not just that, instead of being physically present for huge amount of transactions, you can safely transfer funds at any time, completely hassle-free.

**No Hidden Fees**

Despite the convenience being provided, there are no hidden fees associated with making online transactions. All you are charged is a nominal transaction convenience and the rest is managed by your bank.

**Convenience Guaranteed**

While easy access is one of the many benefits of online banking, it also makes banking highly convenient. The need of waiting in long queues at the bank is completely eliminated. Moreover, with [**mobile banking**](https://www.yesbank.in/digital-banking/mobile-solutions) option available for most banks, transfers and payments have become easier. Transactions can be completed on the go, whether you are stuck in a traffic jam or in the midst of work. This makes it even easier to check your balance before making cashless purchases to avoid embarrassment if your account doesn’t have the balance to purchase everything on your shopping list.

**Monitor Your Accounts Closely**

Lastly, budgeting and managing your account is made simpler when you have access to e-banking and a good budgeting application at your fingertips. Real time expenses can be monitored while making purchases or estimating your monthly savings and expenses.

With all these benefits and many more adding to the list, it is difficult to opt out of using facilities like online banking for smoother banking transactions.

## Objective and Scope

* The main objective of the online Banking System is to manage the details of Accounts, Transactions, Block account, Loan, Change your PIN. It manages all the information about Accounts, Customer, Statement. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Accounts, Transaction, Customer. It tracks all the details about the transaction, Balance , Block Accounts etc.
* It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management. It also helps in current all works related to Online Banking System. It will also reduced the cost of collecting the management and collection procedure will go on smoothly.
* The system generates types of information that can be used for various purposes.
* It satisfy the user requirements.
* Be easy to understand by the user and operator.
* Be easy to operate.
* Have a good user interface.
* To allow only authorized user to access various function and processed available in the system.

Banking activities are considered to be the life blood of the national Economy. Without banking services, trading and business activities cannot be carried on smoothly. Banks are the distributors and protectors of liquid capital which is of vital significance to a developing country.

Efficient administration of the banking system helps in the economic Growth of the nation. Banking is useful to trade and commerce.

## Literature Review

1. This journal elaborates how the food delivery system is the new requirement of urban consumers. These services provide customers with choice, various options and other flexibility and convenience features.
2. This journal presents a detailed analysis of how third-party aggregators (e.g., Food panda, Swiggy, Zomato and Uber Eats) are leading the marketplace and why restaurants need their own food delivery system to survive in the competition.
3. In times of COVID-19, food delivery applications helped restaurant owners to survive in such difficult times while ensuring safety protocols for both restaurant owners and customers.
4. The knowledge obtained by studying individuals who frequently use online food services reveal that individuals have made this service as a part of their established routine.

## Feasibility Study

### Economic Feasibility

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

* + All hardware and software cost must be borne by the organization
  + Overall, we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later running cost for system.

### Technical Feasibility

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend platforms.

### Operational Feasibility

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far as our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

### Market Feasibility

According to recent surveys, the customers are easily attracted towards applications and websites providing services at their doorstep. Thus, our website purely serves that purpose and attract audiences over a short a period.

## Methodology

del, View and Controller:

For this project, the MVC approach has been used. The user interface i.e. the frontend has been modeled in a separate page than the others. The model is populated by the views for which is in turn all controlled by the controller. The use of the MVC model makes it an easy Web Application to work with for the developers and also makes for a good user experience.

Model:

The model constitutes of all the modules, middleware, database connection and all other pre-requisites for the proper functionality of the Web Application. It also constitutes of the logics required to be executed for various requests that the client may produce.

Views:

The views constitute of all the webpages to be served whenever required. The webpages are made by using HTML, CSS, JavaScript and the Pug template engine. The views are accessed and rendered by the router.

Controller:

The controller constitutes of all the functions that are to be invoked for the various requests that a client may produce. These functions are in-turn used to implement the logic that is to be executed for the particular request. Every feasible request has been exactly mapped to one and only one controller function. All non-feasible requests have been mapped to appropriate errors. These errors are handled by a common “error-logic” and a common error page.

In case of successful actions, the outcome is handled by appropriate logic in their respective sections and the outcome is displayed by a common template-based “success page”.

## Software requirements for Project

### Languages and Framework

For this project, we decided to use JavaScript, as well as HTML and CSS. Hypertext markup language (HTML) is a markup language necessary for building a web application, it is used to describe the structure of a web page. A cascading style sheet (CSS) should also be added for a better design. While HTML is used for structuring the web page, CSS is used for styling. It enables to have complete control over the colors, fonts, and other important aspects of web design. In addition to those two languages, we used JavaScript, which makes the page more dynamic and interactive. We used Node.js framework for backend.

### Node.js

Node.js is a runtime environment for JavaScript, it was first release in 2009 to run JavaScript code on the server side. The particularity of NodeJS is its single threaded nature, which can be a drawback, but thanks to the non-blocking I/O, it can support thousands of concurrent connections.

### MySQL

MySQL is easy to use, yet extremely powerful, secure, and scalable. And because of its small size and speed, it is the ideal database solution for Web sites.

## Hardware requirements for Project

A desktop computer with AMD Ryzen-5 64-bit processor and Graphic card,8 GB RAM, and Microsoft Windows 10 operating system was used.

## Minimum Software/Hardware requirements for Project

Operating System: Windows 98, Windows XP, Windows 7 and above. Browser: Any of Mozilla, Opera, Chrome, etc.

Processor: Pentium III 630MHz RAM: 128 MB

Hard Disk: 20 GB

Monitor: 15’’ Color Monitor **7**

## Outcomes:

* + With the help of this system, people can easily order the food. It can also ensure that the people do not waste their precious time and use their time productively in the other works. In long run, this will ensure that it helps to reduce labor cost. This system proves to be more cost effective and reliable over other systems. This system is difficult to forge or cheat when compared to other systems in terms of payment for the food. It is very easy to use and has least maintenance. It does not require any human intervention and thus can be called fully automated. There are not any limitations as such for this system, however one needs to take care of the smaller parameters like server breakdown while this system is implemented.
  + An online food ordering system is developed where the customers can make an order for the food and avoid the hassles of waiting for the order to be taken by the waiter. Using the application, the end users register online, read the E-menu card, and select the food from the e-menu card to order food online. Once the customer selects the required food item the chef will be able to see the results on the screen and start processing the food. This application nullifies the need of a waiter or reduces the workload of the waiter. The advantage is that in a crowded restaurant there will be chances that the waiters are overloaded with orders and they are unable to meet the requirements of the customer in a satisfactory manner. Therefore, by using this application, the users can directly place the order for food to the chef online.

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