BANKING LOCKER

Jay Vekariya[1], Krutik Undhad[2], Rutvik Zalavadiya[3], Viral Vaghasiya[4], Prof. Ganesh Patidar[5].

B.Tech Department of Inforamation Technology[1].

Parul Institute of Engineering & Technology[2].

Vadodara, Gujarat, India.

Abstract: Banking Technologies which include Cloud Computing and Mobile Applications have emerged as catalysts for rapid economic growth and citizen empowerment across the globe. Banking technologies are being increasingly used by us in everyday lives from retail stores to government offices. They help us to connect with each other and also to share information on issues and concerns faced by us. In some cases they also enable resolution of those issues in near real time. Digital Locker is one of the ambitious aspects of Digital India Programme. Thus this paper takes an overview about what is all about Digital India with its nine pillars, challenges & changes. Further this paper explain Banking locker i.e. Banking locker concept with features, objectives of Banking locker, & creating a Banking locker Account with example.

Keywords: Banking Locker, E-Monetize, Digital Infrastructure, Digital Latency, Finger Print Scan, Scanner.

1. INTRODUCTION

Nowadays everything is being digitalized and most important people have documents. documents can be of any type such as Aadhar cards, election cards, property documents, bankdetails, birth certificate degrees, etc. are required and very valuable documents need to be kept safe. Hard copies are difficult to keep safe and have to be kept in a safe locker or bank locker which is dangerous. It is likely to be stolen. It is also very important to keep safe documents like bank documents, account numbers, IFSC codes, bank statements, passwords,signs, balance sheets, etc.

Currently, everything can be searched online and viewed online. So we can also save the document online and if needed we can view it and perform the operation. For this, we want to create software. We can upload debit cards, and credit cards. And the user can use this document as a fingerprint password to keep it safe from others.

Documents and the required password can be lost anywhere in the home or office. Keeping it in paper form can tear it into the hands of a small boy in the house. A copy of the signature can be misused by me. Duplicate copies of documents can be modified to create false documents and be fraudulent with others. All these problems can be solved if the paper is password protected as a soft copy.

Bank documents such as passbooks, checkbooks, bank statements, LOAN & FD documents inthe form of paperwork are in the hands of others.

2. METHODOLOGY

We investigate several projects. Then they are narrowed down to the functionality which we want our system to predict. The possible solution for those items is surveyed. Fixed representation of data is constructed. We have made a few modulesfor our system.

2.1 FEASIBILITY STUDY

Here, I will carry out a study to gain an understanding of the customer current system and problems experienced in this system througs inteviews, observations and participation This project must help people who can't live for more and their bank properties can safe in our locker.

2.2 REQUIREMENT AND ANALYSIS

At this stage, I will gather information about what the customer needs and define the problems the system is expected to solve. I will also include customers‟ business context, product functions and its compatibility. We will absorb information, including software, for example the programming language that will be used, database model, and hardware such as laptops, mobiles and so on.

2.3 DESIGN PHASE

At this point, We will develop a general design of such proposed system as well as an interface layout that involves a front-end and data dictionary. We will discover any flaws at this level before proceeding to the next. The output of this stage is the design specification which is used in the next stage of implementation.

3. IMPLEMENTATION

3.1 FRONT-END TECHNOLOGY

A development environment that is integrated (IDE) made by Microsoft is called Visual Studio. It is used to build software for computers, websites, both mobile and web services applications. Visual Studio makes advantage of Microsoft's platforms for software development, like Windows Store, Windows Presentation Foundation, Windows API, and Windows Forms. It can produce managed and native code.

There are now 36 different programming languages supported. Among the built-in languages are C,[8] C++, C++/CLI, Visual Basic.NET, C#, F#, JavaScript, TypeScript, XML, XSLT, HTML, and CSS. Additional languages can be supported using plug-ins, such as Python,[10] Ruby, Node.js, and M. Java (and J#) were supported in the past.

3.2 BACK-END TECHNOLOGY

Microsoft created the relational database management system known as Microsoft SQL Server. It is a software product known as a database server, and its main job isto save and retrieve data when other software programmes are not available, which may operate an identical computer or on a different using a networked computer, require it (as well as the Internet). Microsoft offers there are at least a dozen different SQL Server editions. that are targeted by various clientele can handle varying workloads from light single-machine programs huge Internet-facing programs with several concurrent users.

3.3 SYSTEM FUNCTION

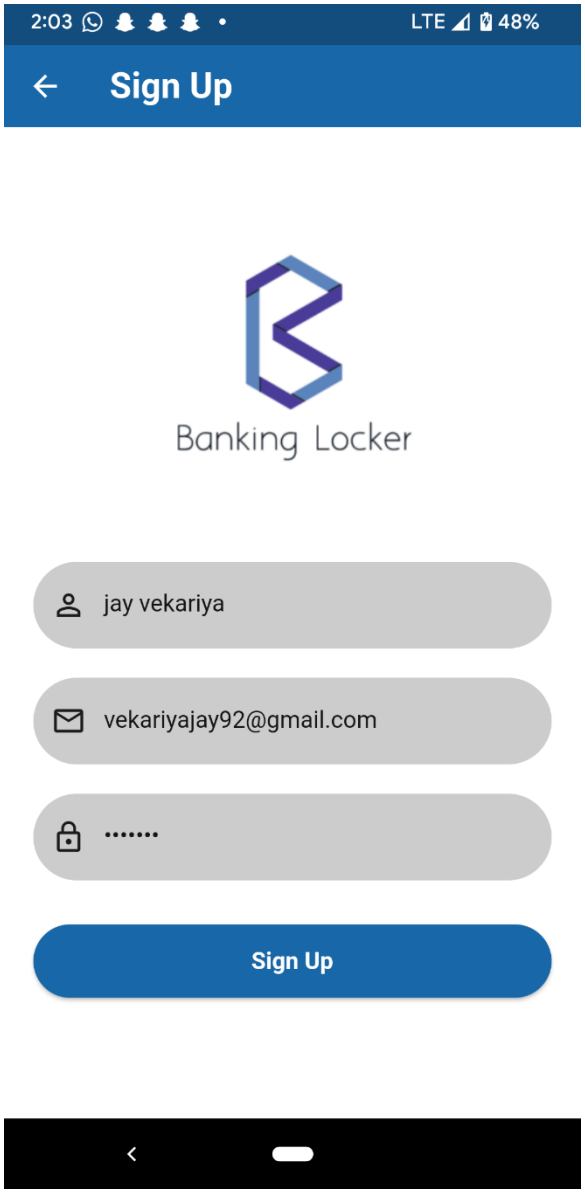

Figure 3.3.1 Diagram of Sign Up Page

Figure 3.3.2 Diagram of OTP Verification

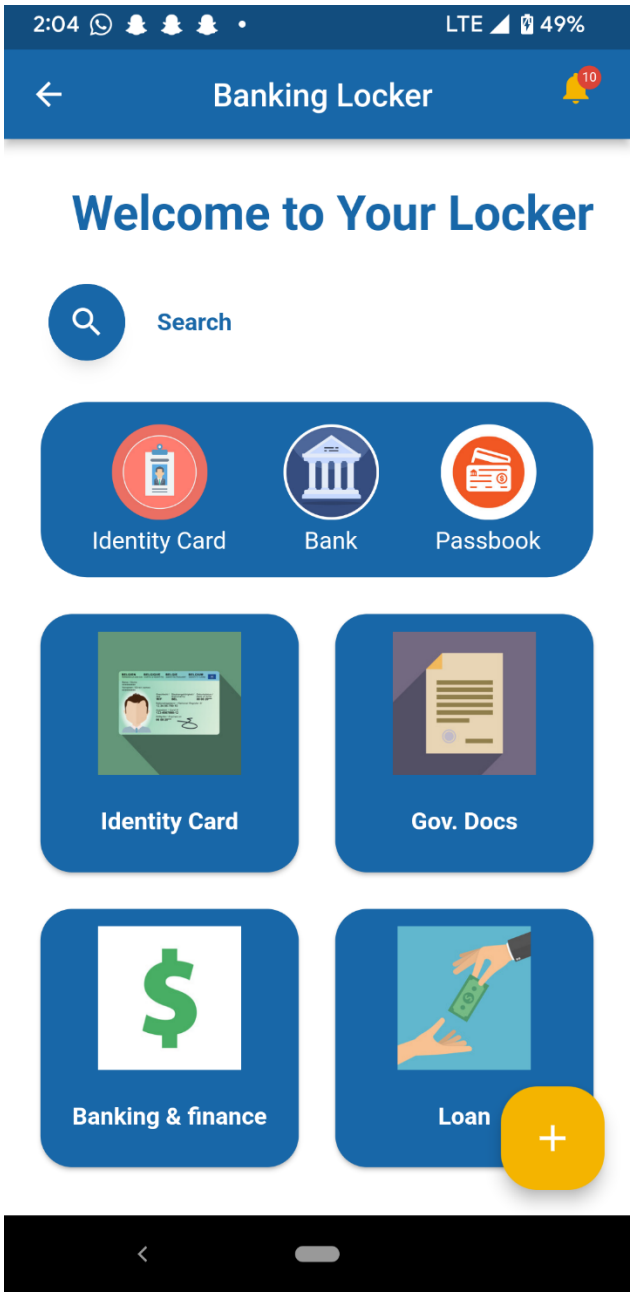

Figure 3.3.3 Diagram of Home Page

4. CONCLUSION

From lots of research and case studies from papers and websites, we decide to make a project bank locker for all saved account details, passbook, balance, payment history, etc. With many safety features. This project must help people who can't live for more and their bank properties can safe in our locker. We are going to make the system to facilitate the implementation of the final year project for Parul University students. The Bank locker can significantly reduce the workload of Users. Lots of tasks can be done automatically in the system like safely saving important documents, bank accounts, and passwords with bio-metrics authentication. First, Users can add their documents and details along with two family members' bio metrics as well as themselves. Finally, Users can get or retrieve their documents and data about their bank account which they uploaded in the past at any time. Also, provide facility privacy and security.

5. REFERENCE

[1] Chik Warren B. "The Future of Bank Lockers." The Management Accountant Journal, Vol. 56, issue no. 10, 2021, pp.97

[2] Patel Kartik R. , Mulye Santosh K. , "3D Password- Future of Digital Lockers" IOSR Journal of Computer Engineering (IOSR-JCE), Vol.22, issue no. 12,2019. pp.1-9.

[3] Nandan B., Devulapally D. , Edukulla K. , Manikanta Karipe V. "Secure Digit Locker Application." IOSR Journal of Computer Engineering (IOSR-JCE), Vol. 20, Issue no. 2, 2018, pp. 73-78.

[4] Askarin Mohammad M. , Wong K. , Phan Raphaël C. , “Reduced contact lifting of latent fingerprints from curved surfaces.” Journal of Information Security and Applications, Vol. 53, issue no. 2214-2126, 2020, pp.36.

[5] Falmari Vinod R., Brindha M. “Privacy preserving cloud based secure digital locker using Paillier based difference function and chaos based cryptosystem.” Journal of Information Security and Applications, Vol. 53, issue no. 2214-2126, 2020, pp. 10.

[6] Masud M.A. , Chowdhury M.A. , “Design and prototyping of a security locker system for public places using RFID technology.” international journal of information technology. Vol. 14, issue no. 579–585 ,2022, pp. 98.

[7] Ramani R. , Selvaraju S. "Bank Locker Security System based on RFID and GSM Technology", International Journal of Emerging Technologies and Innovative Research, Vol.3, issue no. 5,2016, pp.66-71.

[8] Mostakim N. , Sarkar Ratna R. ,Hossain A. ”Smart Locker: IOT based Intelligent Locker with Password Protection and Face Detection Approach.” I.J. Wireless and Microwave Technologies, Vol. 3, issue no. 10, 2019 , pp. 1-10.

[9] Roy M., Minhazuddin M., Ghosh S., Sarkar K. ,Rana K., "Smart transaction and automation system for banks," 2017 1st International Conference on Electronics, Materials Engineering and Nano-Technology, Vol. 50, issue no. 15, 2017,pp. 1-5.

[10] Tajane K., Patil S., Pitale R., Tajane M. “Enhancing Security of Banking Locker System Using Secret Sharing Scheme Based on Random Grids.” Emerging Research in Computing Information Communication and Applications. Springer, New Delhi, Vol. 12, issue no. 14, 2019, pp. 45.

[11] Sonali P. , Mayur T. , Rahul P. , and Kapil T.”enhancing the banking locker system's security by implementing a covert sharing scheme based on random grids”. Departments of CSE at Pimpri Chinchwad College of Engineering, Vol.13, issue no.202,2019, pp.349.

[12] chinna babu J. , Naveen Kumar Raju K. "Safety Locker System with Image Identification by Using IOT.", Modern Approaches in Machine Learning & Cognitive Science: A Walkthrough, Vol. 1027,issue no.10,2022,pp. 415-422.

[13] Keerti U. , Aishwarya A. ,Jyothi N. ,Inchara S.M. , Priya Dharishini P.”Smart E-Locker System using IOT.”, Intelligent Data Communication Technologies and Internet of Things (IDCIoT), Vol. 11, issue no. 1109, 2023,pp. 105-110.

[14] Ashiqul Islam Md. ,Sumon Sarder Md. ,Hasan Mamun M. ,Ahmed F. ,Sujit Kumar S. ,Aunik Hasan M. ,Tanvir Ahmed Md. ,Tania K. “Multi Level Bank Locker Security System with Digital Signature Authentication and Internet of Things.”, Daffodil International University, Vol. 5, issue no. 105, 2022, pp. 25-31.