

TITLE OF THE TRAINING PROJECT

A SUMMER TRAINING REPORT

Submitted by

NAME OF STUDENT

UID

in partial fulfilment of summer training for the award of the degree

of

BACHELOR OF ENGINEERING

IN

BIG DATA ANALYTICS



CHANDIGARH UNIVERSITY

Discover. Learn. Empower.

**APEX INSTITUTE OF TECHNOLOGY
CHANDIGARH UNIVERSITY, GHARUAN
MOHALI, PUNJAB
<MONTH YEAR>**

ABOUT THE COMPANY

Arsal Software Solution is a customize software development and website designing company in Dehradun Uttarakhand which is working in the field of research, training and development for many years.

Arsal Software Solution is established with a vision to provide best quality services to its clientele. We understand that each customer is unique and requires high quality solution, so we thoughtfully and carefully approach every project and each client to deliver the best services without delay.

Their services to customers are greatly concerned with ROI (Return on Investment). They empower customer imagination by providing proper guidance regarding what should be computerized and what should remain manual.

For over many years, their development standards cater to performance, usability, security and scalability of a web application. Their expertise in management tools helps upgrade your existing applications to a better platform.

CERTIFICATE



Arsal Software Solution

Empowering Imagination

Address: Oghal Bhatta, C-20 Lane No.4, Dehradun
Tel: 9759202241, E-mail: info@arsalsoftware.com
Website: www.arsalsoftware.com

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Ms. Stuti Srivastava d/o Mr. Deepak Ranjan a student of BE-CSE from Chandigarh University has undergone her semester Industrial Training at Arsal Software Solution, Dehradun Uttarakhand from 15-Jun-2021 to 25-Sep-2021.

She has successfully completed her project in java web application. During the training she took keen interest in completing the work assigned to her.

We wish her all success in her academic endeavors and in life.

Date: 28-Sep-2021

Project Manager

Mr. Ajay Bansal

ACKNOWLEDGEMENT

The success and end result of this project requires a lot of guidance and endorsement from many persons and I am fortunate to get all of these throughout my entire internship project. I was able to accomplish this project only with such assistance and supervision and therefore, I will never forget to thank them.

I respect and thank Mr. Ajay Bansal who gave me the opportunity to work on this specific project at Aarsal Software and gave me all the support and guidance that motivated me to complete the project properly. Despite being busy dealing with corporate matters I am very grateful to him for such admonition.

ABSTRACT

The content of an abstract must answer or address the needs of every issue happen in bank management system project. These issues could be lacking of security in manual managing of bank accounts or to address the efficiency of banking transactions by making the management system an online project. For example: To create a project for resolving a customer's financial applications in a banking environment in order to meet the needs of an end banking user by giving multiple ways to accomplish banking chores. Also, to provide additional features to the user's work space that aren't available in a traditional banking project.

The Bank Management System in JavaScript is a system project created using HTML, CSS, and JavaScript. JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else, can update and change both HTML and CSS.

The Bank Management can be generated by the user by providing an initial deposit amount. Then, just by providing the user account number and entering the sum, the user can also deposit and withdraw cash. The consumer can also verify the customers and their balance. A new account can be established by the user, withdraws and deposit amount, balance demand.

CONTENTS

Title Page	i
About the Company	ii
Certificate	iii
Acknowledgement	iv
ABSTRACT	v
CONTENTS	vi
List of Photographs	ix
CHAPTER 1 INTRODUCTION	1
1.1 General introduction	1
1.2 Function and need	1
1.3 User	1
1.4 Technology used	2
1.5 Module description	3
1.6 Scope of facilities	4
CHAPTER 2 THEORY	6
CHAPTER 3 METHODOLOGY USED	7
CHAPTER 4 RESULT AND DISCUSSION	9
CHAPTER 5 CONCLUSION	10
REFERENCES	
APPENDICES	

LIST OF PHOTOGRAPHS



Login id:	<input type="text"/>
Login Password:	<input type="password"/>
<input type="submit" value="Submit"/>	



Create New Account

Enter Name:

Enter Gender:
M: ☐ F: ☐

Enter Phone No.:

Enter Email Id:

Enter Address:

Enter SSNO/Aadhaar No.:

Enter PAN NO.:

Enter DOB:

Select Qualifications:
Int. ☐ Graduation ☐ Post Graduation ☐

Account Type:

Select Image To Upload No file chosen

Welcome hope

Deposit Amount

Enter Account No.

Account name :

Account Type :

Balance :

Account No. :

Enter Deposit Amount :

Remark

Proceed

Welcome hope

Withdrawal Amount

Enter Account No.

Account name :

Account Type :

Balance :

Account No. :

Enter Withdrawl Amount :

Remark

Proceed

MINI STATEMENT











Enter Account No.

Account name :

Account Type :

Balance :

Date	Time	Deposit	Withdraw	Remarks
------	------	---------	----------	---------

Account No.	Name	PhotoId	Gender	D.O.B	Phone no.	Address	Qualification	Balance	Status
1	Stuti Srivastava		F	2001-12-17	1881275336	Ropar, Punjab	nullGraduationnull	1000499	Active
2	Rohit		M	1991-01-18	1881275336	Punjab	Intermediatenullnull	5000	Active
3	James		M	1991-01-29	7273883821	Karnataka	IntermediateGraduationPostGraduation	9000	Active
4	Manyak sharma		M	2021-02-12	7273883821	Rupnagar, Punjab - 140113	nullnullnull	9705	Active
5	ManyakSharma		M	2021-06-16	7273883821	Rupnagar, Punjab - 140113	Intermediatenullnull	200	Active
6	MeenaMehra		M	1983-06-21	7273883338	Shimla Himachal Pradesh	PostGraduation	10023	Active
7	Sahil		M	2021-07-05	7654333333	ajsahjshauheuhuhjhas	PostGraduation	0	Active
8	Surbhi		F	1998-06-28	7654333311	Jaipur, Rajasthan	Graduation	0	Active
9	Shikha		F	2021-07-01	7087143369	Ambala, Haryana	Intermediate	0	Active
10	Shikha		F	2021-07-01	7087143369	Ambala, Haryana	Intermediate	0	Active

CHAPTER: 1 INTRODUCTION

1.1. General Introduction

The main objective of the project is to develop online Banking system for banks. The Bank Management System (BMS) is an online application utilized for paying monetary foundations for the administrations they give to the Bureau of the Fiscal Service. BMS additionally gives scientific instruments to survey, and support pay, financial plans, and outpourings. In present system all banking work is done manually. User have to visit bank to Withdrawal or Deposit amount. In present bank system it is also difficult to find account information of account holder. In this bank management system, we will automate all the banking process. In our bank management system user can check his balance online. In this Software you can keep record for daily Banking transactions. The main purpose of developing bank management system is to design an application, which could store bank data and provide an interface for retrieving customer related details with 100% accuracy.

This bank management system also allow user to add new customer account, delete account and user can also modify existing user account information. Using this system user can also search any individual account in few seconds. Using our bank management system user can also check any translation in any account. The system will check the user's existence in the database and provide the set of services with respect to the role of the user.

Our software will perform and fulfil all the tasks that any customer would desire. Our motto is to develop a software program for managing the entire bank process related to customer accounts, employee accounts and to keep each and every track about their property and their various transaction processes efficiently. Hereby, our main objective is the customer's satisfaction considering today's faster world.

1.2. Functions and need

The main objective is to create a web-based only system. which will help to maintain the bank account records, Maintain the transaction records of the customers. Easy to track all the banking activity a centralized system to maintain all the bank activity. Let's check the project description with the role of different users.

This Project contains all the basic activities of the bank

1.2.1. Function:

Following activity performs by bank admin.

- The bank can ADD/EDIT/UPDATE new customers.
- Admin can ADD/EDIT/UPDATE Bank.
- The bank can ADD/EDIT/UPDATE transactions as per the customer request.

When a new user will be added under any bank. A unique account number will generate automatically for the customer that the user will use this during the transactions.

1.3. User:

User can perform following crud operation.

- Users can register and login in to the application.
- The user can update his profile.
- Users can check the transaction history as well.
- Users can withdraw money.

1.4. Technology used

- **Front-End:** JSP, Html, CSS, JS.
- **Server-side:** Servlet.
- **Back-end:** MYSQL.
- **Server:** Tomcat 8.5.

1.5. MODULE DESCRIPTION

1.5.1. Create Account

Selecting this creates a new account for the user by accepting input such as name, address and required personal information.

1.5.2. Open account

Opens a new account for the user by accepting input such as account number, name and minimum balance Search Enables to search for the details of the given account number. Displays only one account detail at a time.

1.5.3. Deposit

Provides options to deposit amount from the given account number.

1.5.4. Withdraw

Provides options to withdraw amount from the given account number.

1.5.5. Member List

Maintains the records of the registered users with personal informations.

1.5.6. Mini Statement

Provides options to search the account no and display the required information of the user.

1.6. Scope of Facility

The extent of the Bank Management System stretches out to every one of the clients who wish for simple banking facilities. This programming item will be utilized for putting away client's record data and the exchanges made by them.

- **Creating New Accounts**-The application can be utilized to make two distinct sorts of records by the clients, which are Savings Account and Current Account. It helps save the hustle for the client to visit the bank truly and make/utilize these records.
- **Depositing Money**-As the world is moving towards the restricted utilization of paper cash, storing or moving cash from one bank to the next will become as simple as clicking a couple of buttons utilizing this application.
- **Withdrawing Money**-Requests can be sent through the application to request cash move also.
- **Account Holder List**-This is an element for the administrator. The administrator can see the rundown of all the record holders.
- **Balance Enquiry**-The client can check their equilibrium by means of this application.
- **Changing Passwords/PIN**-The client can undoubtedly change the passwords and pin numbers utilizing the application.
- **Closing**- The client can close their records also utilizing this application.

1.6.1. Facility:

Productive bank office the executives programming can help banking and monetary associations in streamlining their offices and actual areas so they can all the more likely line up with their business objectives. Cloud-based offices the board programming can help banks in guaranteeing worked on functional proficiency without expanding the upkeep cost.

Bank office the executives programming smooths out different everyday business tasks, upgrading the general effectiveness and usefulness of workers.

Some of the major areas where bank facility management software is helpful:

- **Property Management:** Progressed property the board programming engages banks to deliberately deal with their leased and possessed offices with guaranteeing limited business interferences. The mechanized email notices illuminate the clients about the moving toward date of rent termination with the goal that they can restore the rent concurrences on schedule. It likewise stores all property and rent related records like rental receipts securely.
- **Space Optimization:** Space the executives turn into a simple assignment for banks subsequent to carrying out space the board programming. Coordinating space, the board programming for banking permits banks to productively use unused spaces in the office, increment efficiency, smooth out space assignment and de-allotment, and decrease functional expenses fundamentally. Additionally, progressed space the executives programming for banks can be handily coordinated with ERP, HR, or CRM programming to guarantee straightforwardness in space accessibility.
- **Physical Asset Management:** With actual resource the executives programming, banks and monetary associations can effectively deal with the total lifecycle of their proper resources present inside the offices and office areas.
- **Help Desk Management:** The component of the assistance work area the executives programming enables banks and monetary associations to follow issues, grumblings, and administration demands by clients inside their office areas. With computerized processes, bank workers and staff can zero in on adding new clients, holding their records, and offer monetary items to them. An all-around oversight bank office upholds representatives and any remaining business angles to reinforce client connections.

CHAPTER: 2 THEORY

The developed system is an innovation in the area of private banking. In the existing system the number of staff required for completing the work is more, while the new system requires lesser staffs generally.

The data entry process requires the data on the paper, which is then feed into the application by the operator while doing so; the data entry operator has to look into the paper again & again and thus the chances of in accuracies in the typed contents increases. Also, the process includes higher transportation cost, increased handling cost, more time delays, low accuracy, more usage of resources like registers, books, papers, etc.

The Online Banking suite provides a global accounting foundation that provides the all-private banks with electronic banking facilities. It allows client of private banks to carry out their day-to-day banking transactions.

Benefits of the system

- Quick, authenticated access to accounts via the desktop.
- Easily scalable to grow with changing system requirement.
- Enterprise-wide access to information.

I have used various python modules to make this project. It has authentication as well so that errors could be prevented. I have created 5 pages i.e., create account, deposit amount, withdraw amount, mini-statement and member list.

Servlets are the Java programs that run on the Java-enabled web server or application server. They are used to handle the request obtained from the webserver, process the request, produce the response, then send a response back to the webserver.

AJAX = Asynchronous JavaScript and XML.

AJAX is not a programming language.

AJAX allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page.

CHAPTER: 3 METHODOLOGY ADOPTED

3.1. Data base: A data set is a coordinated assortment of organized data, or information, regularly put away electronically in a PC framework. Together, the information and the DBMS, alongside the applications that are related with them, are alluded to as an information base framework, frequently abbreviated to simply data set.

Here, I use database namely Bank with tables namely account, login and transaction.

3.2. Apache Tomcat: Apache Tomcat is an open-source java-based web server. It is also a web container for deploying Java based web applications - Java servlets and JSPs. It is one of the mostly used web servers for hosting java web applications. Whenever a request comes it will give response.

3.3. Servlet: A servlet acts as an intermediary between the client and the server. As servlet modules run on the server, they can receive and respond to requests made by the client.

3.4. JSP: It stands for Java Server Pages. It is a server-side technology. It is used for creating web application. It is used to create dynamic web content. In this JSP tags are used to insert JAVA code into HTML pages.

3.5. Java Script: JavaScript is a scripting or programming language that allows you to implement complex features on web pages.

This language is used for client-side validation.

- a. Input has some maximum and minimum length
- b. Login must be having alphabets only
- c. Both inputs must have some values
- d. To confirm before submit

3.6. HTML: HTML stands for Hyper Text Markup Language for creating Web pages and which describes the structure of a Web page. HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

3.7. CSS: CSS stands for Cascading Style Sheets which allows you to create great-looking web pages also it provides powerful control over the presentation of an HTML document. Using CSS, you can control the colour of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colours are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

3.8. XML: XML means Extensible Markup Language. XML is used for designing the web pages in an application. It is used for mapping client side and server side.

3.9. Client side: Client-side refers to operations that are performed by the client in a client–server relationship in a computer network. Typically, a client is a computer application, such as a web browser, that runs on a user 's local computer, smartphone, or another device, and connects to a server as necessary.

3.10. Server Side: everything that happens on the server, instead of on the client side and this included rendering dynamic webpages, interacting with databases, identity authentication, and push notifications.

3.11. Web-INF: WEB-INF is a folder (directory) that contains a file called web. xml. The web. The tag is used to inform the server about the servlets you are using by specifying the servlet name and servlet class name which are stored in the classes folder within the WEB-INF folder. Which provides more security to the folder?

3.12. Libraries of Java:

1. javax.servlet.http
2. java.sql
3. javax.servlet
4. java.io

CHAPTER: 4 RESULT AND DISCUSSION

Whatever we have done till now is shown through pictures mentioned below. It will give a clear idea of what has been done. There is one login page and after those 5 more pages are there which are used for different purpose.

CHAPTER: 5 CONCLUSION

After analysing real-time or real-world, I came to know that it is very difficult for the person to maintain records manually same in the case with the person who is maintaining Books Like Ledgers etc., so in order to provide the bank with such a system that helps them easy in maintaining the records of the customers based on web-application despite of standalone program, we are going with this project. The operations performed by this project are maintenance of the information of the Customers that are dealing with the bank which includes login into the page in which there is a need to write correct user name and password, creating account of a new user in which we need to write full name, gender, email etc and all personal details which is required, withdrawal amount in which we need to write the account number and then the amount which you need to withdrawal, deposit amount in which we need to write account number and then the amount which you need to deposit and about mini statement.

REFERENCES

- <http://tomcat.apache.org/>
- https://www.tutorialspoint.com/servlets/servlets_overview.htm
- <https://www.ibm.com/docs/en/zos-basic-skills?topic=zos-what-is-database-management-system>
- <https://www.techopedia.com/definition/439/client-side>
- <https://www.w3schools.com/Css/>
- https://www.tutorialspoint.com/jsp/jsp_overview.htm
- <https://www.w3schools.com/xml/>
- <https://www.w3schools.com/html/>
- <https://www.dpscomputing.com/blog/2019/06/29/what-is-web-inf/>
- <https://www.javascript.com/>
- <https://arsalsoftware.com/>

APPENDIX

Raw Data Where to find

Introduction pp. 1

Theory pp. 6

Methodology used pp. 7

Result and Discussion pp. 9