**introduction**

This project is aimed at developing an Online Banking for customer. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided.

. The database connectivity was planned using the latest “ Database connection” technology provided by Oracle. The authentication and authorization was crosschecked at all the relevant stages.

**1.1 Overview**

Internet Banking is all about knowing our customer need and provide them with the right service at the right time through right channel 24\*7 day a week.

Being “electronic”, it not only provides its customers with faster and better facilities, it even reduces the manual overhead of accounts maintenance.

**1.2 ABOUT THE PROJECT**

Project is all about onine bank management system it includes deposition, transactions etc

**1.5 Purpose:**

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.

**Scope:**

The Online Banking project is widely applicable with private banks. It can even be used in industries for their personal transactions (working).

**Functional components of the project:**

Following are the functional needs of the software:-

1. Customer must have a valid user ID and password to login to the system.

2. After the valid user logs in, the system shows the present balance in that particular account number.

3. Customer can perform transactions like deposit and withdrawal from his account.

4. Proper help to be provided as and when requested by the customer.

**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.

Improved information security, restricting unauthorized access.

Minimize Storage Space

In manual system, much storage space for data files is required so to overcome this problem, on automated well managed

database is developed for saving storage space. This s/w saves space and stores information efficiently. It ends the burden of having large manual filing storage system.

**Banking System can be used extensively**

Withdrawal of amount by the client.

Deposition of amount by the client.

Faster balance enquiry.

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**Software Requirement & Specification**

**Software Required:**

The project is implemented in ADV JAVA, hence the software’s required in the creation and execution of the project are J2EE ,NETBEANS or Eclipse .

**Technologies and Requriments**

**IDE:**

ECLIPSE NEON 3

**Front End:**

JSP, JDBC, Javascript, AJAX

**Programming Language:**

JAVA

**Back End:**

My SQL Database

**5.3 E – R DIAGRAMS:**

* + **The relation upon the system is structure through a conceptual ER-Diagram, which not only specifics the existential entities but also the standard relations through which the system exists and the cardinalities that are necessary for the system state to continue.**
  + **The entity Relationship Diagram (ERD) depicts the relationship between the data objects. The ERD is the notation that is used to conduct the date modeling activity the attributes of each data object noted is the ERD can be described resign a data object descriptions.**
  + **The set of primary components that are identified by the ERD are**

◆ **Data object** ◆ **Relationships**

◆ **Attributes** ◆ **Various types of indicators.**

**The primary purpose of the ERD is to represent data objects and their relationships.**

**5.4 DATA FLOW DIAGRAMS:**

A data flow diagram is graphical tool used to describe and analyze movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processed, may be described logically and independently of physical components associated with the system. These are known as the logical data flow diagrams. The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations. A full description of a system actually consists of a set of data flow diagrams. Using two familiar notations Yourdon, Gane and Sarson notation develops the data flow diagrams. Each component in a DFD is labeled with a descriptive name. Process is further identified with a number that will be used for identification purpose. The development of DFD’S is done in several levels. Each process in lower level diagrams can be broken down into a more detailed DFD in the next level. The lop-level diagram is often called context diagram. It consists a single process bit, which plays vital role in studying the current system. The process in the context level diagram is exploded into other

**DFD SYMBOLS:**

In the DFD, there are four symbols

1. A square defines a source(originator) or destination of system data
2. An arrow identifies data flow. It is the pipeline through which the information flows
3. A circle or a bubble represents a process that transforms incoming data flow into outgoing data flows.
4. An open rectangle is a data store, data at rest or a temporary repository of data

Process that transforms data flow.

Source or Destination of data

Data flow

Data Store

**DATA FLOW**

1. A Data Flow has only one direction of flow between symbols. It may flow in both directions between a process and a data store to show a read before an update. The later is usually indicated however by two separate arrows since these happen at different type.
2. A join in DFD means that exactly the same data comes from any of two or more different processes data store or sink to a common location.
3. A data flow cannot go directly back to the same process it leads. There must be atleast one other process that handles the data flow produce some other data flow returns the original data into the beginning process.
4. A Data flow to a data store means update (delete or change).
5. A data Flow from a data store means retrieve or use.

A data flow has a noun phrase label more than one data flow noun phrase can appear on a single arrow as long as all of the flows on the same arrow move together as one package.

(a) **:**  User Details

(b) **:** Response

(c) **:** Personal details

(d) **:** Reply

(e) **:** Account Transaction entry

(f) **:** Transaction Details

(g) **:** Loan Application

(h) **:** Response

(i) **:**  Feedback

(j) **:**  Reply

(k) **:** Create ,Update ,Reply

(l) **:**  User data

(m)**:** Login Info

(n) **:** Invalid login

(f)

Reply

User

Access

Access

Valid user



Valid user

**Online Banking System**

**Database**

Administrator

(e)

(g)

(h)

(i)

(j)

Access

Registration Info

Valid Administrator

(k)

(l)

Login\_ Info

(m)

(n)

User Details

Reply

(a)

(b)

(c)

(d)

Fig. Level 1 DFD

Registration Info

Verify data

Valid User

Register Info

Update

Login\_Info

Fig . Level 2 DFD process-1

User Data

User Data

CUSTOMER

Personal Details

Account Request

Response

Verified\_ Appl

update

Retrieve

Fig . Level 2 DFD process-2

Valid user

Request for transfer

Valid user

Balance Enquiry

Deposit cash

Other Account

Other Bank

Money\_Transfer

Account\_tab

Branch

Fig . Level 2 DFD process-3

Fig . Level 2 DFD process-4

PROCESS 5

Response

Valid user

Loan\_ application

Sanctioned\_Loan

Response

Update

Response

Loan details

Valid user

Valid user

Valid user

Response

Reply

Feedbacks\_ Reply

Reply

Feed Back

FeedBack\_tab

User Feedback

Feedback

Reply

Fig . Level 2 DFD process-5

Verified

data

Response

User Details

Update Table

Retrieve Data

Login\_Info

New Password

Old Password

New Password

Customer\_ Info

Loan\_ Application

Sanctioned\_ Loan

Update

Customer Feed Back

Retrieve Feedback

Response

Feed Back

Money Transfer \_tab

Account\_ tab

Update Data

Update

Data

Retrieve Data

Confirm Password

User Feedback

Reply

Account\_Requests Tab

Application data

Account

Details

Account details

update

Fig . Level 2 DFD process-6

verify

update

Valid user

Money\_ Transfer

Account\_tab

Account\_tab

Status Info

Fig . Level 3 DFD

**5.5 DATABASE TABLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Data type** | **Nullable** | **Primary key** |
| ACCOUNTINFO | Number | No | Yes |
| USERNAME | Varchar2 | Yes | No |
| PASSWORD | Varchar2 | Yes | No |
| AMOUNT | Varchar2 | Yes | No |
| ADDRESS | Varchar2 | Yes | No |
| PHONE | Varchar2 | Yes | No |