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Internet Banking System Using Java

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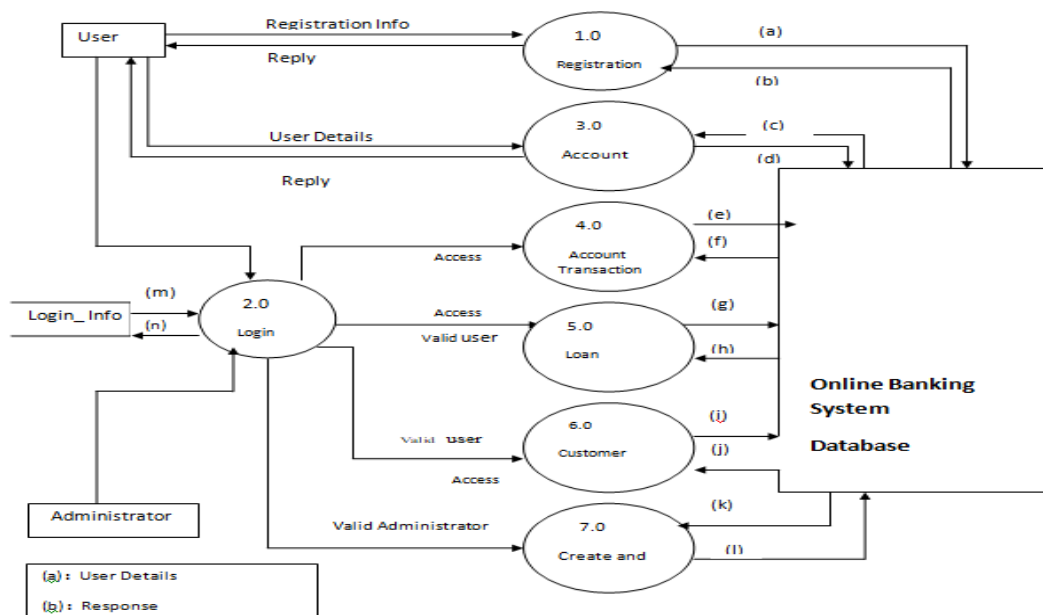
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ABSTRACT: This project is aimed at developing an Online Banking for customer. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided. The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of Oracle 10g and all the user interfaces have been designed using the JAVA. The database connectivity is planned using the “Database” methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

I. INTRODUCTION

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. Life at DPSRKP centers on a shared commitment to academic excellence, intellectual growth, art, athletics, high standards of ethical awareness, sportsmanship, and community service. The BANK's traditions and accessibility to a broad curriculum add depth to each student’s life.

II. ARCHITECTURE:





III. SYSTEM ANALYSIS

The developed system is an innovation in the area of private banking. In the existing system the no. 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.

IV. DATA FLOW

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. 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. a data flow cannot go directly back to the same process it leads. there must be at least one other process that handles the data flow produce some other data flow returns the original data into the beginning process. a data flow to a data store means update (delete or change). a data flow from a data store means retrieve or use

- The protection of computer based resources that includes hardware, software, data, procedures and people against unauthorized use or natural Disaster is known as System Security. System Security can be divided into four related issues SECURITY, INTEGRITY, PRAVACY, CONFIDENTIALITY.
- System security refers to various validations on data in form of checks and controls to avoid the system from failing. It is always important to ensure that only valid data is entered and only valid operations are performed on the system. The system employees two types of checks and controls
- Various client side validations are used to ensure on the client side that only valid data is entered. Client side validation saves server time and load to handle invalid data. Some checks imposed are
- VBScript in used to ensure those required fields are filled with suitable data only. Maximum lengths of the fields of the forms are appropriately defined.
- Forms cannot be submitted without filling up the mandatory data so that manual mistakes of submitting empty fields that are mandatory can be sorted out at the client side to save the server time and load.
- Tab-indexes are set according to the need and taking into account the ease of user while working with the system.
- Some checks cannot be applied at client side. Server side checks are necessary to save the system from failing and intimating the user that some invalid operation has been performed or the performed operation is restricted. Some of the server side checks imposed
- Server side constraint has been imposed to check for the validity of primary key and foreign key. A primary key value cannot be duplicated. Any attempt to duplicate the primary value results into a message intimating the user about those values through the forms using foreign key can be updated only of the existing foreign key values.
- User is intimating through appropriate messages about the successful operations

V. TESTING

SOFTWARE TESTING TYPES

SYSTEM TESTING, UNIT TESTING, INTEGRATION TESTING, FUNCTIONAL TEST, SYSTEM TEST, WHITE BOX TESTING, BLACK BOX TESTING ,GUI TESTING

Test Objectives:

All field entries must work properly.
Pages must be activated from the identified link.
The entry screen, messages and responses must not be delayed.



To Be Tested:

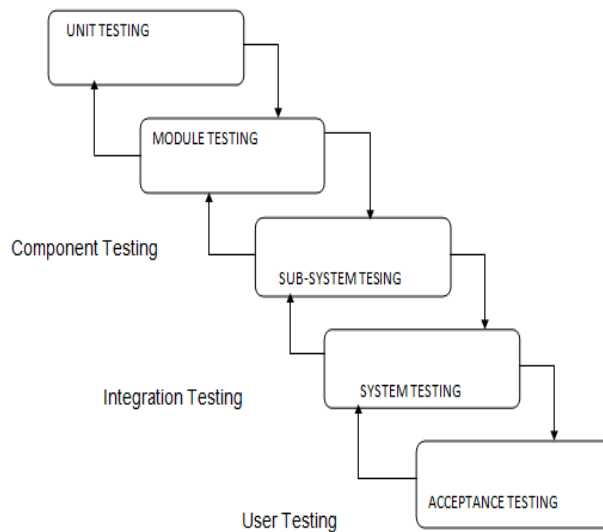
- Verify that the entries are of the correct format
- No duplicate entries should be allowed
- All links should take the user to the correct page.

VI. INTEGRATION TESTING

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects. The task of the integration test is to check that components or software applications, e.g. components in a software system or – one step up – software applications at the company level – interact without error.

- **Test Results:** All the test cases mentioned above passed successfully. No defects encountered.
- **Test Results:** All the test cases mentioned above passed successfully. No defects encountered.
- **Test Cases:** Set of inputs, execution conditions and expected results carried out for some objectives:

VII. TEST CASE:



VIII. APPLICATIONS

This system will help in increasing the robustness and speed of banking secure. Services such as payment of bills, fund transfers, viewing account statements, etc. can be conducted with great ease through internet banking.

IX. FUTURE SCOPE

- 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: Customer must have a valid user ID and password to login to the system. After the valid user logs in, the system shows the present balance in that particular account number. Customer can



perform transactions like deposit and withdrawal from his account. Proper help to be provided as and when requested by the customer.

•More functionality can be added to “enhance the project”: By adding new modules of different accounts like saving A/C, current A/C etc. to facilitate new customers/users. By the use of electronic media, “Digital Signature” on the card can be provided with the customer to make it secure and efficient.

X. CONCLUSION

This project developed, incorporated all the activities involved in the browsing centre.

It provides all necessary information to the management as well as the customer with the use of this system; the user can simply sit in front of the system and monitor all the activities without any physical movement of the file. Management can service the customers request best in time.

The system provides quickly and valuable information. These modules have been integrated for effective use of the management for future forecasting and for the current need.

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