



INSTITUTE OF ENGINEERING & TECHNOLOGY

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Name : Harshit Suthar | Class: Btech-CSE (3 sem) | Subject: SE Lab

LIST OF EXPERIMENTS

EXP NO	EXPERIMENT NAME
1	Course management system (CMS)
2	Easy Leave
3	E-Bidding
4	Electronic Cash counter



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EXPERIMENT 1

Course management system (CMS)

A course management system (CMS) is a collection of software tools providing an online environment for course interactions. A CMS typically includes a variety of online tools and environments, such as:

1. An area for faculty posting of class materials such as course syllabus and handouts
2. An area for student posting of papers and other assignments
3. A grade book where faculty can record grades and each student can view his or her grades
4. An integrated email tool allowing participants to send announcement email messages to the entire class or to a subset of the entire class
5. A chat tool allowing synchronous communication among class participants
6. A threaded discussion board allowing asynchronous communication among participants

In addition, a CMS is typically integrated with other databases in the university so that students enrolled in a particular course are automatically registered in the CMS as participants in that course. The Course Management System (CMS) is a web application for department personnel, Academic Senate, and Registrar staff to view, enter, and manage course information formerly submitted via paper. Departments can use CMS to create new course proposals, submit changes for existing courses, and track the progress of proposals as they move through the stages of online approval.

1.1: PURPOSE OF THE SYSTEM

The Course management system is an Intranet based application that can be accessed throughout the organization or a specified group/Dept. This system can be used to automate the workflow of courses. The Lab experiment will explain the purpose and features of the system, the interfaces of the system will do, the constraints under which it must operate and how the system will react to external stimuli.



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1.2: FUNCTIONAL COMPONENTS OF THE SYSTEM

There are registered people in the system. Some are approvers. An approver can also be a requestor. In a college, it could be Lecturer/Professor/Head of the Department/Dean/Principal etc.

1.3: PROBLEMS IN THE EXISTING SYSTEM:

- The current system is a manual one where in the organization maintains all the information in the form of records. There by collecting necessary information which require a manual search in the record(s).
- Transfer of information between different sections of the enterprise is in the form of documents.
- Due to mismanagement the work is delayed to later date than the due date.

1.4: SOLUTION OF THESE PROBLEMS

- The information of the entire organization will be maintained at a centralized data base any changes made known to the higher or lower level members.
- Provide Interactive interface through which a user can interact with different areas of application easily
- Deploy the application on a single system and make is available on all the systems with in the network, there by reducing the maintenance cost of software.

1.5: SCOPE OF THE PROJECT

CMS will perform a lots of functions which includes **the uploading of the results of quizzes, assignments and sessionals** by the instructor, **instructor's comments about the students**, **viewing of various results and attendance** by students and parents, **students' and parents' feedback for the teachers**, etc. Moreover, the CMS will not do any calculation for computing the total result of the sessionals including the results of assignments and quizzes. The system will not maintain the attendance. It will just show the attendance of the students. The system will also not offer the memberships to the external internet users. And it will also not the official resource, e.g. results, etc.

Following is a list of functionalities of the system:

- An area for faculty posting of class materials such as course syllabus and handouts
- An area for student posting of papers and other assignments
- A grade book where faculty can record grades and each student can view his or her grades
- An integrated email tool allowing participants to send announcement email messages to the entire class or to a subset of the entire class



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- **A chat tool allowing synchronous communication among class participants**
- A threaded discussion board allowing asynchronous communication among participants

1.6: STUDY OF THE SYSTEM

In the flexibility of the uses the interface has been developed keeping a graphics concept in mind, associated through a browser interface. The GUI'S at the top level have been categorized as

1. Administrative user interface
2. The operational or generic user interface

The administrative user interface concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection. The interfaces help the administrations with all the transactional states like Data insertion, Data deletion and Data updation along with the extensive data search capabilities.

The operational or generic user interface helps the users upon the system in transactions through the existing data and required services. The operational user interface also helps the ordinary users in managing their own information helps the ordinary users in managing their own information in a customized manner as per the assisted flexibilities.

1.7: Number of Modules

The system after careful analysis has been identified to be presented with the following modules:
The modules involved are:

- Administration
- Student
- Search
- Report
- Authentication

Administrator:-

In this module the Administrator has the privileges to add all the students and register them in the organization and check the information of the student and search is done based on the student and course and report is generated for individual student.

Search:-

This module contain complete search like course search, faculty based on the course they are taking.

Student-

In this module the student has the privileges to use his username and password for login and he can see the .Use the login id for submitting assignments and taking courses and enter the problems while he is undergoing a course.



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Reports:-

This module contains all the information about the reports generated for the students based on the Performance by them for a specific course.

Authentication:-

This module contains all the information about the authenticated user. User without his username and password can't enter into the login if he is only the authenticated user then he can enter to his login.

1.8: Functional Requirements

- Creating Courses

Integration With Registration System: The System Shall periodically Upload The Latest Registrar's Classes List To Determine Courses That Offered In The Current Semester. The System Shall Generate Course For Each Class That Registered And Determine The Current Set Of Students That Enrolled In That Class. The System Shall Allow Course Instructor To Update Course Content.

- Grade Management

Allow Grades To Be Entered Online: The System Shall Allow Instructors To Enter And Modify Grades Online.

Allow Students To Access Their Grades Online: The System Shall Allow Student To Log In Their Account And Check Their Grades At AnyTime. The System Shall Provides Statistical Information Such As Averages, Standard Deviation, Median About Students Grades.

Track And Handle Re-Grade Requests: The System Shall Be Able To Track And Handle Requests For Re- Grades, And All Information About Re-Grades Shall Be Available To The Student, And The Course Instructor.

Homework Submission: Accept Submissions In Multiple Formats: The System Shall Accept Submissions In Multiple Formats, Including .Zip, .Cpp , .Txt, .Doc,Etc.

1.9: INPUT / OUTPUT

The main inputs, outputs and major functions of the system are as follows

Inputs of the system

- Student enters his or her user id and password.
- To upload their assignments before the due date
- To inform the teacher about the lecture whether that particular student have understood



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the lecture or not, etc.

- Teacher will post the statements and the preplanned quizzes in this section
- Result of quizzes, assignments and sessionals will be uploaded by the teacher.
- Teachers can also give comments about any specific stud

Outputs of the system

- Results of the quizzes, assignments and sessionals will be displayed in this section
- The statements of the assignments and the pre-plan quizzes would be seen by the students.
- Feedback by the students and parents would be seen here
- The assignments, uploaded by the students will be another output for the teachers

1.10: SDLC METHODOLOGIES

This Document plays a vital role in the development life cycle (SDLC) as it describes the complete requirement of the system. It is meant for use by the developers and will be the basic during testing phase. Any changes made to the requirements in the future will have to go through formal change approval process.

WATER FALL MODEL is being chosen because all requirements were known beforehand and the objective of our software development is the computerization/automation of an already existing manual working system.

The developer is responsible for:

- Developing the system, which meets the SRS and solving all the requirements of the system?
- Demonstrating the system and installing the system at client's location after the acceptance testing is successful.
- Submitting the required user manual describing the system interfaces to work on it and also the documents of the system.
- Conducting any user training that might be needed for using the system.
- Maintaining the system for a period of one year after installation.



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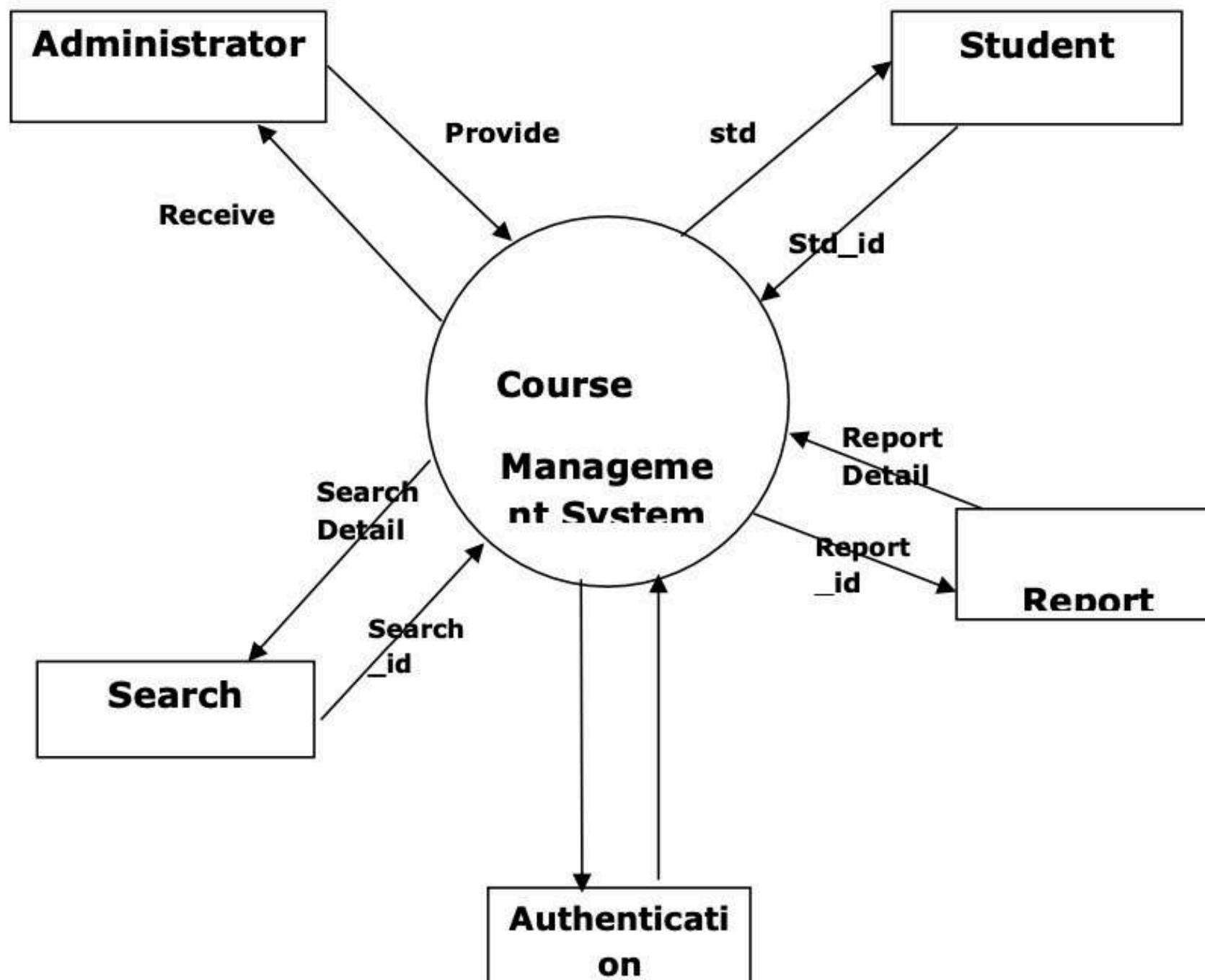


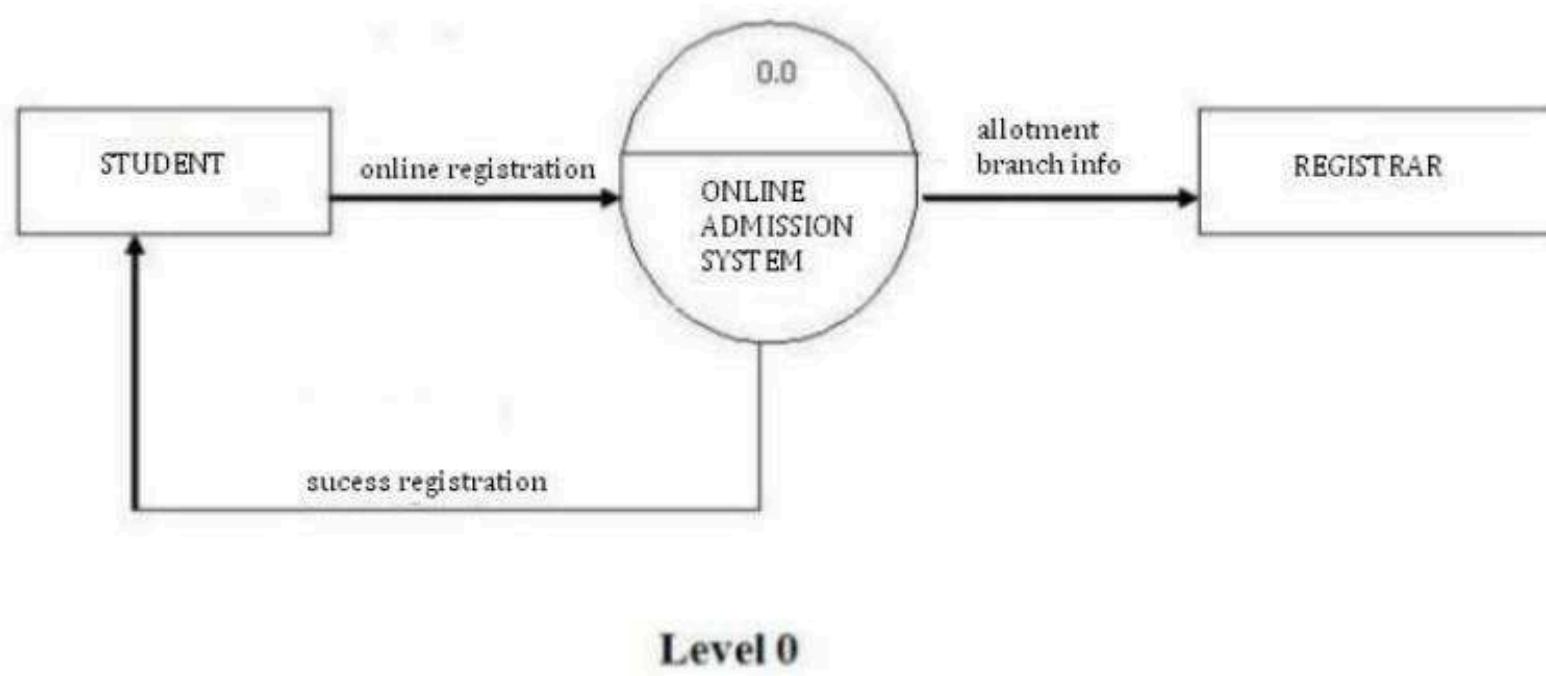
Fig1:CONTEXT DIAGRAM



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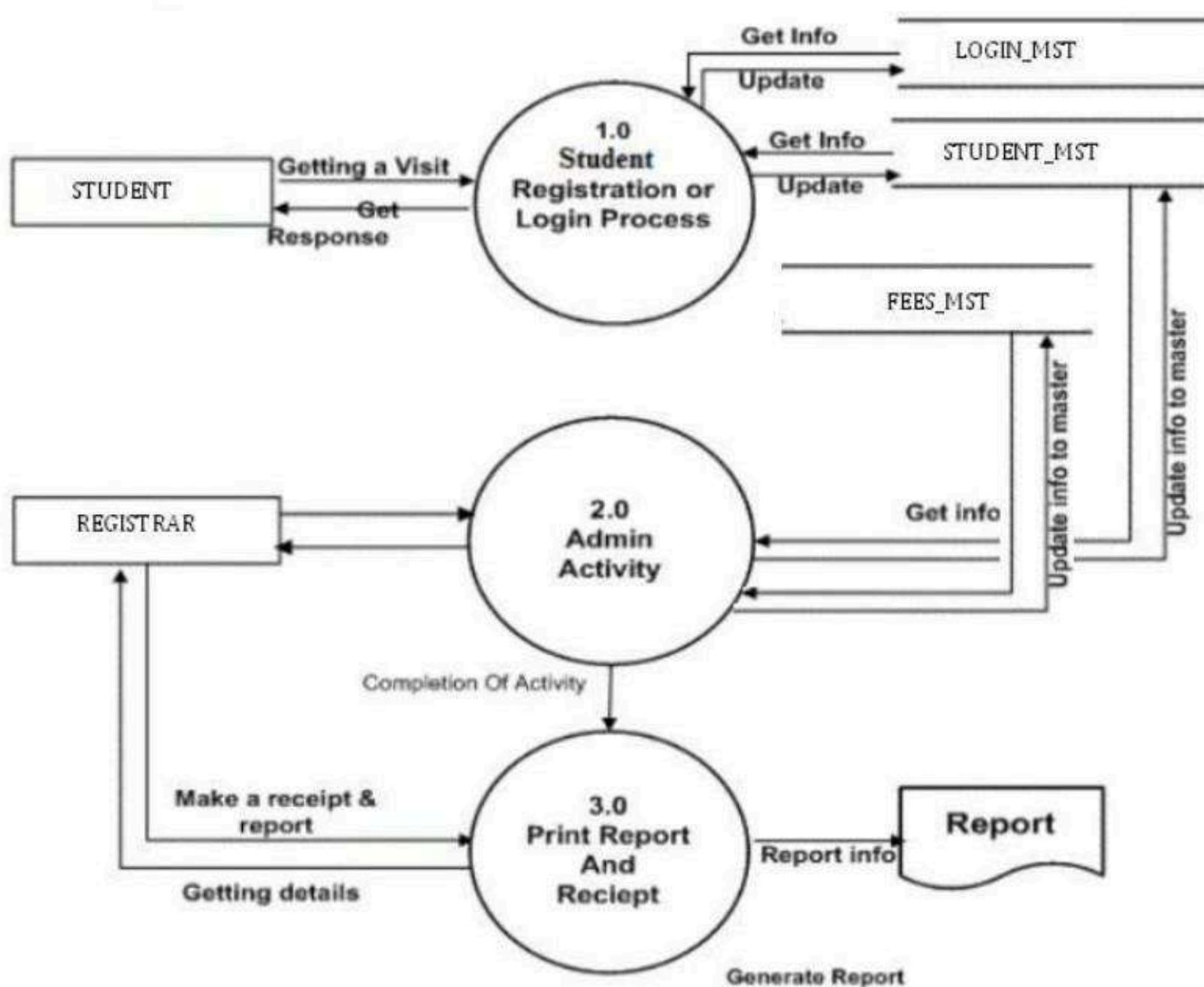
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Level 0

Fig2: LEVEL 0 DFD FOR COURSE REGISTRATION SYSTEM:



Level 1

Fig 3: LEVEL 1 DFD FOR COURSE REGISTRATION SYSTEM:



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1.11: PERFORMANCE REQUIREMENTS:

Performance is measured in terms of the output provided by the application. Requirement specification plays an important part in the analysis of a system. Only when the requirement specifications are properly given, it is possible to design a system, which will fit into required environment. It rests largely in the part of the users of the existing system to give the requirement specifications because they are the people who finally use the system. This is because the requirements have to be known during the initial stages so that the system can be designed according to those requirements. It is very difficult to change the system once it has been designed and on the other hand designing a system, which does not cater to the requirements of the user, is of no use.

The requirement specification for any system can be broadly stated as given below:

- The system should be able to interface with the existing system
- The system should be accurate
- The system should be better than the existing system

The existing system is completely dependent on the user to perform all the duties.

1.12: Software and Hardware Requirements

Software Requirements:

Operating System: Windows XP or later

Database : Microsoft SQL Server-2005

Hardware Requirements:

Processor: Intel Pentium or More

Ram: 512 MB Ram

Hard Disk: PC with 20GB

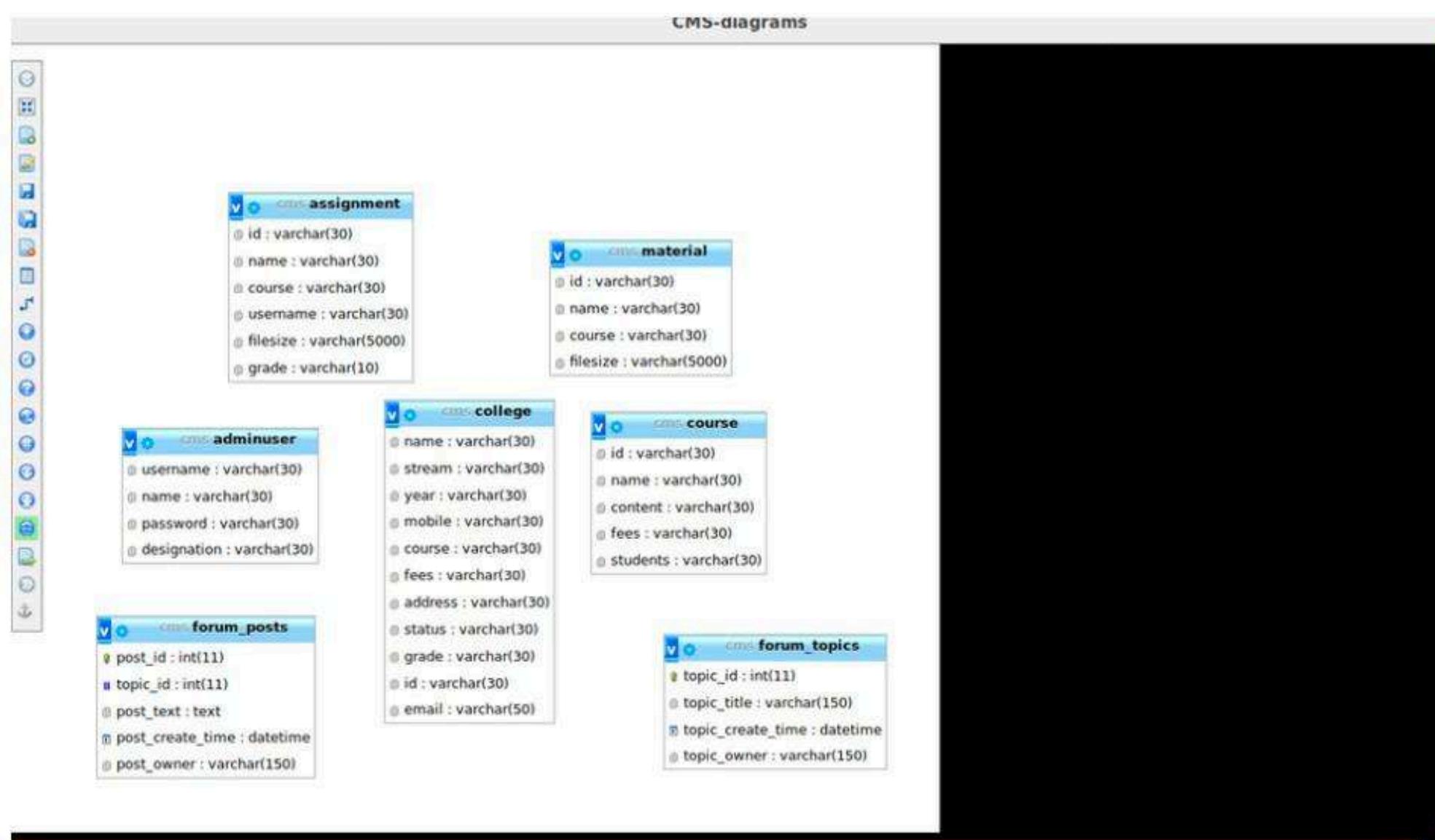


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DataBase Design



COURSE MANAGEMENT SYSTEM

USERNAME: admin

PASSWORD: *****

Login

Admin Login



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Course Management System

File Accounts View

Welcome, Admin Time : 17 Feb, 2018 12:06:18 PM - LOG OUT

Create Course

Update Course

Create Student

Update Student

Delete Student

Student List

Summary Chart

B.P.P.I.M.T

Admin Dash-Board

New Course

Course Id	1
Name	C
Fees	100
Contents	The Basic Language

Register **UPDATE**

Add-Course



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New Student

Name	Mahesh
STREAM	CSE
YEAR	1
Mobile	9885008881
Course	C
Fees	1000
Address	Hyderabad
Status	Paid
Grade	B
STID	100
Email	mahesh@gmail.com

Register



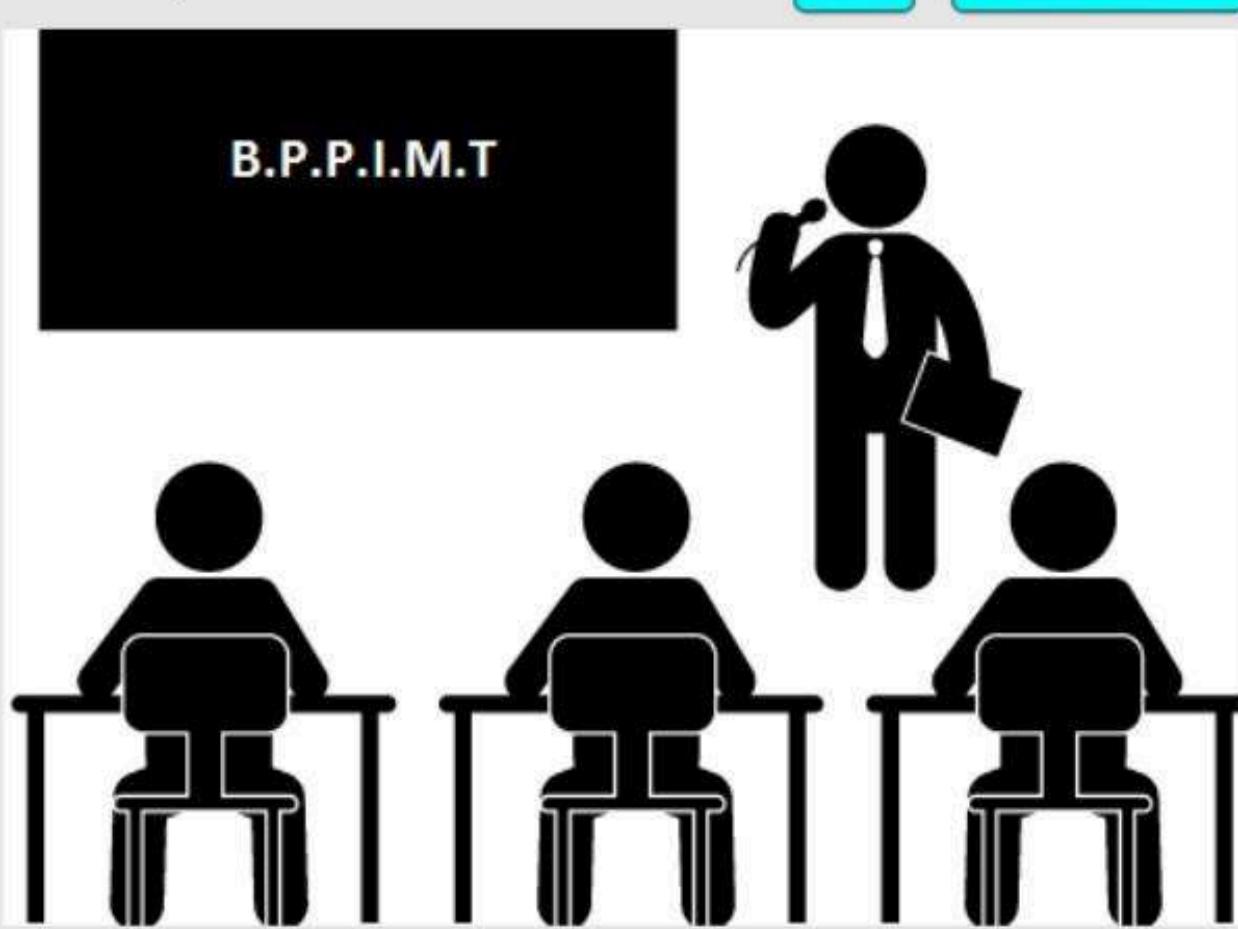
Student Registration

Course Management System

Welcome, Pavan C Time : 17 Feb, 2018 12:10:28 PM LOG OUT

File Accounts View

- [Material Upload](#)
- [Grade Student](#)
- [View Students](#)
- [Send Email](#)
- [Chat](#)
- [Discussions](#)



B.P.P.I.M.T

Faculty Dash-board



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Add a Topic

Your E-Mail Address:
kmaheesh@gmail.com

Topic Title:
Test

Post Text:
Test Description

Add Topic

View Topics

Discussions Posting

Course Management System

Welcome, Pavan C

Time : 17 Feb, 2018 12:12:31 PM

- LOG OUT

Material Upload

Grade Student

View Students

Send Email

Chat

Discussions

Input

Enter the Course name

c

Cancel OK

Faculty Grade Student



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Material Upload

Id: 1

Course: C

Name: Pointers

Choose File

Upload

Faculty Material Upload 1

Open

Look In:

File Name:

Files of Type:

Android **deja-dup**
android-workspace **demo**
current work **Desktop**
current work files **Documents**
data **Downloads**

Open **Cancel**

Faculty Material Upload 2



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Assignment Upload

Id	<input type="text"/>
Course	<input type="text" value="C"/>
Assign. Name	<input type="text"/>
Choose File	<input type="file"/>
Upload	

Student Assignment Upload

Course Enrolment

Choose Course	<input type="text" value="C"/>
Enrol Now	

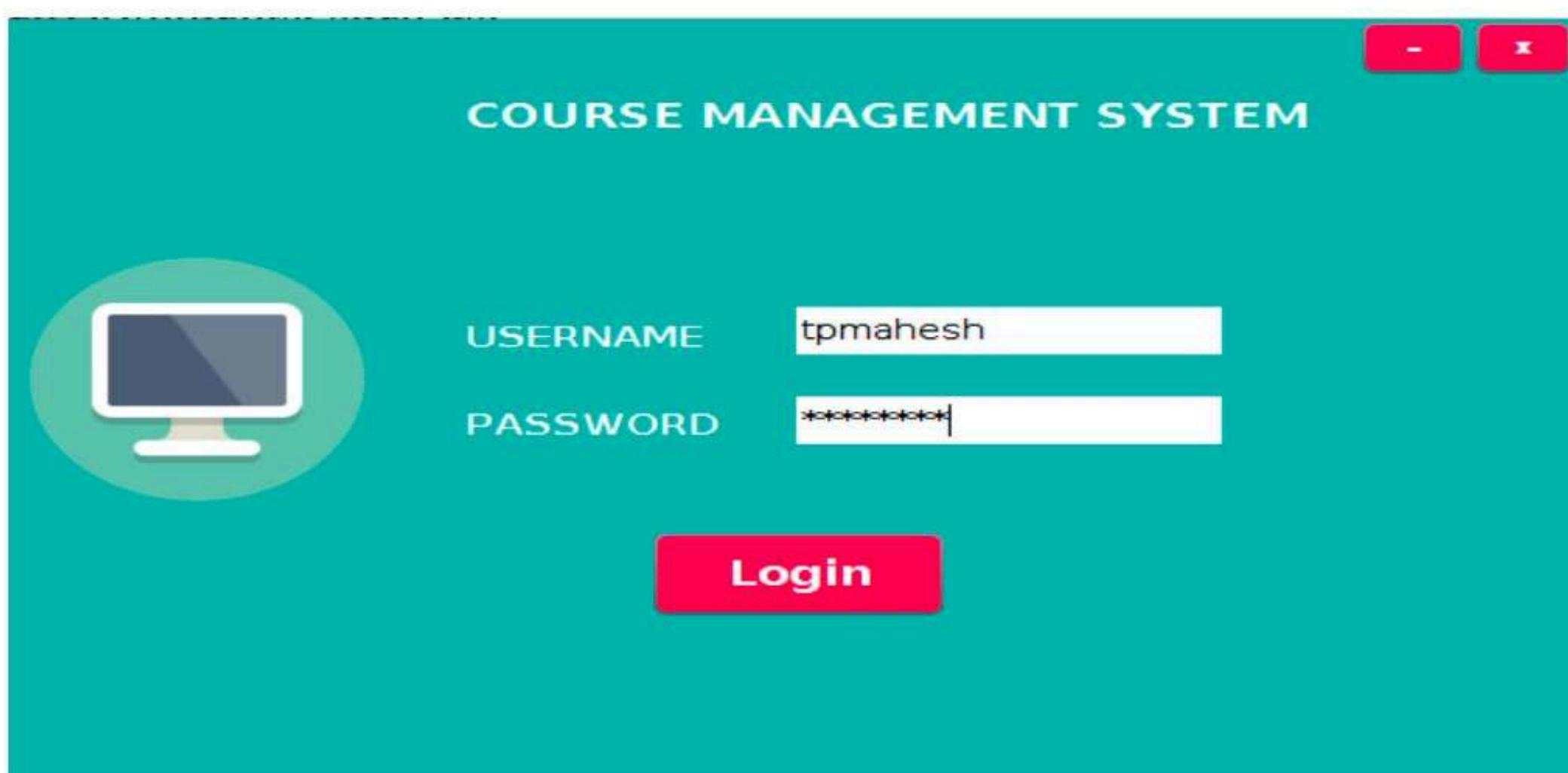
Course Enrollment by student



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Student Login

The screenshot shows a 'Material Downloads' interface with a table and a 'Save' dialog box.

Table Data:

name	course	contents
basic c	C	#!/bin/bashmail -s "Test Subject" kmahesh...
Inheritance	Java	#!/bin/bashmail -s "Test Subject" kmahesh...

Save Dialog Box:

Look In: tele

File Name: basic c.txt

Files of Type: All Files

Buttons: Save, Cancel



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EXPERIMENT 2

EASY LEAVE

This project is aimed at developing a web based Leave Management Tool, which is of importance to either an organization or a college. The Easy Leave is an Intranet based application that can be accessed throughout the organization or a specified group/Dept. This system can be used to automate the workflow of leave applications and their approvals. The periodic crediting of leave is also automated. There are features like notifications, cancellation of leave, automatic approval of leave, report generators etc in this Tool.

Functional components of the project:

There are registered people in the system. Some are approvers. An approver can also be a requestor. In an organization, the hierarchy could be Engineers/Managers/Business Managers /Managing Director etc. In a college, it could be Lecturer/Professor/Head of the Department/Dean /Principal etc.

Following is a list of functionalities of the system: A person should be able to

- login to the system through the first page of the application
- change the password after logging into the system
- see his/her eligibility details (like how many days of leave he/she is eligible for etc)
- query the leave balance
- see his/her leave history since the time he/she joined the company/college
- apply for leave, specifying the from and to dates, reason for taking leave, address for communication while on leave and his/her superior's email id
- see his/her current leave applications and the leave applications that are submitted to him/her for approval or cancellation
- approve/reject the leave applications that are submitted to him/her
- withdraw his/her leave application (which has not been approved yet)
- Cancel his/her leave (which has been already approved). This will need to be approved by his/her Superior.
- get help about the leave system on how to use the different features of the system



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- As soon as a leave application /cancellation request /withdrawal /approval /rejection /password-change is made by the person, an automatic email should be sent to the person and his superior giving details about the action
- The number of days of leave (as per the assumed leave policy) should be automatically credited to everybody and a notification regarding the same be sent to them automatically
- An automatic leave-approval facility for leave applications which are older than 2 weeks should be there. Notification about the automatic leave approval should be sent to the person as well as his superior

2.1: PURPOSE OF THE SYSTEM

The Easy-Leave is an Intranet based application that can be accessed throughout the organization or a specified group/Dept. This system can be used to automate the workflow of leave applications and their approvals. The periodic crediting of leave is also automated. There are features like email notifications, cancellation of leave, automatic approval of leave, report generators etc in this Tool.

2.2: FUNCTIONAL COMPONENTS OF THE SYSTEM

There are registered people in the system. Some are approvers. An approver can also be a requestor. In an organization, the hierarchy could be Engineers/Managers/Business Managers/Managing Director etc. In a college, it could be Lecturer/Professor/Head of the Department/Dean/Principal etc.

2.3: PROBLEMS IN THE EXISTING SYSTEM:

- The current system is a manual one where in the company maintains all the information in the form of records. There by collecting necessary information will require a manual search in the record(s).
- Transfer of information between different sections of the enterprise is in the form of documents or letters. Drafting letters will take time.
- Selection of a person for a task is done by manually approaching the person and confirming the availability of the person.



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SOLUTION OF THESE PROBLEMS

- The information of the entire firm will be maintained at a centralized data base any changes made by the other departs are known to the higher or lower departments instant
- Provide Interactive interface through which a user can interact with different areas of application easily
- Deploy the application on a single system and make it available on all the systems within the network, thereby reducing the maintenance cost of software.

2.4: SCOPE OF THE PROJECT

This project is aimed at developing a web based Leave Management Tool, which is of importance to either an organization or a college. This is an Intranet based application that can be accessed throughout the organization or a specified group/Dept. This system can be used to automate the workflow of leave applications and their approvals. The periodic crediting of leave is also automated. There are features like email notifications, cancellation of leave, automatic approval of leave, report generators etc in this Tool.

Following is a list of functionalities of the system:

1. A person should be able to
 - login to the system through the first page of the application
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 - see his/her eligibility details (like how many days of leave he/she is eligible for etc)
 - query the leave balance
 - see his/her leave history since the time he/she joined the company/college
 - apply for leave, specifying the from and to dates, reason for taking leave, address
 - for communication while on leave and his/her superior's email id
 - see his/her current leave applications and the leave applications that are submitted to him/her for approval or cancellation
 - approve/reject the leave applications that are submitted to him/her
 - withdraw his/her leave application (which has not been approved yet)



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- Cancel his/her leave (which has been already approved). This will need to be approved by his/her Superior
 - get help about the leave system on how to use the different features of the system
2. As soon as a leave application /cancellation request /withdrawal /approval /rejection /password-change is made by the person, an automatic email should be sent to the person and
 3. his superior giving details about the action
 4. The number of days of leave (as per the assumed leave policy) should be automatically credited to everybody and a notification regarding the same be sent to them automatically
 5. An automatic leave-approval facility for leave applications which are older than 2 weeks
 6. should be there. Notification about the automatic leave approval should be sent to the person as well as his superior
 7. A summary report of the leave details of his/her sub-ordinates should be sent to every manager periodically
 8. A calendar giving the public holidays of the organization/college should be available on the system

2.6: STUDY OF THE SYSTEM

In the flexibility of the uses the interface has been developed keeping a graphics concept in mind, associated through a browses interface. The GUI'S at the top level have been categorized as

2. Administrative user interface
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The administrative user interface concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection.

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2.7: Number of Modules

The system after careful analysis has been identified to be presented with the following modules:

The modules involved are:

- Administration
- Employee
- Search
- Report
- Authentication

Administrator:-

In this module the Administrator has the privileges to add all the Employees and register them in the organization and check the information of the Employee and check the status of the leave when they have taken and what type of leave they have taken and search is done based on the employee and report is generated based on employee.

Search:-

This module contain complete search like Leave search, Type of Leave, Employee based on the leave and starting and ending day of leave.

Employee:-

In this module employee has the privileges to use his username and password for login and he can see the request given by the customer and he can pass the process to the Business Manager and maintain the record of the customers.

Reports:-

This module contains all the information about the reports generated by the Employees based on the Performance and by the leave status.

Authentication:-

This module contains all the information about the authenticated user. User without his username and password can't enter into the login if he is only the authenticated user then he can enter to his login



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2.8: INPUT / OUTPUT

The main inputs, outputs and major functions of the system are as follows

Inputs:

- Admin enters his or her user id and password.
- Employee enter his or her user id and password.
- Employee send request for Leave.
- Employee can check for status for Leave.
- Admin can edit the employee details and so on..

Outputs:

- Admin gets his homepage.
- Employee gets his homepage.
- Employee leave request data will be stored in database..
- Displays leave Status.
- Admin get employee details.

2.9: SDLC METHODOLOGIES

This Document plays a vital role in the development life cycle (SDLC) as it describes the complete requirement of the system. It is meant for use by the developers and will be the basic during testing phase. Any changes made to the requirements in the future will have to go through formal change approval process.

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documents of the system.

- Conducting any user training that might be needed for using the system.
- Maintaining the system for a period of one year after installation.

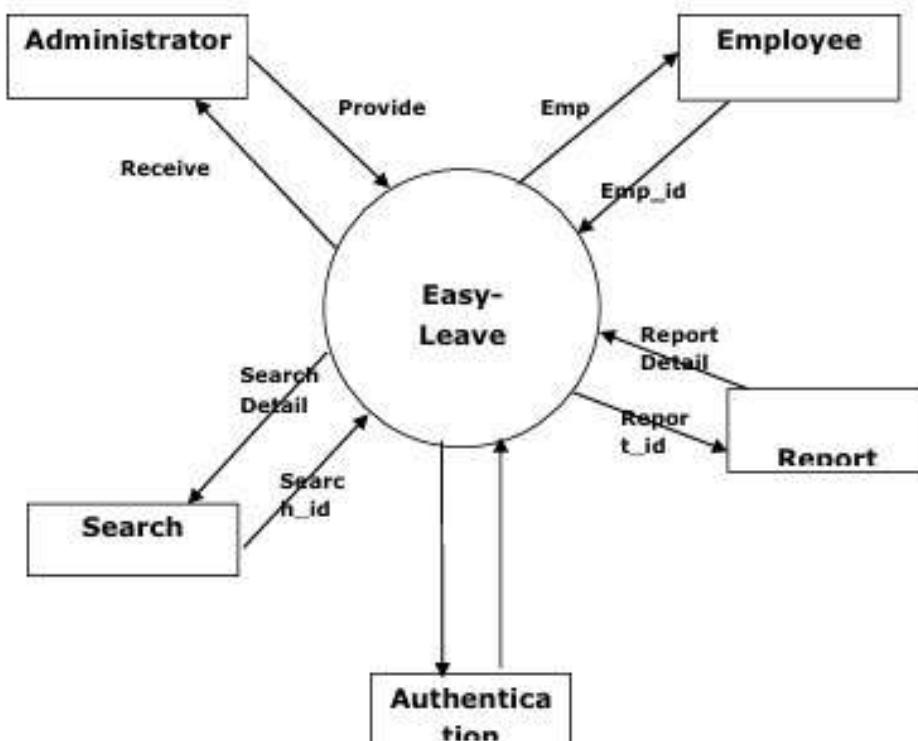


Fig 1: CONTEXT DIAGRAM



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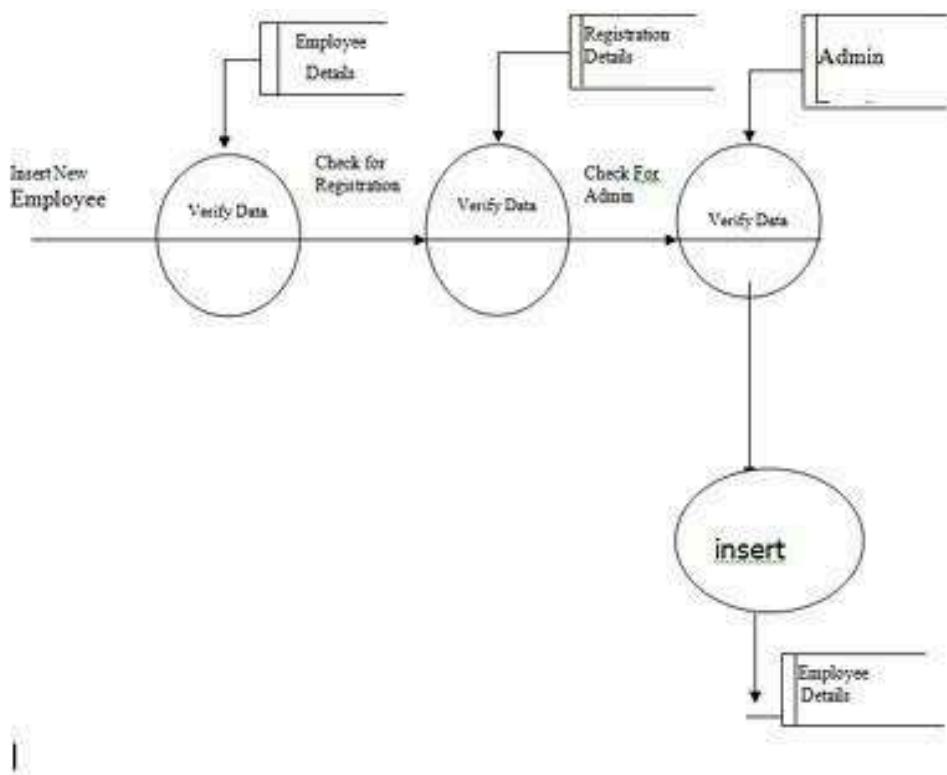


Fig 2: DFD For New Employee Registration

2.10: PERFORMANCE REQUIREMENTS:

Performance is measured in terms of the output provided by the application. Requirement specification plays an important part in the analysis of a system. Only when the requirement specifications are properly given, it is possible to design a system, which will fit into required environment. It rests largely in the part of the users of the existing system to give the requirement specifications because they are the people who finally use the system. This is because the requirements have to be known during the initial stages so that the system can be designed according to those requirements. It is very difficult to change the system once it has been designed and on the other hand designing a system, which does not cater to the requirements of the user, is



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Software and Hardware Requirements:

Title of the Project	Easy Leave
Software Requirements	Operating System: Windows XP or later Database : Microsoft SQL Server-2005 User Interface:
Hardware Requirements	Processor: Intel Pentium or More Ram: 512 MB Ram Hard Disk: PC with 20GB



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among various entities in order to facilitate all concerned users in their various capacities or roles.

Permission to the users would be granted based on the roles specified. Therefore, it provides the technical guarantee of accuracy, reliability and security. The software and hard requirements for the development of this project are not many and are available as free as open source. The work for the project is done with the current equipment and existing software technology. Necessary bandwidth exists for providing a fast feedback to the users irrespective of the number of users using the system.

Operational Feasibility

Proposed projects are beneficial only if they can be turned out into information system. That will meet the organization's operating requirements. Operational feasibility aspects of the project are to be taken as an important part of the project implementation. Some of the important issues raised are to test the operational feasibility of a project includes the following: -

- Is there sufficient support for the management from the users?
- Will the system be used and work properly if it is being developed and implemented?
- Will there be any resistance from the user that will undermine the possible application benefits?

This system is targeted to be in accordance with the above-mentioned issues. Beforehand, the management issues and user requirements have been taken into consideration. So there is no question of resistance from the users that can undermine the possible application benefits.

The well-planned design would ensure the optimal utilization of the computer resources and would help in the improvement of performance status.

Economic Feasibility

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economical feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the costs. The system is economically feasible. It does not require any addition hardware or software. Since the interface for this system is developed using the existing resources and technologies available. There is nominal expenditure and economical feasibility for certain.



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of no use.

The requirement specification for any system can be broadly stated as given below:

- The system should be able to interface with the existing system
- The system should be accurate
- The system should be better than the existing system

The existing system is completely dependent on the user to perform all the duties.

2.11: FEASIBILITY REPORT

Preliminary investigation examine project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- Technical Feasibility
- Operation Feasibility
- Economical Feasibility

Technical Feasibility

The technical issue usually raised during the feasibility stage of the investigation includes the following

- Does the necessary technology exist to do what is suggested?
- Do the proposed equipments have the technical capacity to hold the data required to use the new system?
- Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?
- Can the system be upgraded if developed?
- Are there technical guarantees of accuracy, reliability, ease of access and data security?

Earlier no system existed to cater to the needs of 'Secure Infrastructure Implementation System'.

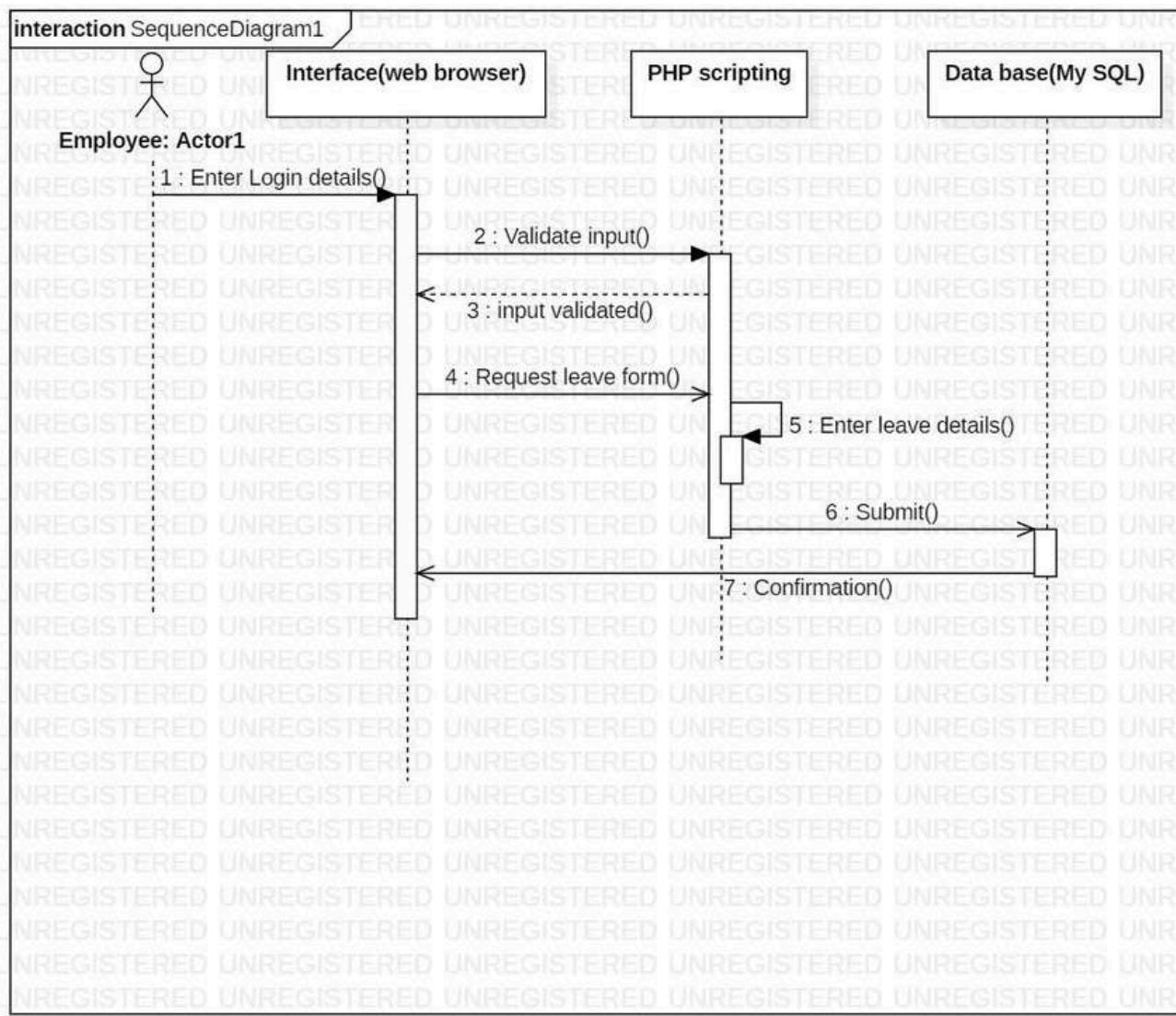
The current system developed is technically feasible. It is a web based user interface. Thus it provides an easy access to the users. The database's purpose is to create, establish and maintain a workflow



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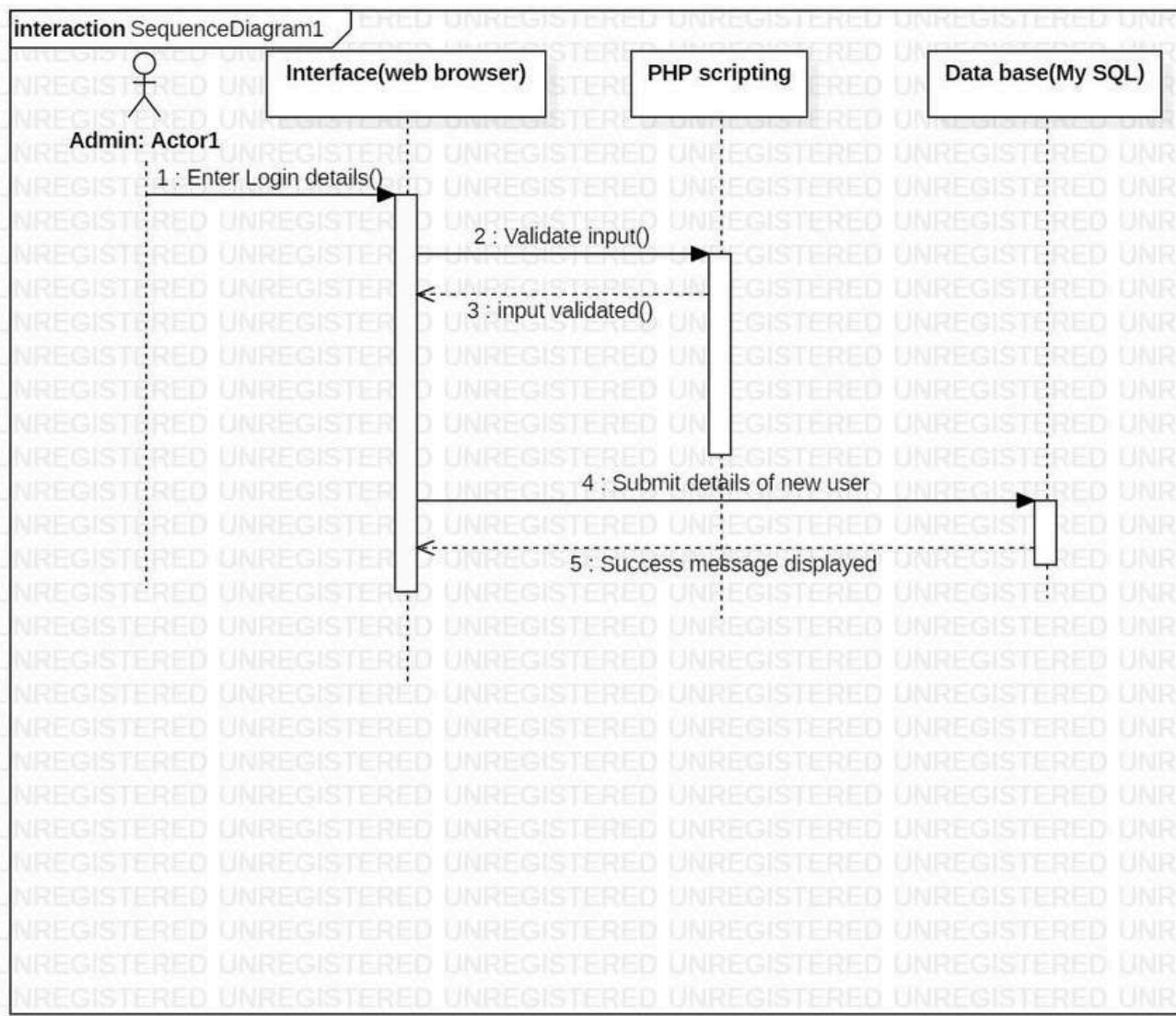




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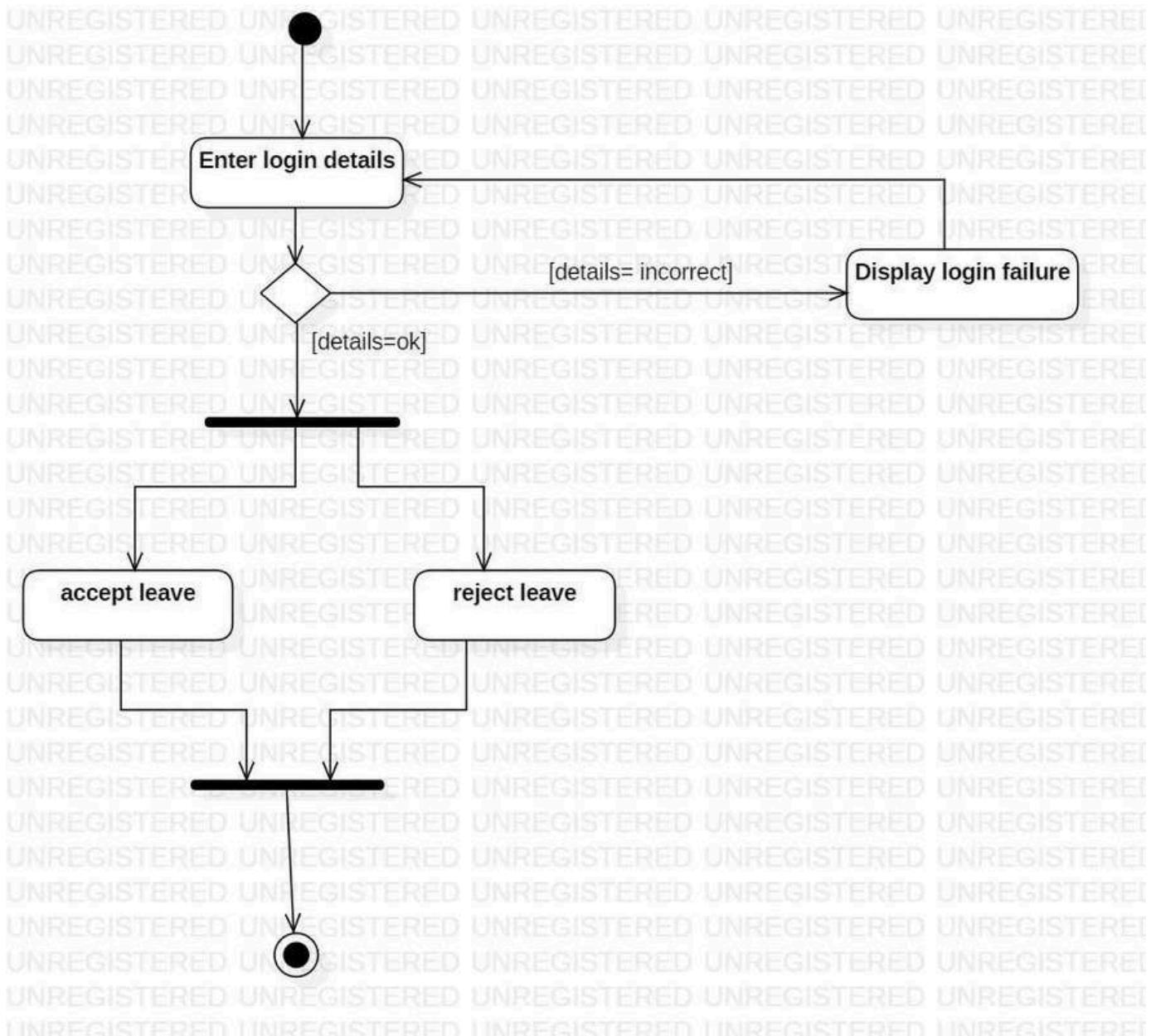




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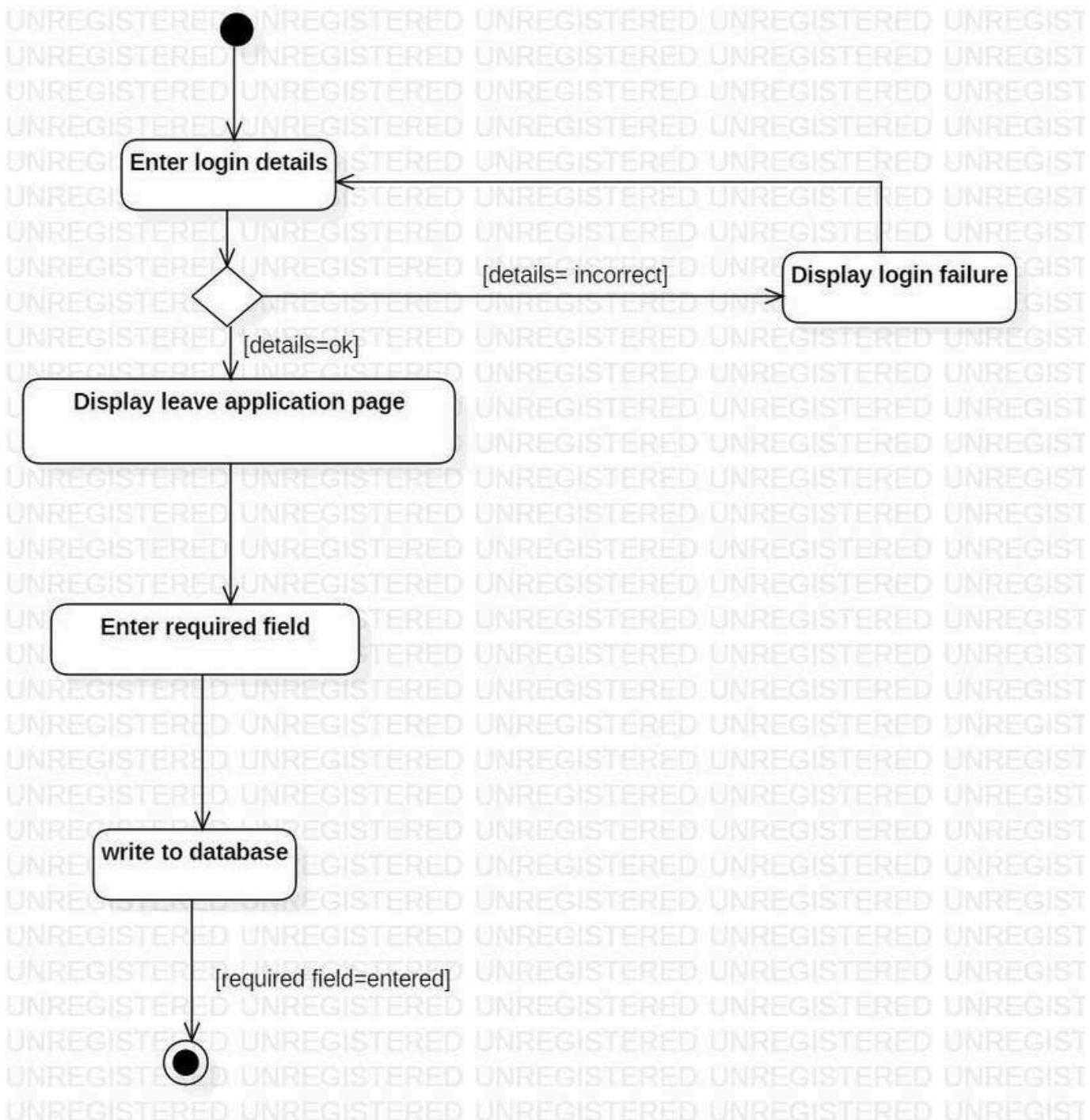




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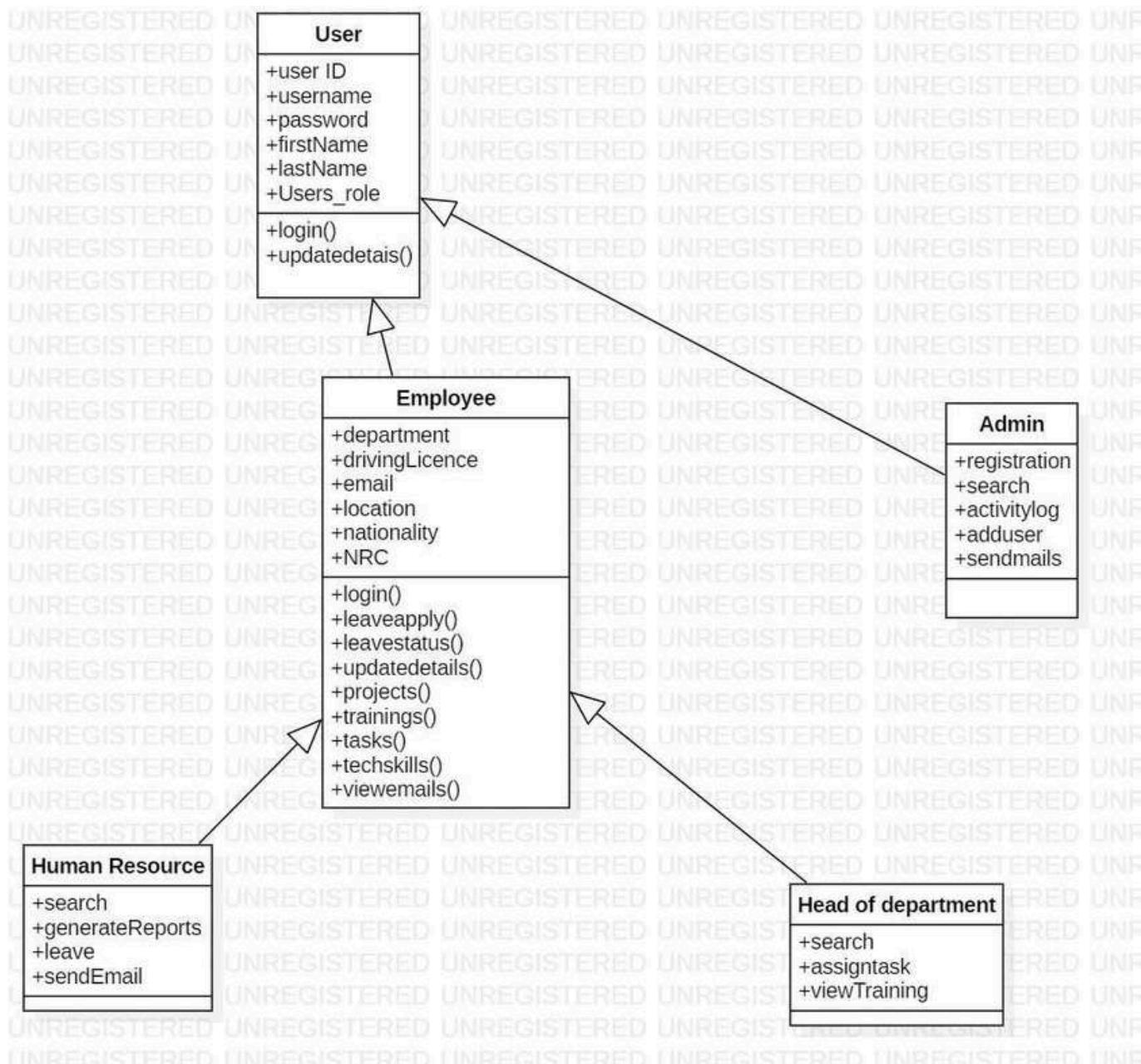




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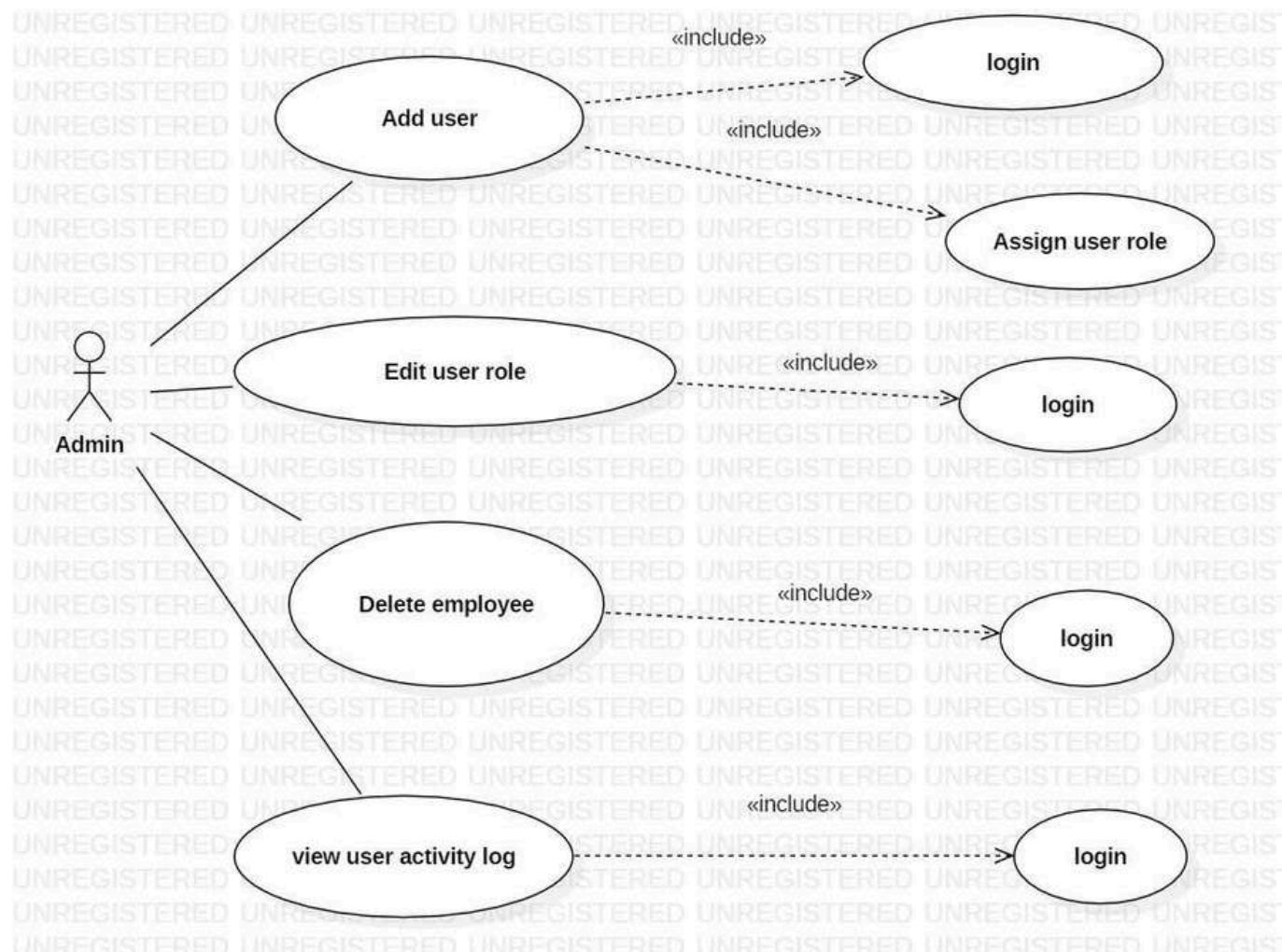




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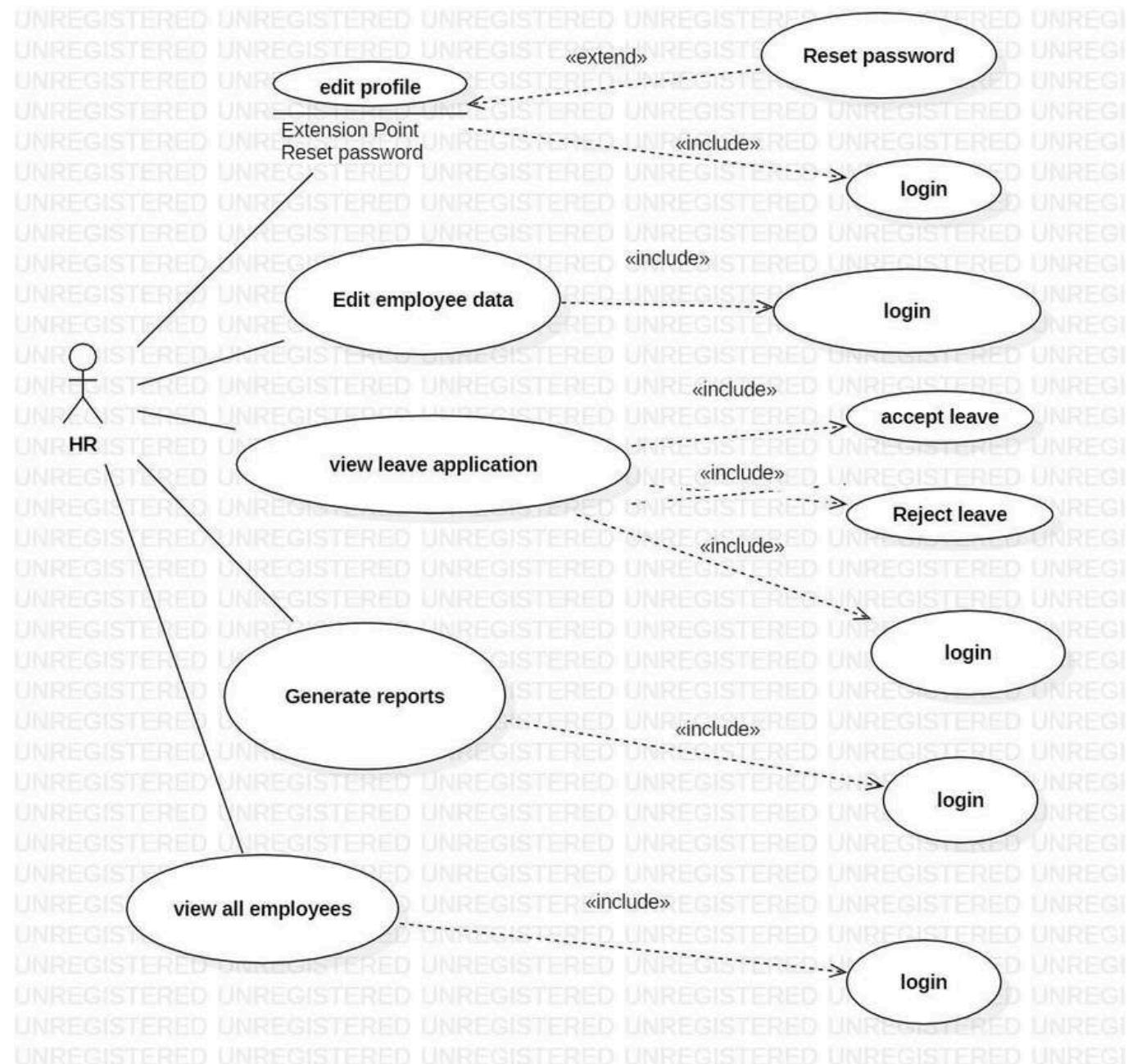




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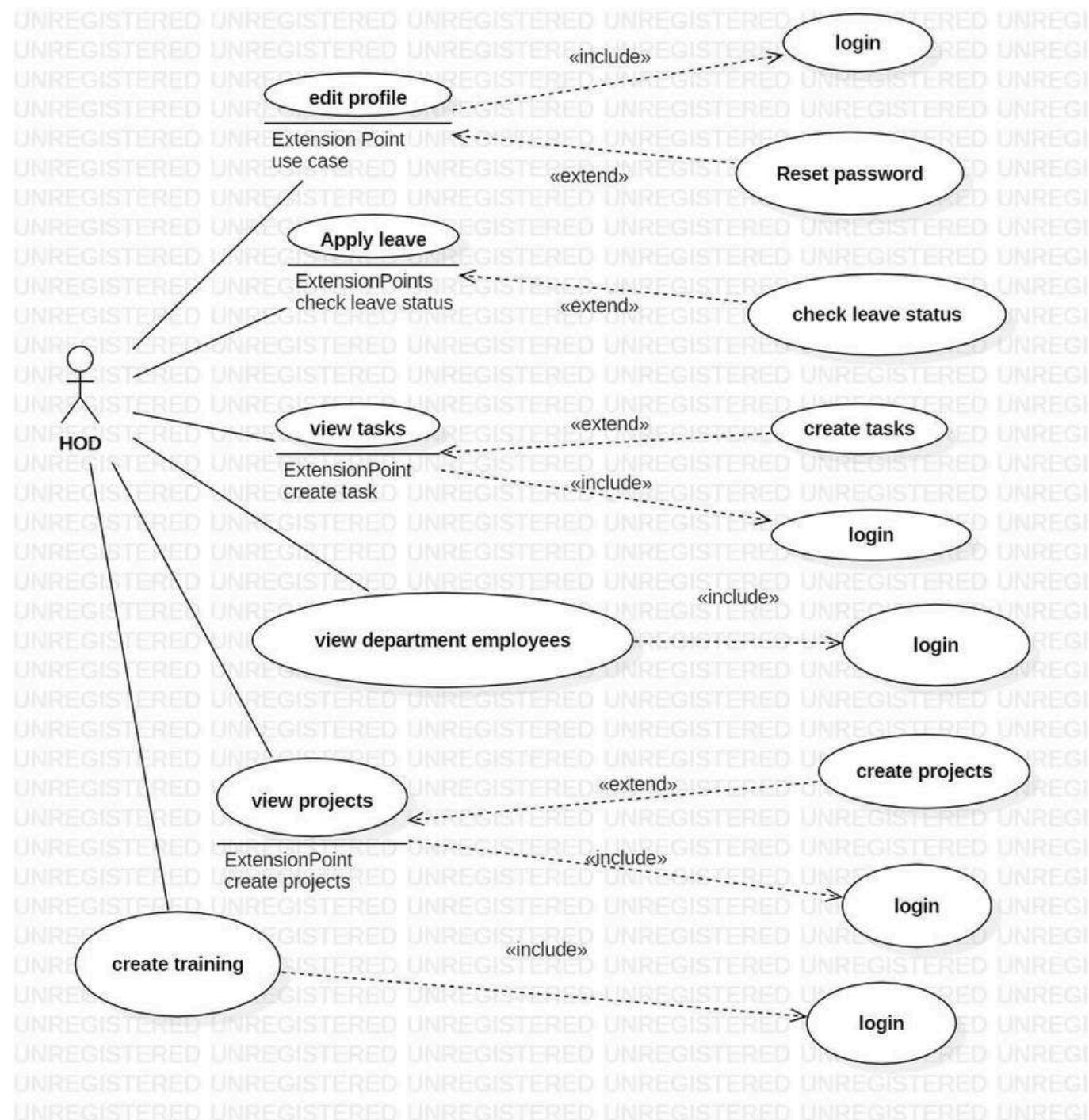




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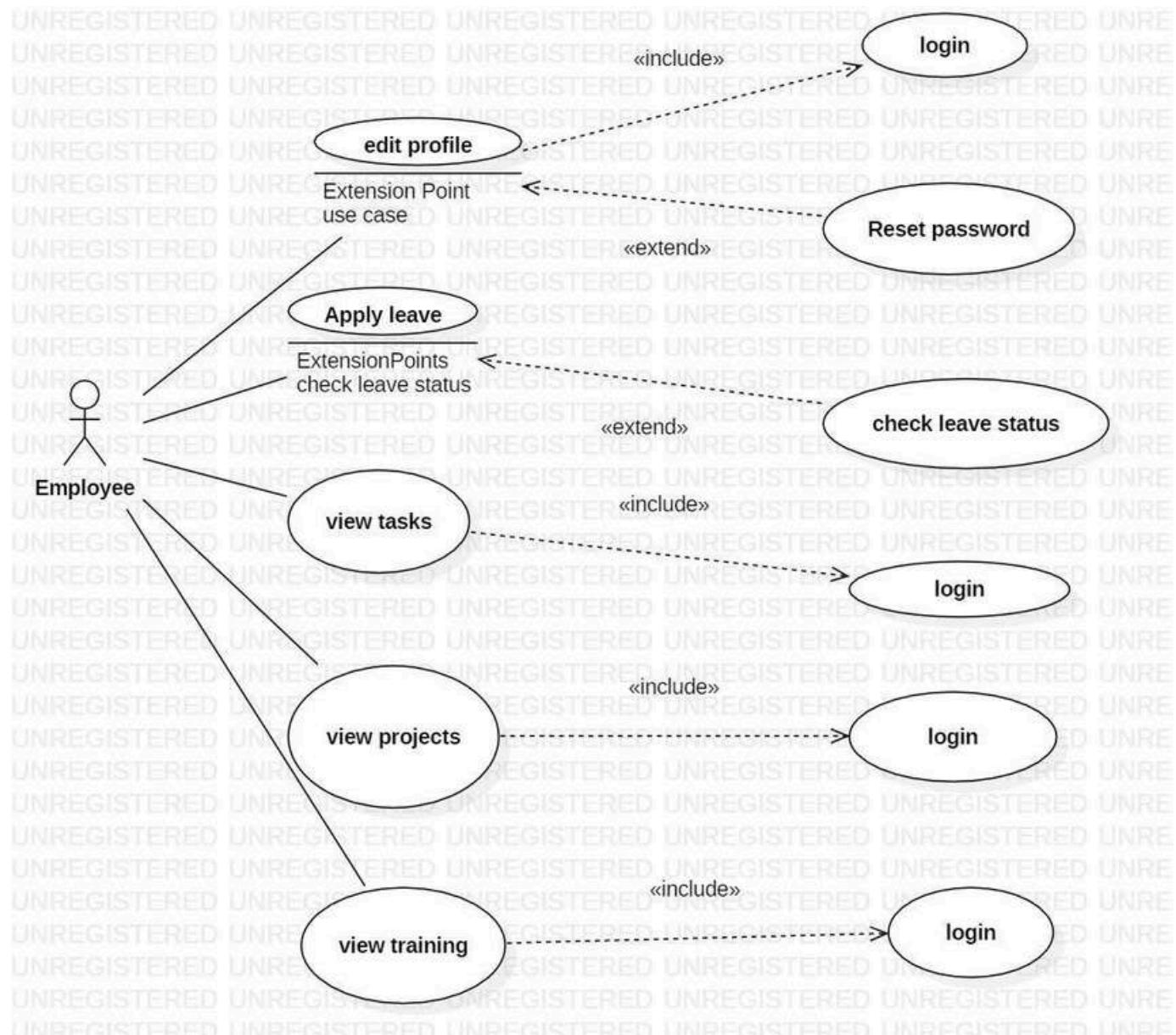




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Staff Leave Management

Select All

<input type="checkbox"/> CS1001	Ram
<input type="checkbox"/> CS1002	Sam
<input type="checkbox"/> ME1001	Latha
<input type="checkbox"/> CS1003	Raja
<input type="checkbox"/> EE1001	Bala
<input type="checkbox"/> EE1002	Mahesh
<input type="checkbox"/> EE1003	Nikitha
<input type="checkbox"/> CS1004	mahesh

Message:

Clear **Send**

Sending Messages



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Leave Status

From Date

To Date

Status

Command

Leave Status

Easy Leave

Staff Leave Details

Staff ID	Name	Leave Type	Start Date	End Date	Reason	Status	Command
CSL001	Ram	CL	2016-09-01	2016-09-04	Holiday	Accepted	OK
CSL001	Ram	CL	2016-09-02	2016-09-05	Fest	Accepted	Wg
CSL002	Suri	CL	2016-10-01	2016-10-03	Leave	Accepted	Take care
CSL002	Suri	CL	2016-10-01	2016-10-02	Holiday	Accepted	accept
CSL004	mahesh	CL	2016-02-15	2016-02-19	test	Accepted	OK
CSL001	Ram	CL	2016-02-01	2016-02-02	test	Rejected	

Leave Report



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Leave Apply

Leave Type CL

Start Date

End Date

Reason

Submit

Apply Leave

Easy Leave

Leave Requests

ID	Staff ID
1	CO1003

Request

Staff ID: CO1003
Name: Ramu
Leave Type: CL
Start Date: 1-Feb-2018
End Date: 2-Feb-2018
Reason: Test
Command: ok
Status: Accept Reject
Save

Leave Reports



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Admin Home

Add Staff

ID	Staff ID	Name	Age	Age	Dept	DOB	Address	Contact	Password
1	CS1001	Ram	22	Male	CSE	2018-6-	Salem	987654	123
2	CS1002	Dam	25	Male	CSE	2018-5-	Salem	987654	12345
3	ME1003	Lalit	25	Male	Mech	2018-1-	Salem	987654	1232
4	CS1004	Raja	25	Male	CSE	2018-2-	AJMER	987654	1234
5	EE1005	Shiv	25	Male	EEE	2018-3-	AJMER	987654	1235
6	EE1006	Mahesh	25	Male	EEE	2018-4-	AJMER	987654	1236
7	EE1007	Mohit	22	Male	EEE	2018-1-	Salem	987657	1237
8	EE1008	Mohit	29	Male	EEE	2018-2-	Hyderabad	987657	123456

Staff Details

Name:

Age:

Gender: Male Female

DOB:

Department: CSE

Address:

Contact:

Password:

Add Employee

Change Password

Old Password:

New Password:

Retype:

Change Password

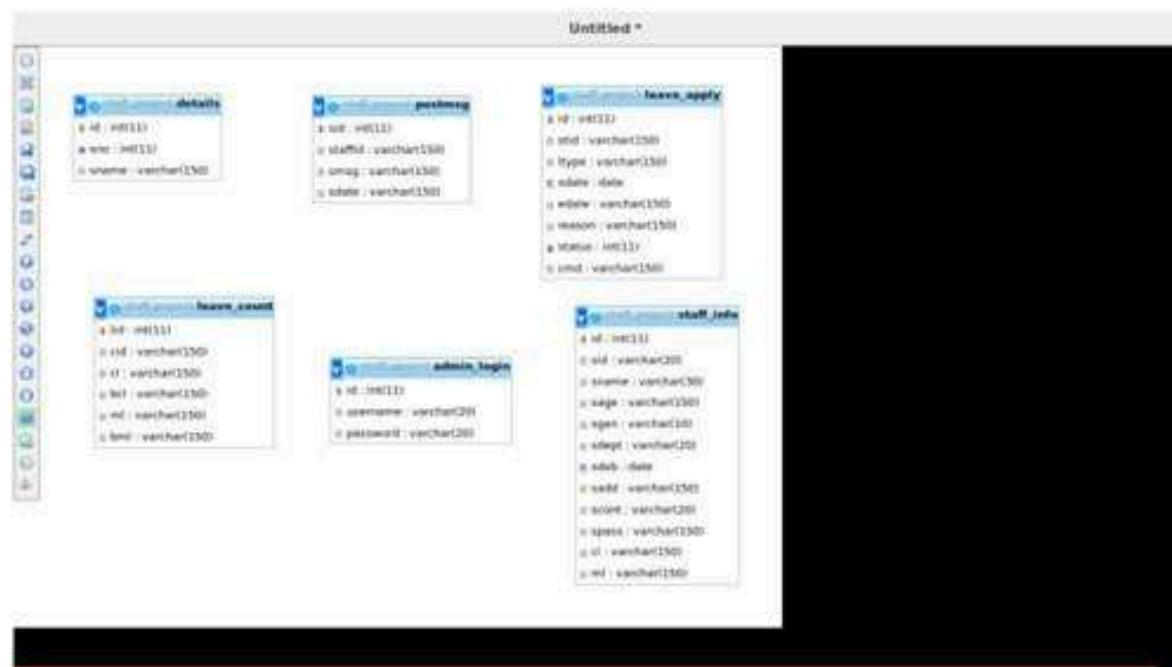


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Database Design



Admin Login

The screenshot shows a user interface for an administrative login system. The top navigation bar includes links for Staff, Leave, Report, Send Message, and Logout. The main title "Easy Leave" is centered above a placeholder image of a person in a suit and tie.



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EXPERIMENT 3

E Bidding

Scope:

The “E-Bidding”, a place for buyers and sellers to come together and trade almost anything.

In fact, the system consists in a web-portal where registered users can propose new bids, place bids in order to buy the items on bid, send messages to other users and receive automatically news via e-mail (when they receive new offers for the proposed bids, when an bid is over etc.).

Existing System

- The existing Bidding System for antique item is managed manually.
- The user who want to sales there things or items by auction than he would announce for that through the media or other way.
- Users who need to buy there things than he attend the place of bidding.
- It covers only limited Area.
- Limited Bidders and Sellers.

Need for new system

- The E-Bidding system is use in 'Anyone, Anytime, Anywhere'.
- The “ E-Bidding System” is online bidding house so the Bidder doesn't need to go anywhere they can take part in the auction just sitting in the comfort of their living room, be it during the day or night.
- This site also acts as an open form where buyers and sellers can come together and exchange their items.
- It covers Large No of Sellers and Bidders.

Modules:

- . A Module “is the smallest amount of information (a step) necessary to allow the customer to define (and steer) a path through the system”.



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Registration:

The registration page allows user to provide his/her personal data (name, address, date of birth, fiscal code, email address, phone number, userID, password) and receive a userID and a password. It performs basic checks on entered data and provides user registration or an error message if the userID and/or user fiscal code are already present in the system.

Login

Every time the user tries to access to non-public areas he/she is asked to provide his/her personal ID and password. These are entered through a form. If userID and password are correct, the user is logged in and is no more asked to login throughout the session. Otherwise an error message is raised.

Admin:

From the login, providing his/her username and password, he/she can access the admin page, that shows the administrator menu to access all the administration activities (manage items, manage users, manage products, manage bid).

Manage Product:

The administrator can access all data products stored in the database and also add product, delete .

Manage Users:

The administrator can access and modify all data about users stored in the database and also delete them.

Manage Bid: The administrator can manage the following



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Start/close bid: Admin can start and close the bid

Post an bid:

From his/her personal page, the admin can post an bid from a specific form. If the bid is accepted by the system, the item is listed in the user personal page and other users can place a bid for it.

Hardware Requirements

Server side:-

Processor 2.20GHz

RAM 2GB

Hard disk :- 10 GB Free Space

Client side:-

Processor 2GHz

RAM 1GB

Hard disk :- 4 GB Free Space

Software Requirements

Server side:-

Operating System : Windows server 2003 or any compatible server OS

Framework : .net framework 4.0 web server IIS6.0

Front End : ASP.NET with C#(.NET framework 4.0)

Back End : SQL Server 2008

Client side:-

Operating System : Windows XP or any compatible OS

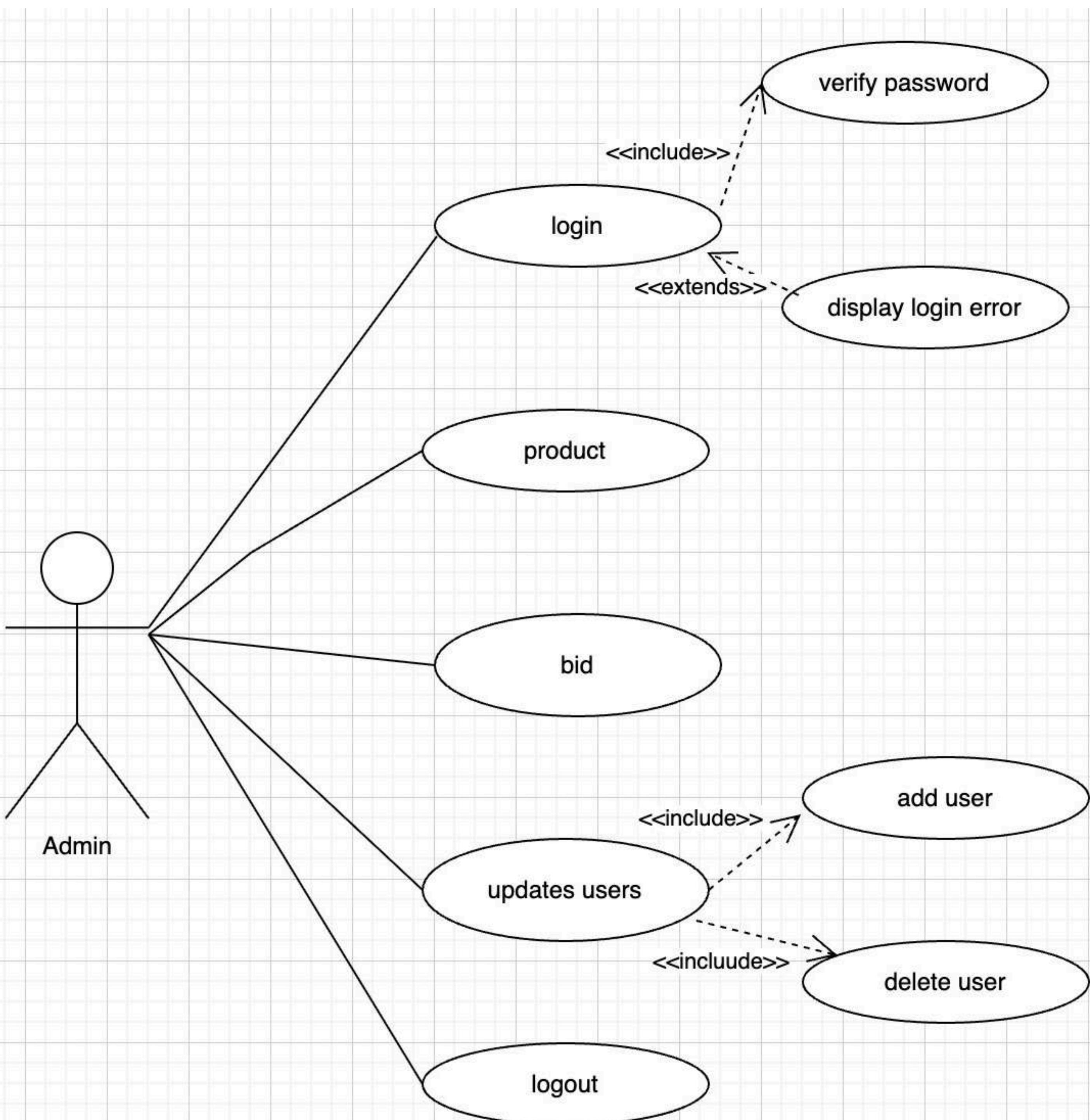
Browser : Internet Explorer 6.0 or any compatible.



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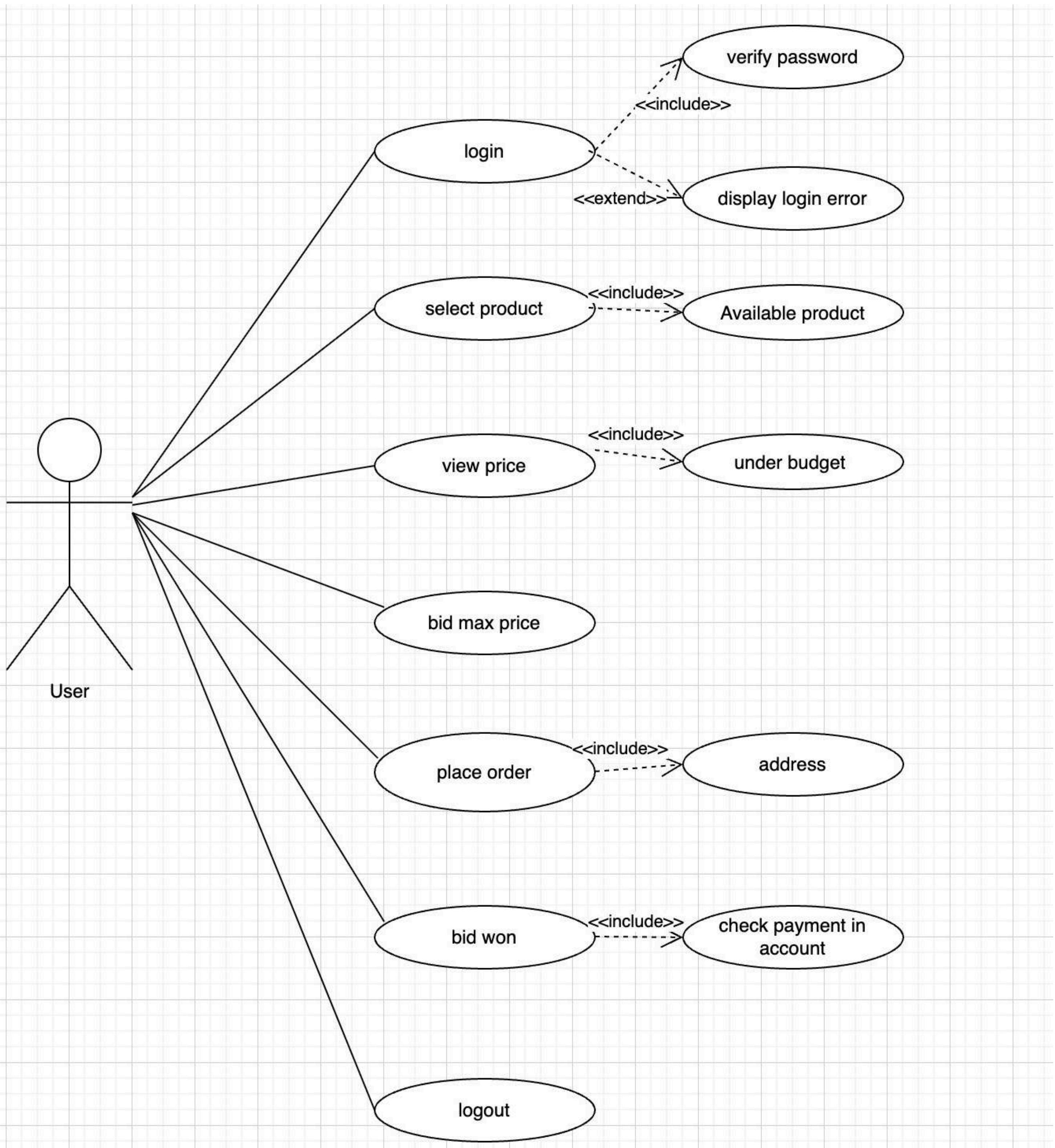




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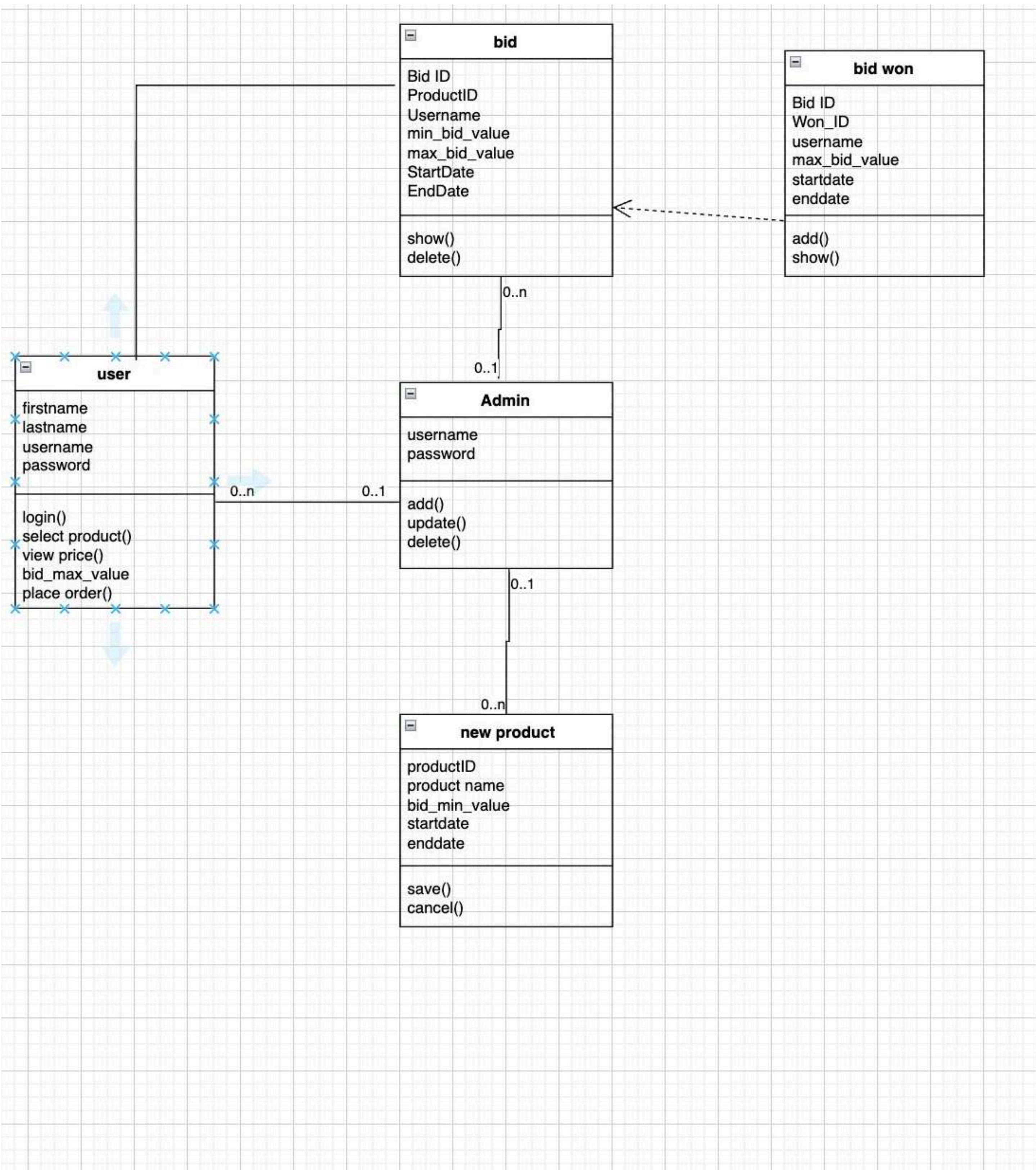




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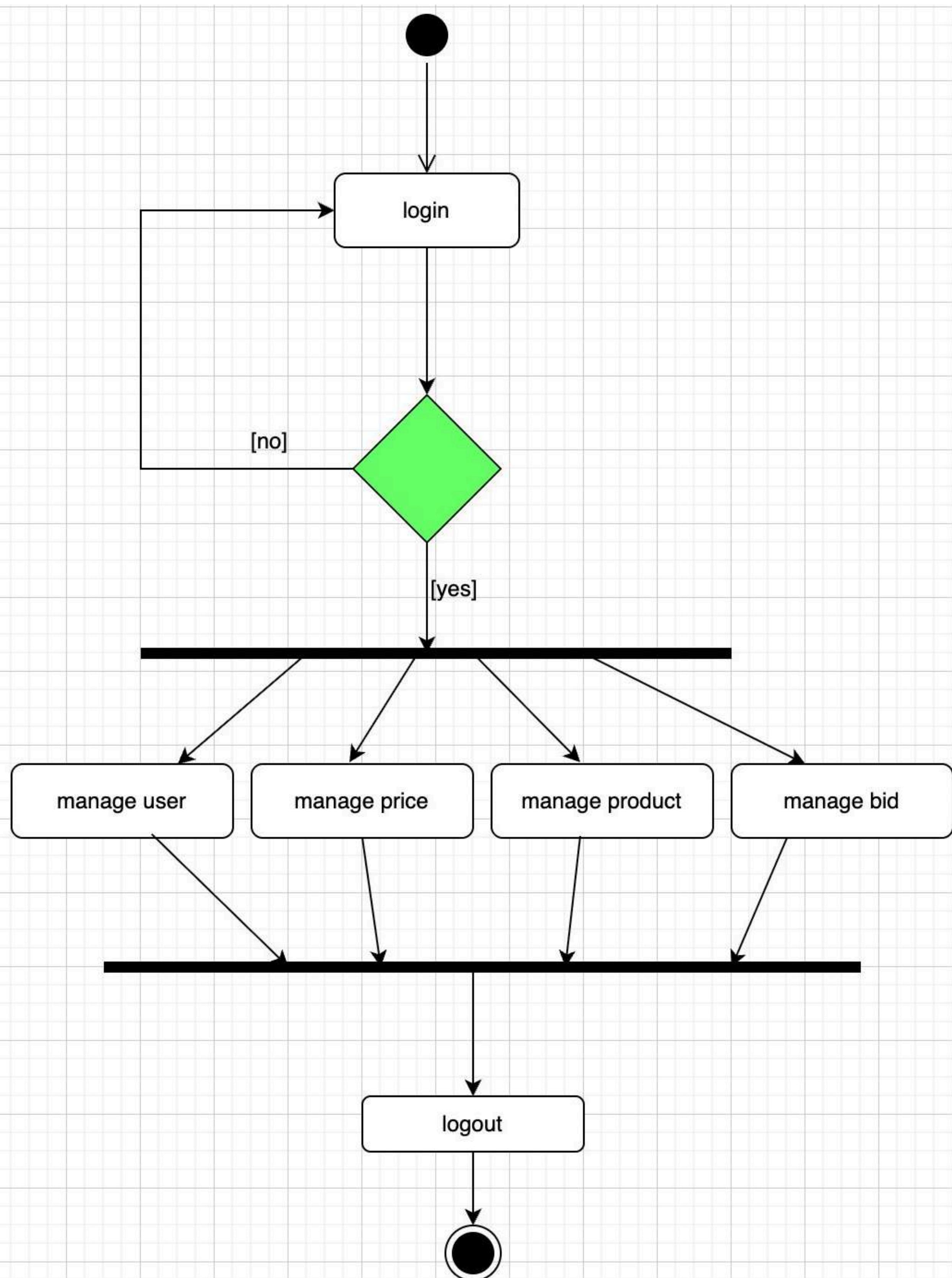




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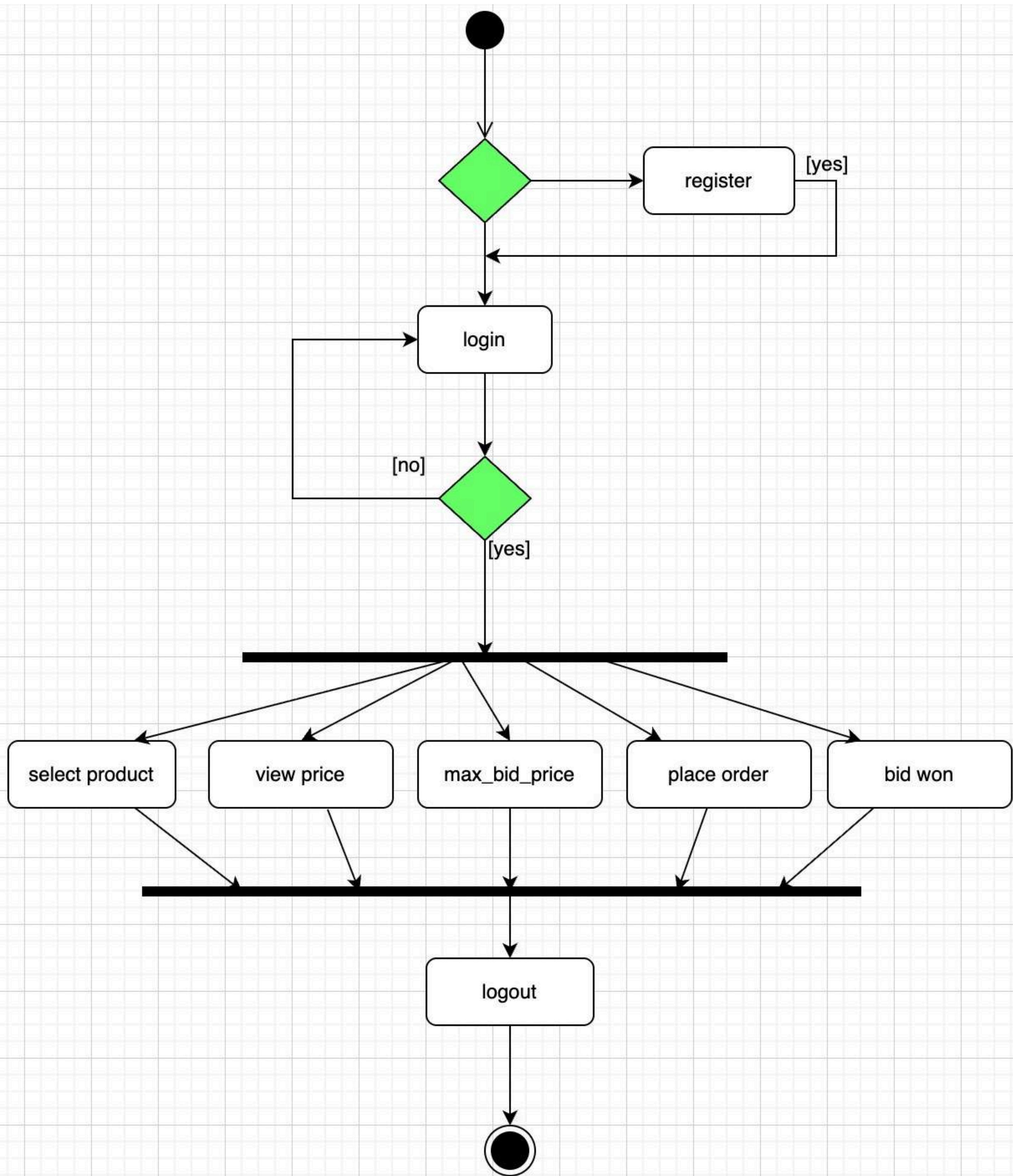




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Database Tables

Table structure for table 'bids'

```
--CREATE TABLE IF NOT EXISTS `bids` (
    `id` bigint(10) NOT NULL AUTO_INCREMENT,
    `productid` int(11) NOT NULL,
    `userid` varchar(1000) NOT NULL,
    `bidamount` int(11) NOT NULL,
    `bidtime` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY (`id`)
)
ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=3 ;
```

-- Dumping data for table 'bids'

```
--INSERT INTO `bids` (`id`, `productid`, `userid`, `bidamount`, `bidtime`) VALUES
(1, 1, '1001', 28000, '2018-02-15 19:11:53'),
(2, 2, 'tpsaikrishna', 40000, '2018-02-16 12:07:03');
```

Manual of the System

Here we will give a short guide of the system.



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Admin Login



Admin Dashboard





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Add New Product

New Product

Add New Product

New Product entry

Product ID	<input type="text"/>
Product Name	<input type="text"/>
Min Bid Value	<input type="text"/>
Max Bid Value	<input type="text"/>
Start Date	<input type="text"/>
End Date	<input type="text"/>

Update

Add and Update User

Add User

Name	<input type="text"/>
Username	<input type="text"/>
Age	<input type="text"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female
DOB	<input type="text"/>
Address	<input type="text"/>
Contact	<input type="text"/>
Password	<input type="text"/>

User Details

ID	Username	Name	Age	Age	DOB	Address	Contact	Password
1	psalitisha	Sai Mishra	26	Male	2016-09-01	Something	9876543210	tele123
4	Ramaheesh	Sam	25	Male	2018-10-07	Salem	9855741230	tele1235
5	ME1001	Unknown	25	Male	2018-10-07	Salem	9362514780	321
6	CS1003	Raga	25	Male	2018-10-15	Atur	9865741230	654
7	EE1001	Bala	25	Male	2018-10-06	Atur	9865741232	547
8	EE1002	Maheesh	25	Male	2018-10-05	Salem	9865741230	214
9	EE1003	Nitha	22	Male	2018-10-05	Salem	9865741230	123

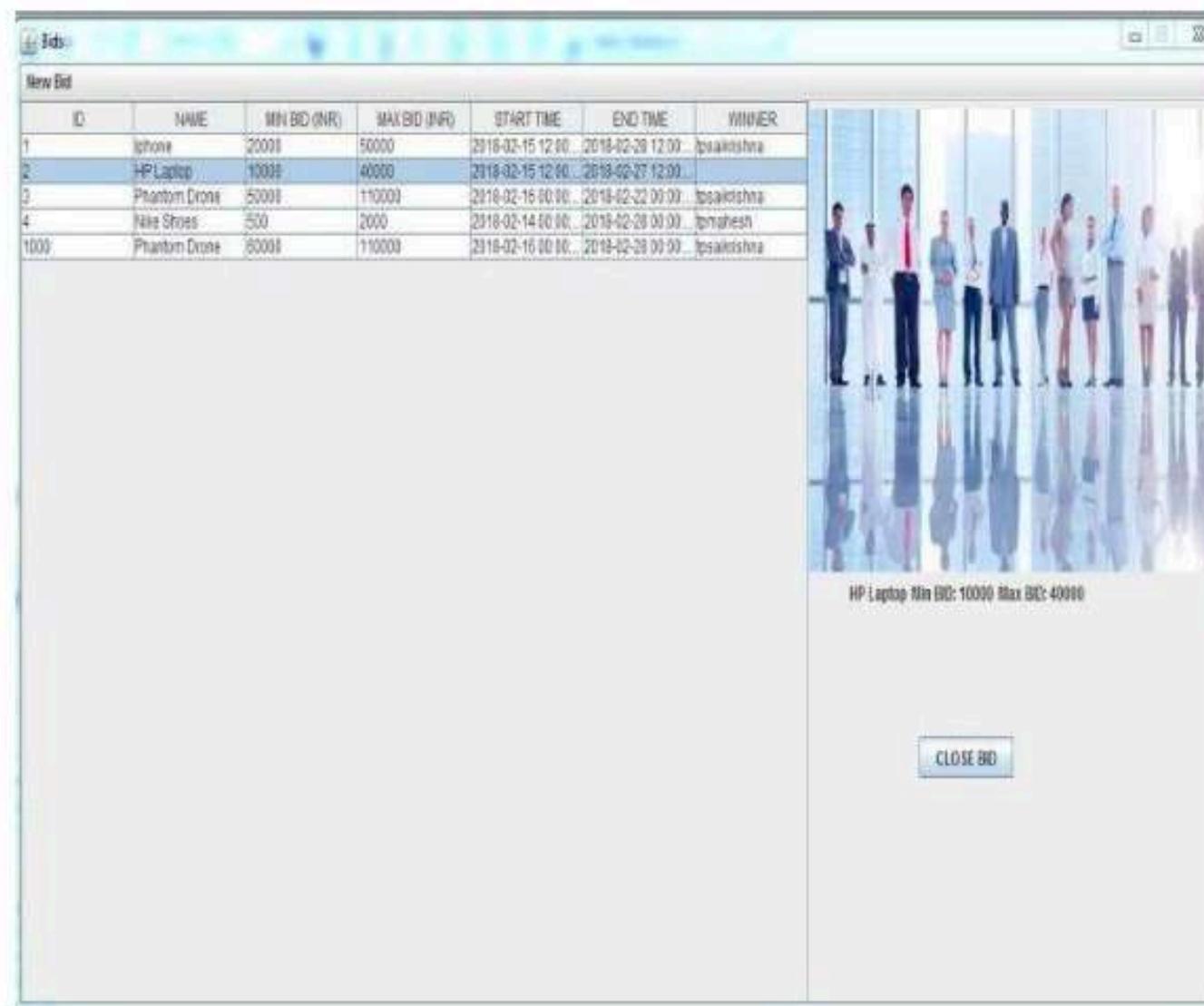


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E-Bid Close





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Dashboard

Screenshot of a Windows application window titled "New Bid". The window contains a table of bids and a bidding interface.

ID	NAME	MIN BID (INR)	MAX BID (INR)	START TIME	END TIME	WINNER
1	Iphone	20000	50000	2018-02-15 12:00	2018-02-28 12:00	tsaikrishna
2	HP Laptop	10000	40000	2018-02-15 12:00	2018-02-27 12:00	
3	Phantom Drone	50000	110000	2018-02-16 00:00	2018-02-22 00:00	tsaikrishna
4	Nike Shoes	500	2000	2018-02-14 00:00	2018-02-28 00:00	tmahesh
1000	Phantom Drone	50000	110000	2018-02-16 00:00	2018-02-28 00:00	tsaikrishna

HP Laptop Min Bid: 10000 Max Bid: 40000

40000 Place Bid



Screenshot of a Windows application window titled "New Bid". The window contains a table of bids and a bidding interface. A message dialog box is displayed in the center.

ID	NAME	MIN BID (INR)	MAX BID (INR)	START TIME	END TIME	WINNER
1	Iphone	20000	50000	2018-02-15 12:00	2018-02-28 12:00	tsaikrishna
2	HP Laptop	10000	40000	2018-02-18 12:00	2018-02-27 12:00	
3	Phantom Drone	50000	110000	2018-02-16 00:00	2018-02-22 00:00	tsaikrishna
4	Nike Shoes	500	2000	2018-02-14 00:00	2018-02-28 00:00	tmahesh
1000	Phantom Drone	50000	110000	2018-02-16 00:00	2018-02-28 00:00	tsaikrishna

Message

You have won HP Laptop!

OK

HP Laptop Min Bid: 10000 Max Bid: 40000

40000 Place Bid





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EXPERIMENT 4

Electronic Cash Counter System

Introduction

E-Cash : An anonymous electronic cash system; equivalent to "cash" or "printed bank notes" except that it is transferred through networks with bits of information, in essence it is just another representation of monetary value; anonymity is preserved through public key cryptography, digital signatures, and blind signatures.

E-Cash Counter is specially developed for online banking for Balance Enquiry, Fund Transfer to another account in the same bank, Request for cheque book/change of address/stop payment of cheques, Statements (Viewing Monthly and annual statements), deposits, and withdrawal of E-cash
..

Existing System

The Existing system is based on banking online with the help of the internet without the Deposits and the Withdrawals .The customer has to visit the nearest ATM for Deposits as well as withdrawal.

Scope

This Project investigates the entry threshold for providing a new transaction service channel via the real options approach, where the entry threshold is established by using an system designed for the use of normal users (individuals), under transaction rate uncertainty. Customer must have a valid User Id and password to login to the system.

- If a wrong password is given thrice in succession, that account will be locked and the customer will not be able to use it. When an invalid password is entered a warning is given to the user that his account is going to get locked.
- After the valid user logs in he is shown the list of accounts he has with the bank.
- On selecting the desired account he is taken to a page which shows the present balance in that particular account number.
- User can request for the details of the last 'n' number of transactions that he has performed. A report can also be taken of this.
- User can make a funds transfer to another account in the same bank. User is provided with a transaction password which is different from the login password.
- User can transfer funds from his account to any other account with this bank. If the transaction is successful a notification should appear to the customer, in case it is unsuccessful and a proper message should be given to the customer as to why it failed.



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- User can request for cheque book/change of address/stop payment of cheque's
- User can view his monthly as well as annual statements. He can also take print out of the same.
- Administrator can take a back up of the database for every instance that is happening, periodically.
- All users are authenticated to avail the services
- FAQ section is also included for end users benefit.

Product Modules:

The Electronic Cash Counter system consists of following modules

- Login Process: This module allows valid customers to access the functionalities provided by the bank.
- Balance Enquiry: This module maintains the balance details of a particular account.
- Update Profile: This module allows the customer to update profile of their account.
- Funds Transfer: This module allows the customers to transfer funds from one account to another within the same bank.
- Change of Password: This module allows customers to change their password.
- Statements: This module allows customers to view their transaction details.
- Deposit: Balance is added to the e-cash Account

Users of the system:

In this Electronic Cash Counter system, the users are

- Administrator
- Customers

Administrator: He is the super user responsible for managing system users, taking system backup, generating reports, maintaining organization details, Starting Sessions and ending Sessions and also manages various requests from different Types of users.

Verifies and validates the information provided by the registered member with respective KYC norms.

Providing Username, Password and other information required for the users to start an account



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Manage Accounts: Providing Username, Password and other information required for the users to start an account and delete an account.

Manage Accounts includes

- Creation of New Accounts
- Deletion of New Accounts
- Maintain Balance

Customer (e-cash users): Ordinary customers have a user name & password with which they can login into their account. They can perform all the transactions such as funds transfer, balance enquiry, cheque book request, etc by abstaining from the Queue

Login: User can login to the system by providing appropriate username and password provided by the administrator.

Manage Accounts: After logging in the user is provided with a screen showing the details of accounts and he selects one of the accounts in order to perform the transaction. It includes

Balance Enquiry: He can view the balance left in his account, if once he has entered into his account.

Funds Transfer: Upon the request the user can transfer funds from his account to other accounts.

Request for cheque book: He can request for cheque book.

Statements: He also can take a Statement print out upon his requirement.

Withdrawal: The user withdraws the e-cash from the account onto her computer and spends it in the Internet without being traced or having personal information available to other parties that are involved in the process

Deposit: The recipients of the e-cash send the money to their bank account as with depositing "real" cash.

Software Requirements

User on Internet : Web Browser, Operating System (any)

Application Server : WAS

Data Base Server : DB2



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Network : Internet

Development Tools : Eclipse (J2EE, Java, Servlets, HTML), DB2, OS (Windows), Application Server.

Hardware Requirements

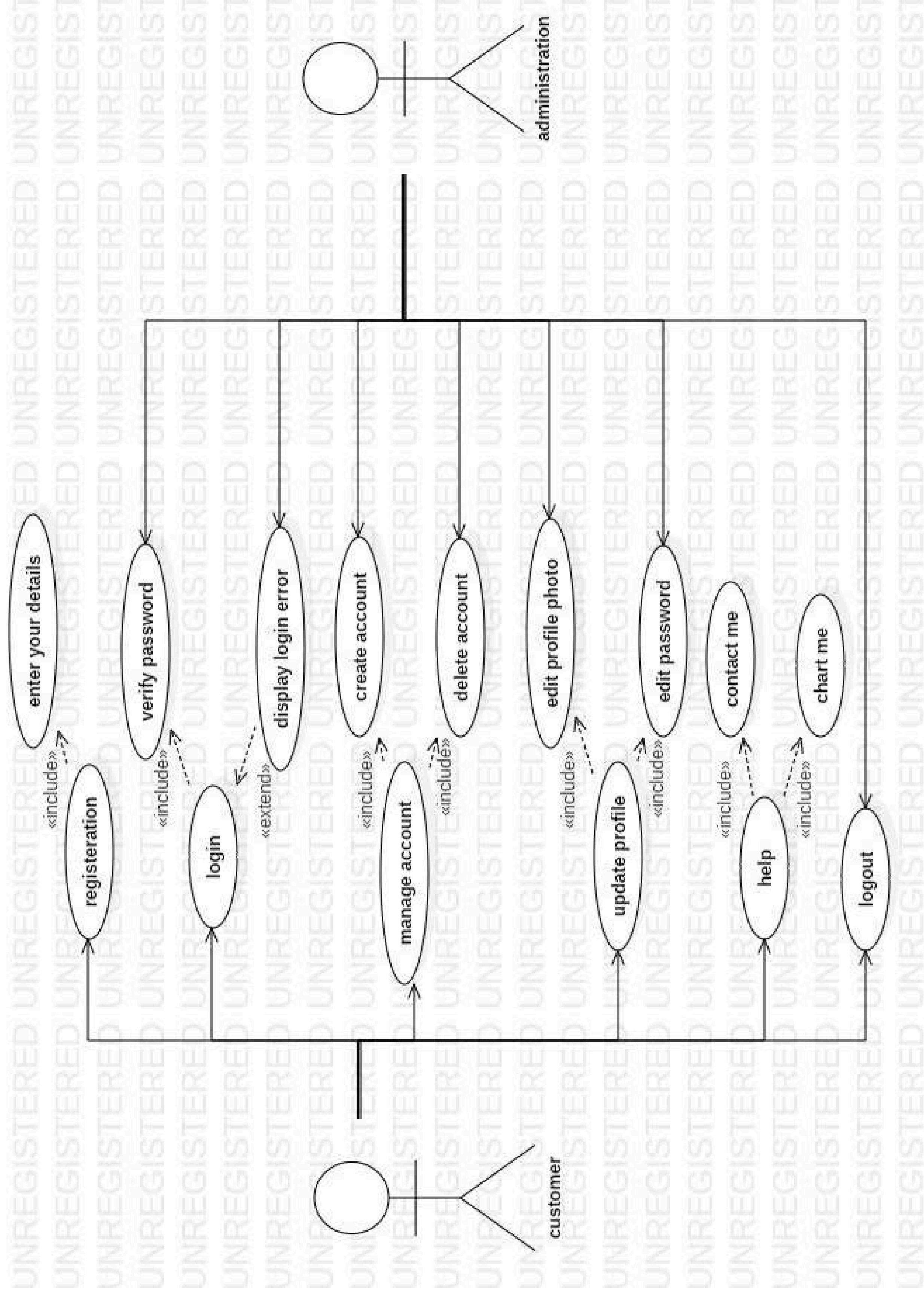
Client Side (IE Along with Printer)			
	Processor	Ram	Disc Space
Internet Explorer 6.0	Pentium II at 1 GHz	1 GB	80 GB
Server Side			
Web sphere application serve V5.0	Pentium III at 1 GHz	1 GB	2 GB
DB2 V8.1	Pentium III at 1 GHz	1 GB	1GB (Excluding data size)



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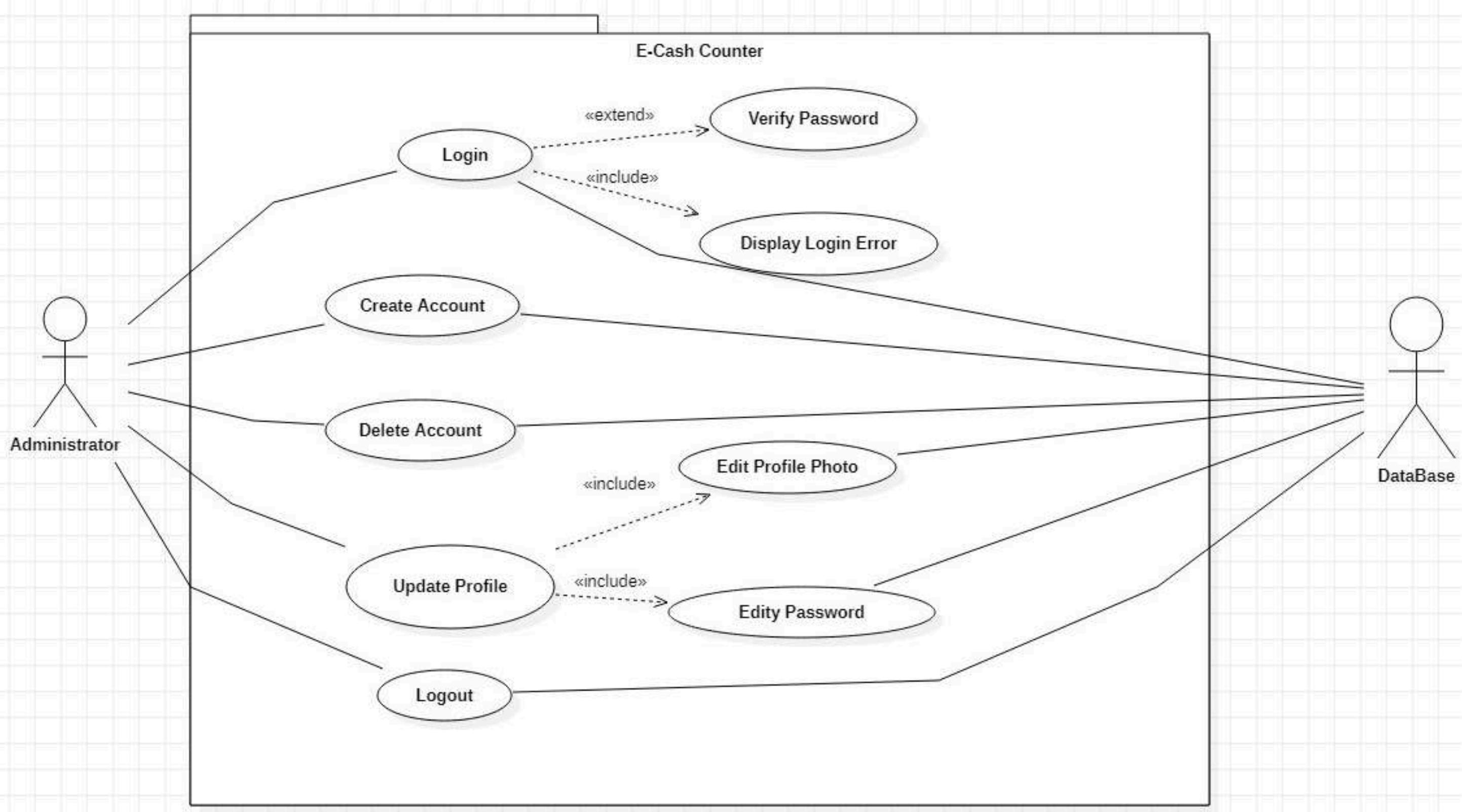




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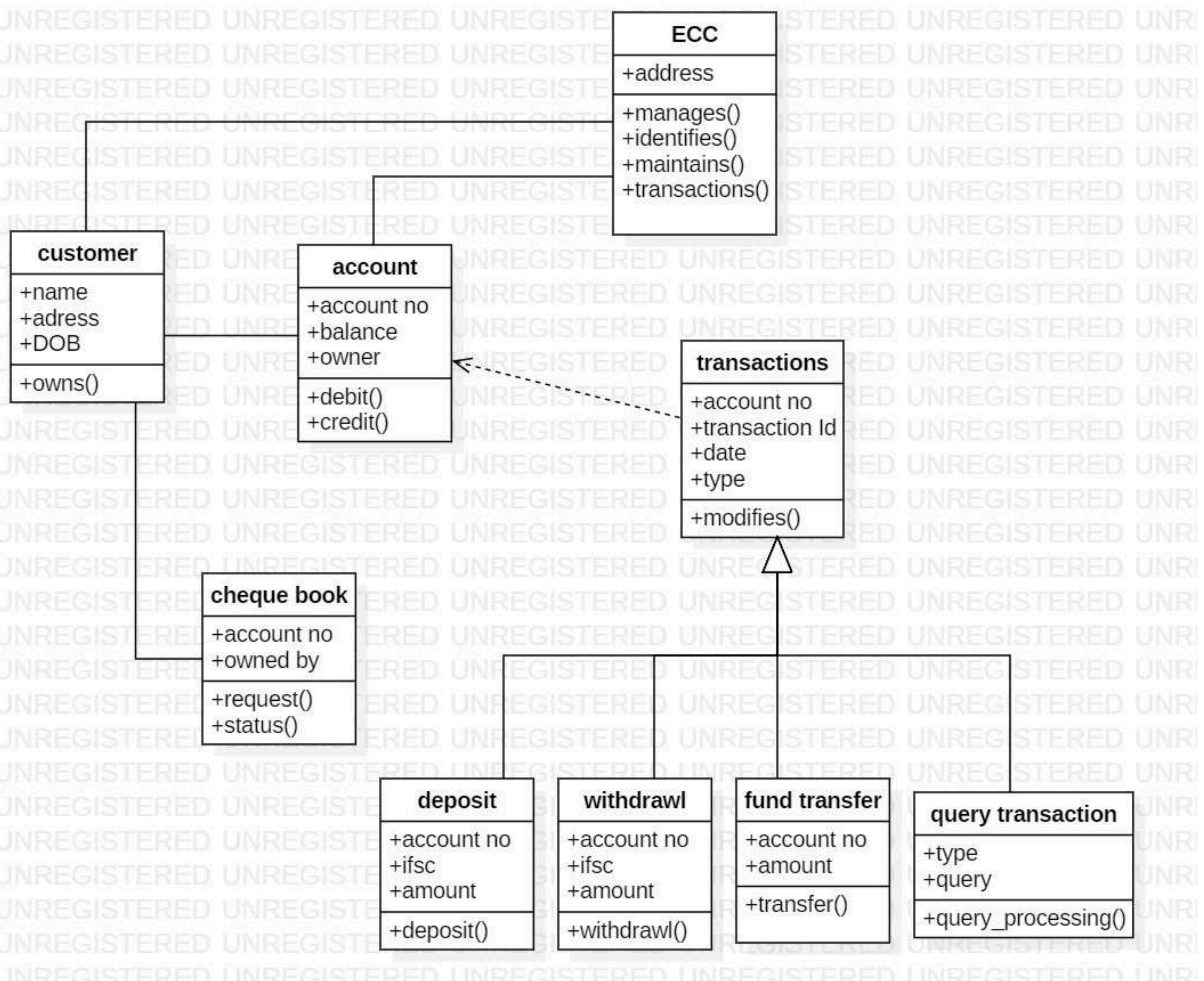




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Specific Requirements

Use-Case Reports

Administrator: He is the super user responsible for managing clients of the system, taking system backup, generating reports, maintaining organization details.

- **Login:** The Administrator can login to the system by providing appropriate username and password.
- **Manage Accounts:** The Administrator assigns new users when a new client joins the online bank. Also he can delete an account when any of the clients leave the bank organization.
- **Maintain Organization Details:** The Administrator maintains entire details of the organization that includes details of the clients, entrepreneur details etc.

Generate Reports: : Responsible for checking the logs of different system users for auditing and maintaining the integrity of the system

Name of Use-Case: Login.



Activity Diagram for Login:

When the user opens the web page, he is shown with a page which asks him whether he is normal or a corporate customer. Then he is redirected to login page. Here the customer is asked to enter user name & password (corporate id if he selects corporate). When the user enters the details

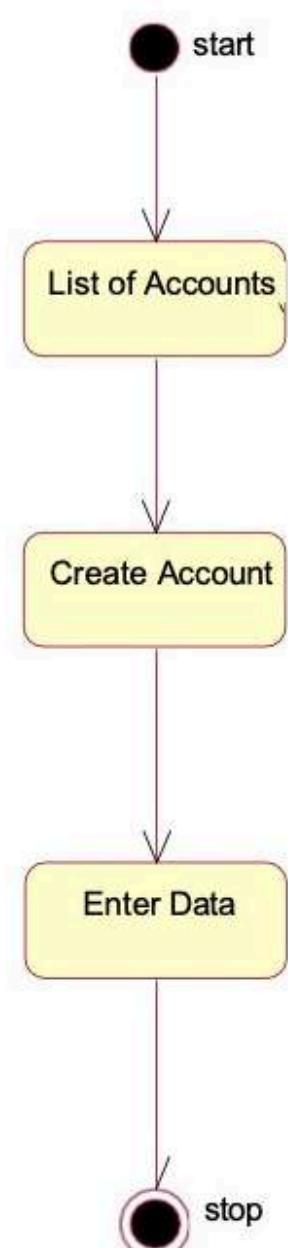
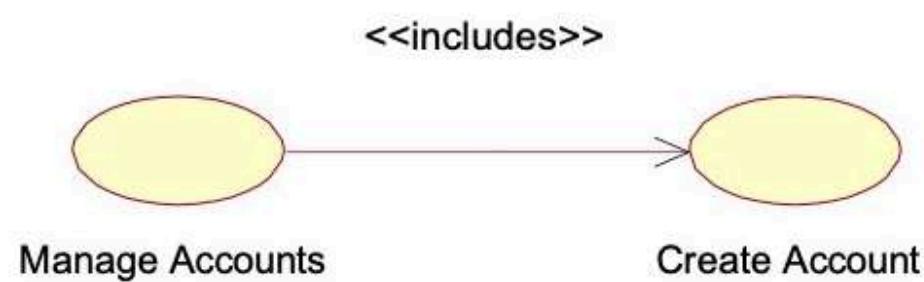


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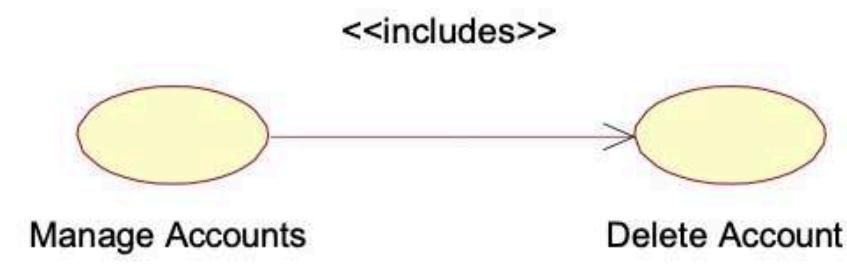
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Creation of Accounts:



Deletion of Accounts:





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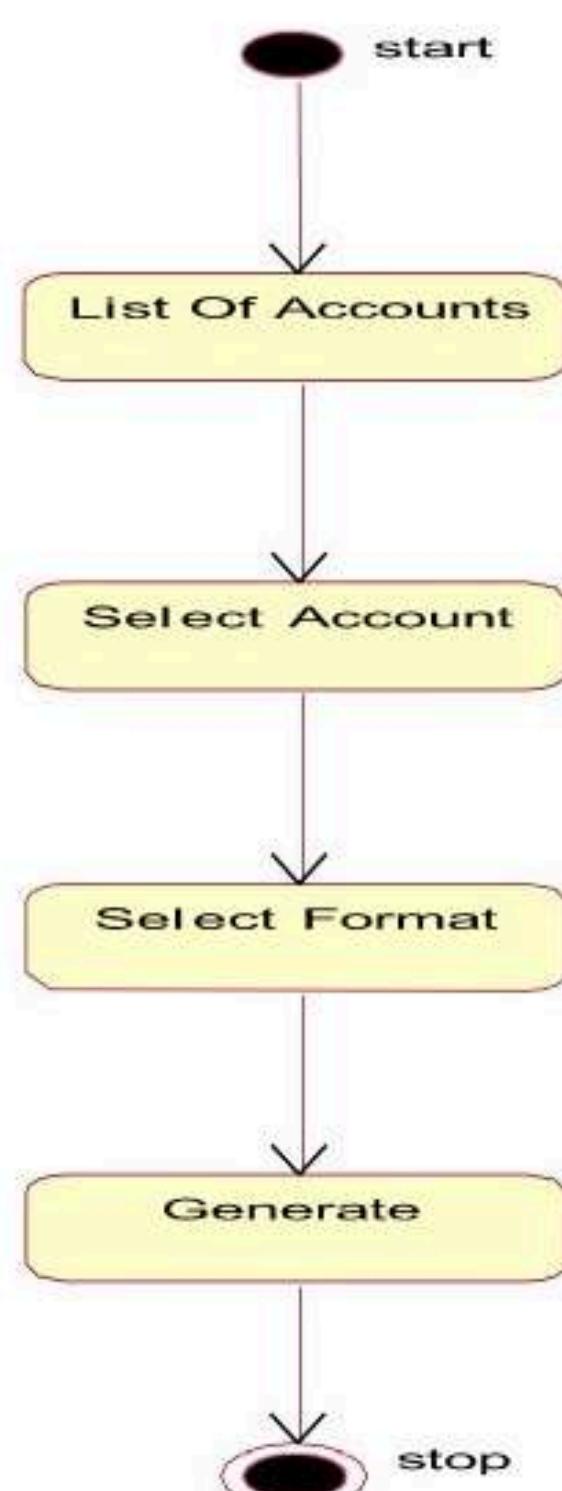
Generate Reports

<<includes>>



Manage Accounts

Generate Reports





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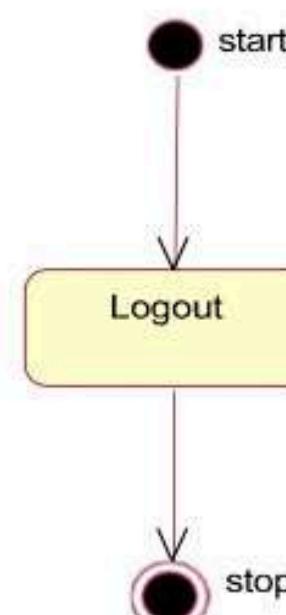
Name : Harshit Suthar | Class: Btech-CSE (3 sem) | Subject: SE Lab

Logout



Activity Diagram for Logout:

The Administrator can Logout.



Customer :

Customers have a user name & password with which they can login into their account.

They can perform all the transactions such as funds transfer, balance enquiry, cheque book request, etc by sitting at their home on internet.



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- **Login:** User can login to the system by providing appropriate username and password provided by the administrator.
- **Manage Accounts:** After logging in the user is provided with a screen showing the details of accounts and he selects one of the accounts in order to perform the transaction.
- **Help:** User can request for any help regarding their queries.
- **Logout:** User can Logout after completion of their banking activities.

➤ **Name of Use-Case:** Login.

Description: Customer must provide a valid User Id and password to login to the system

Preconditions:

Customer must have a valid User Id and password to login to the system.



Activity Diagram for Login:

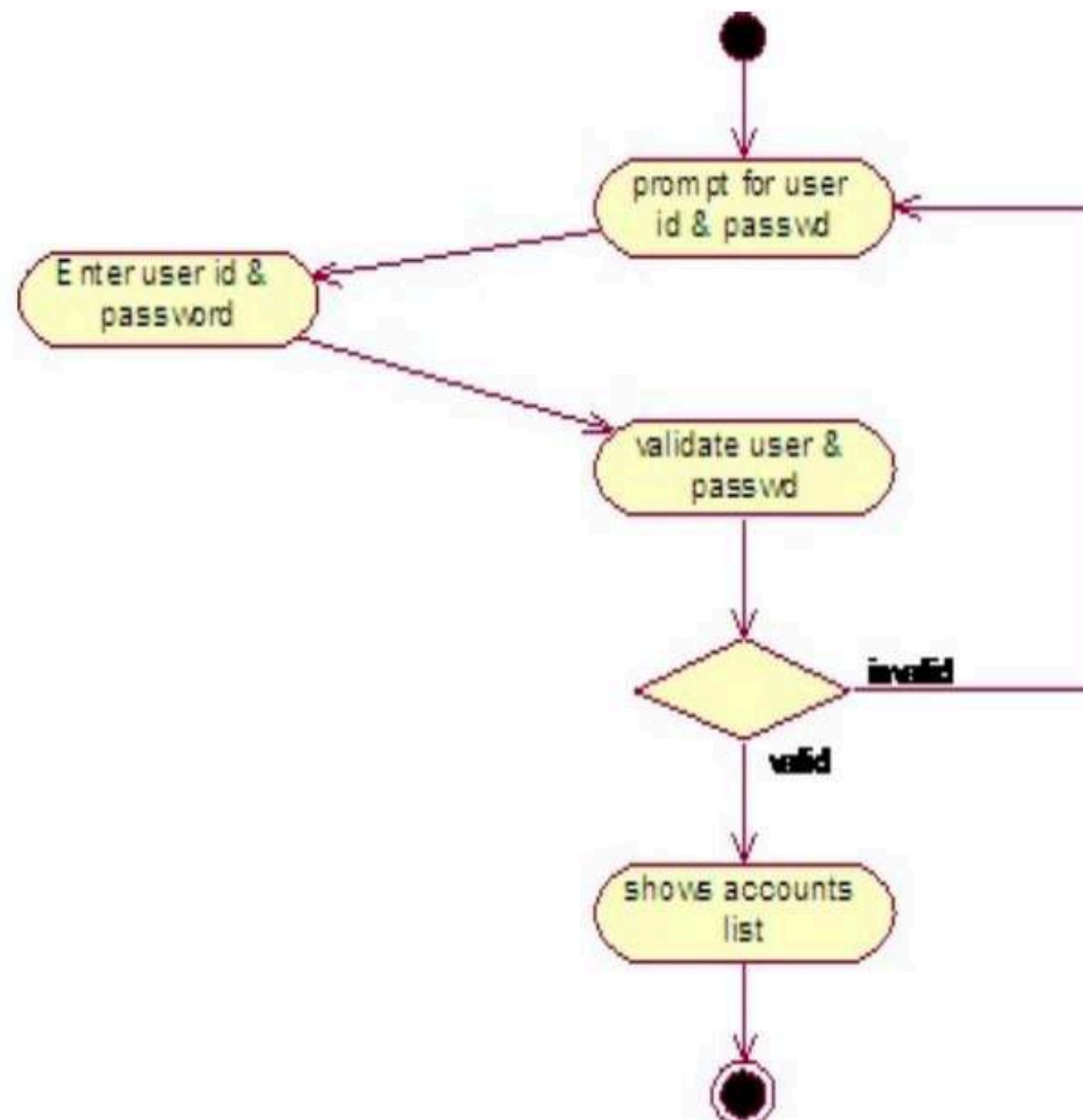
When the user opens the web page, he is shown with a page which asks him whether he is normal or a corporate customer. Then he is redirected to login page. Here the customer is asked to enter user name & password (corporate id if he selects corporate). When the user enters the details & submits it goes to a validation engine where it checks valid/not. If valid he is shown with list of accounts he has with the bank.



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- **Name Of Use-Case:** Manage Accounts.

Description: Here the User can manage all the accounts that he has with the bank.

Preconditions:

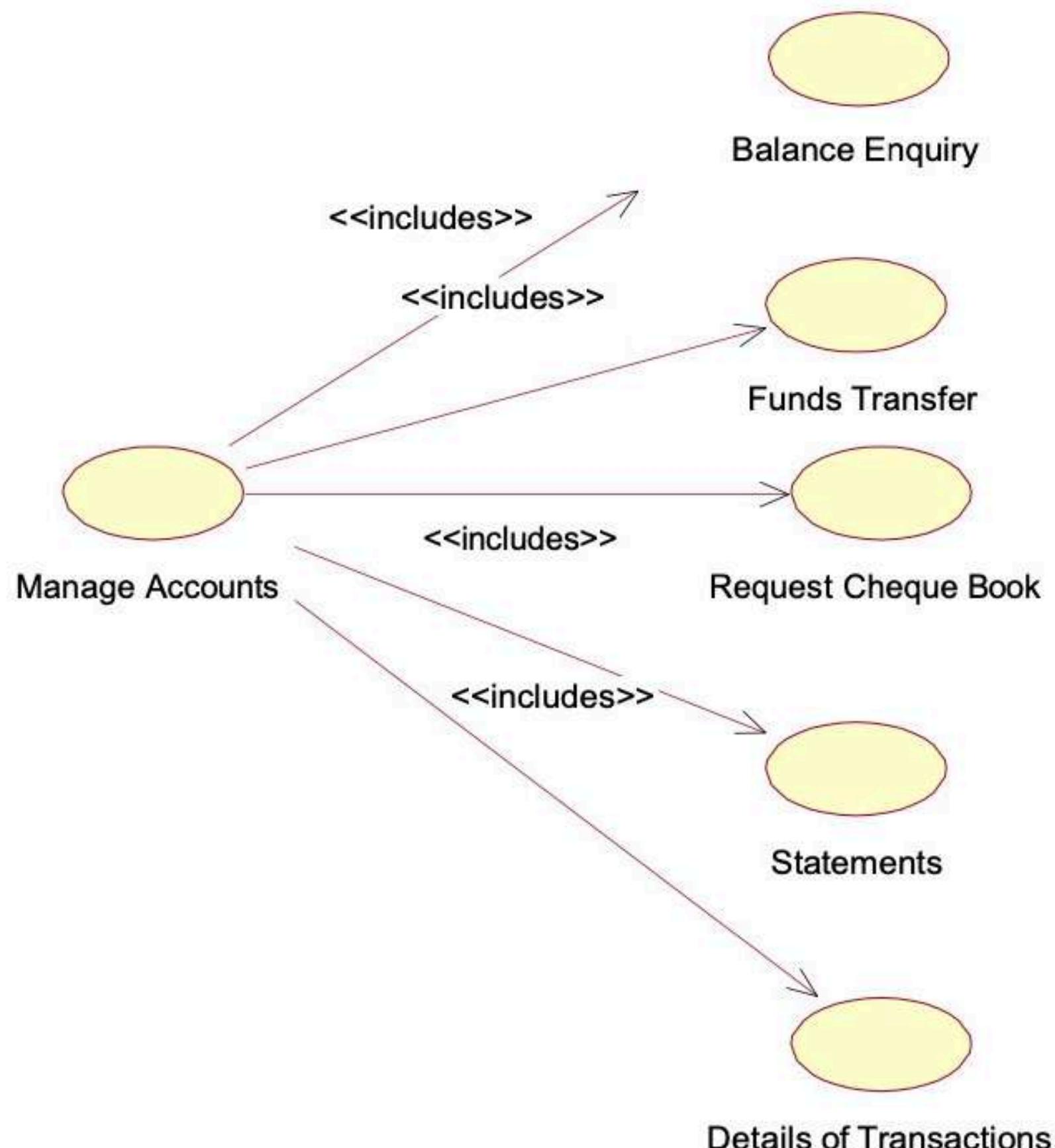
- ¤ Client has already logged in.



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Manage Accounts:

User after logging into his/her account a page is displayed with the basic requirements. The User can perform various actions on his/her account.

- 1) Balance Enquiry.
- 2) Funds Transfer (same bank).
- 3) Request Cheque Book.
- 4) Mini statements.
- 5) Update profile.

Name of Use-Case: Balance enquiry.



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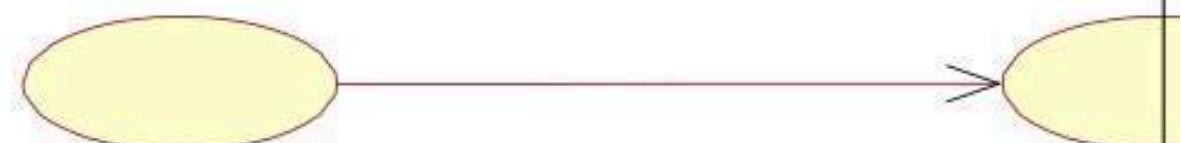
Description: Client can view the balance left in his account, if once he has entered into his account.

Preconditions:

- ▣ The client has already been logged in.

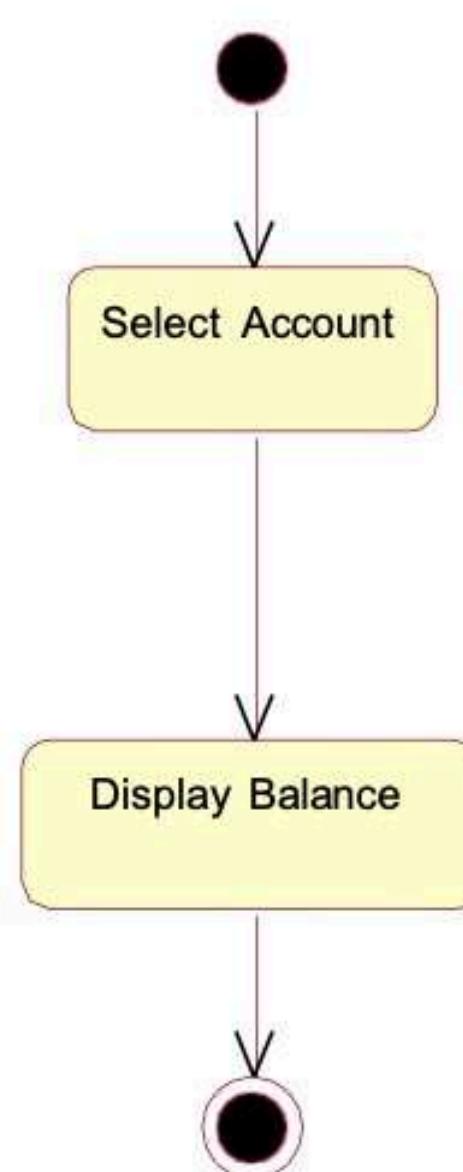
Balance Accounts

Enquiry



Normal Flow of Events:

When the customer needs to check the balance, he selects balance enquiry option from the home page. Then the system checks the balance in his/her account & displays it on the balance enquiry screen.





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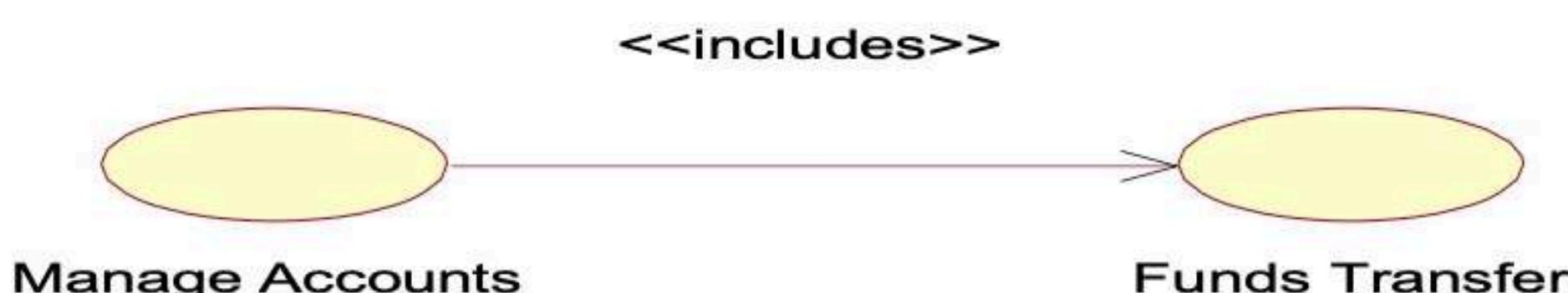
Name : Harshit Suthar | Class: Btech-CSE (3 sem) | Subject: SE Lab

- **Name of Use-Case:** Funds Transfer.

Description: The client can transfer the amount from his account in the bank to the other account in the same bank.

Preconditions:

- ▣ The client has already been logged in.



Activity Diagram for funds transfer:

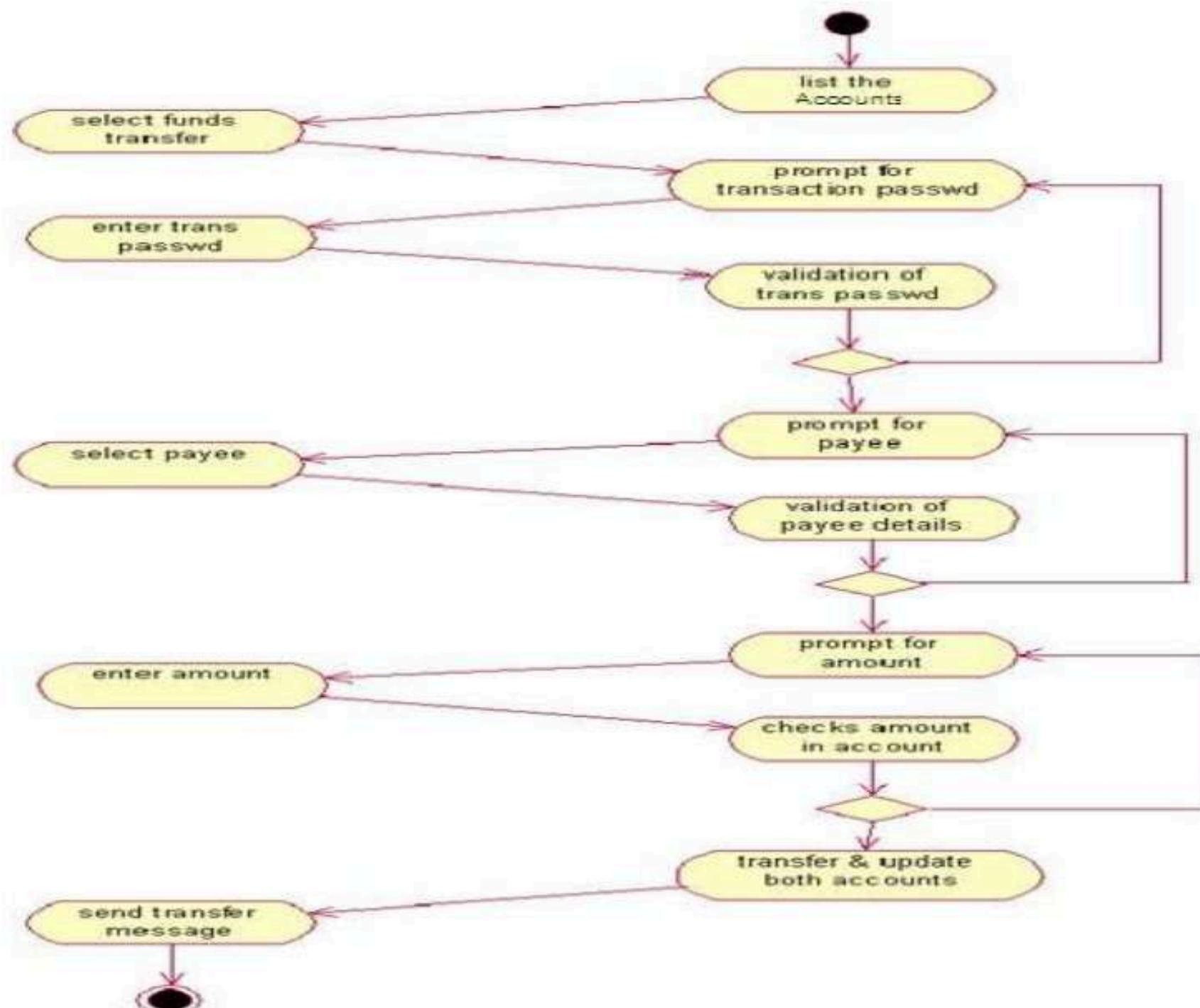
When the customer selects the funds transfer option in the home page. Then the system prompts for transaction password. When the user enters the transaction password, system checks whether the password is correct or not. If valid it prompts for payee & amount. User enters the payee details & amount, system checks whether the balance is available. If available it transfers & updates both the accounts. Customer is notified whether transaction is success or not.



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➤ **Name of Use-Case:** Request cheque book.

Description: The client can request for cheque book by giving the details required.

Preconditions:

- ▣ The client has already been logged in.



Activity diagram for cheque book request:

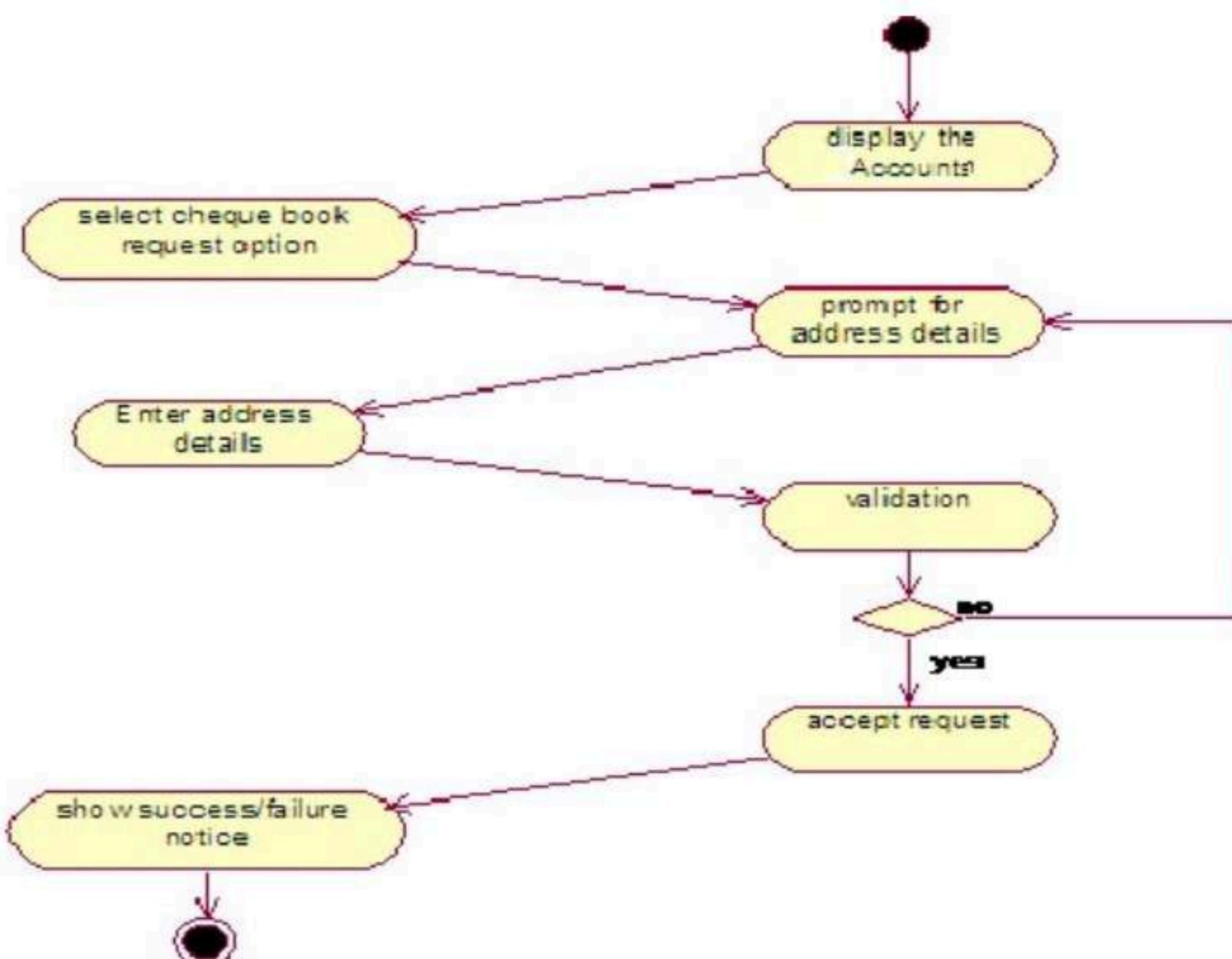


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When the customer requests for a cheque book in the home page, the system prompts for address details of the customer. After entering the particulars it goes to validation engine & checks the particulars are valid or not. If valid it accepts the request & proper message is displayed to the customer.

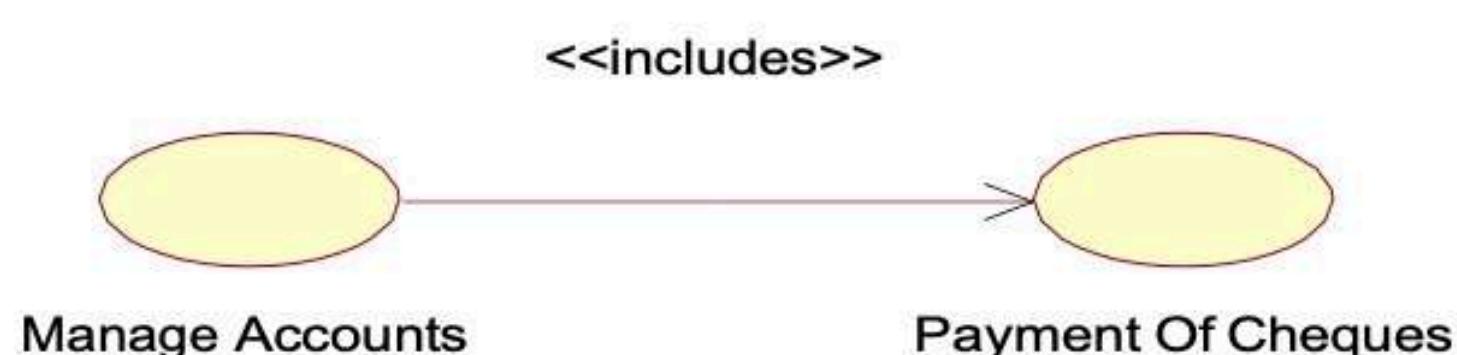


➤ **Name Of Use-Case:** Stop payments of cheques.

Description: Client can request to stop the payment of the cheque giving its details.

Preconditions:

- ¤ The client has already been logged in.



Activity Diagram for stop payments of cheques:

When the customer selects stop payments of cheques option in the home page, the system prompts for cheque details which are to be stopped. Customer

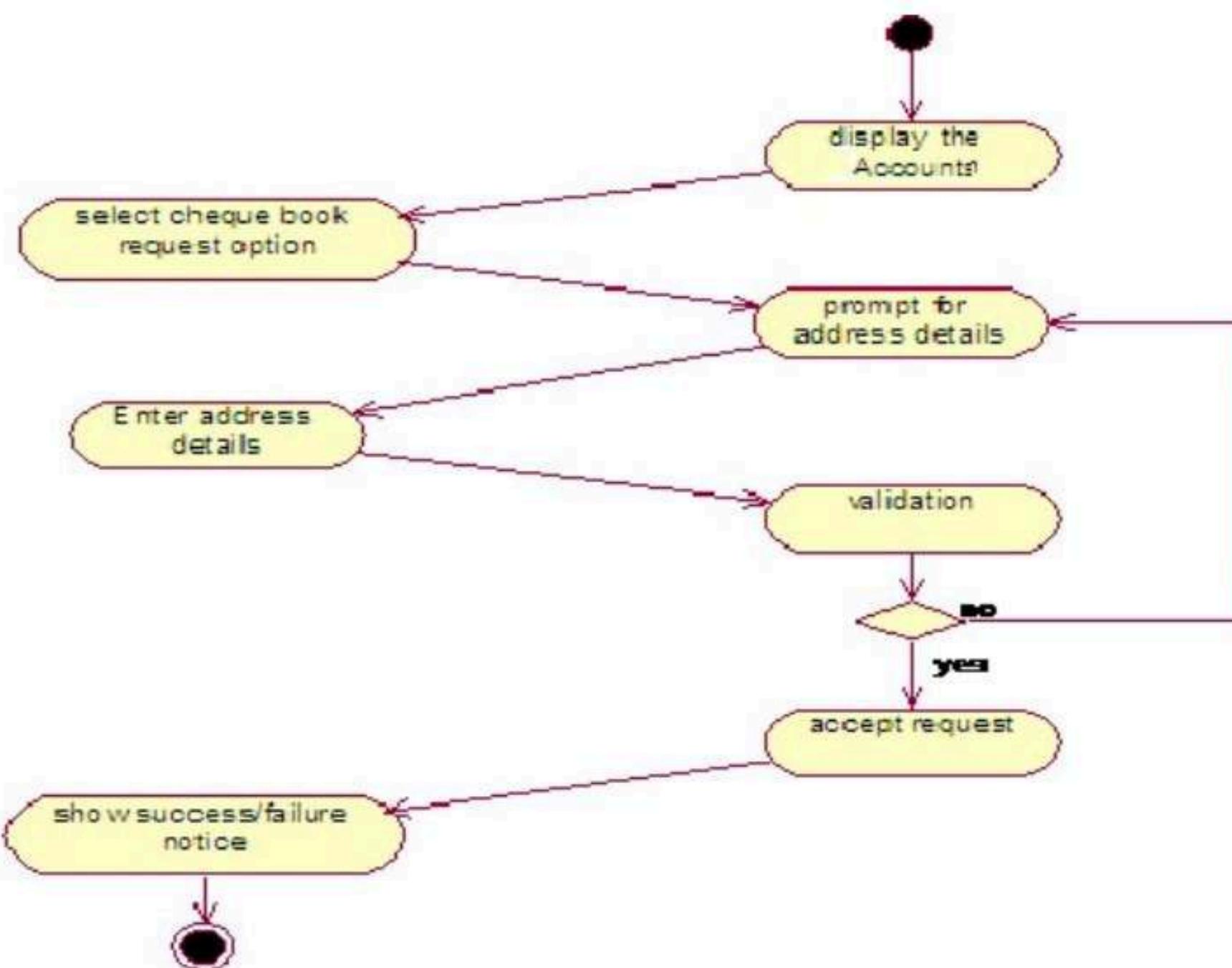


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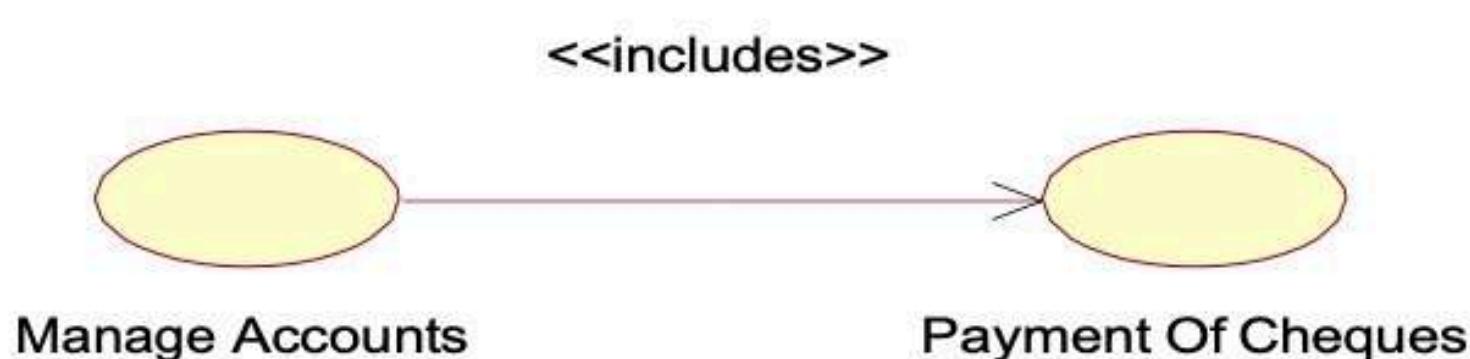


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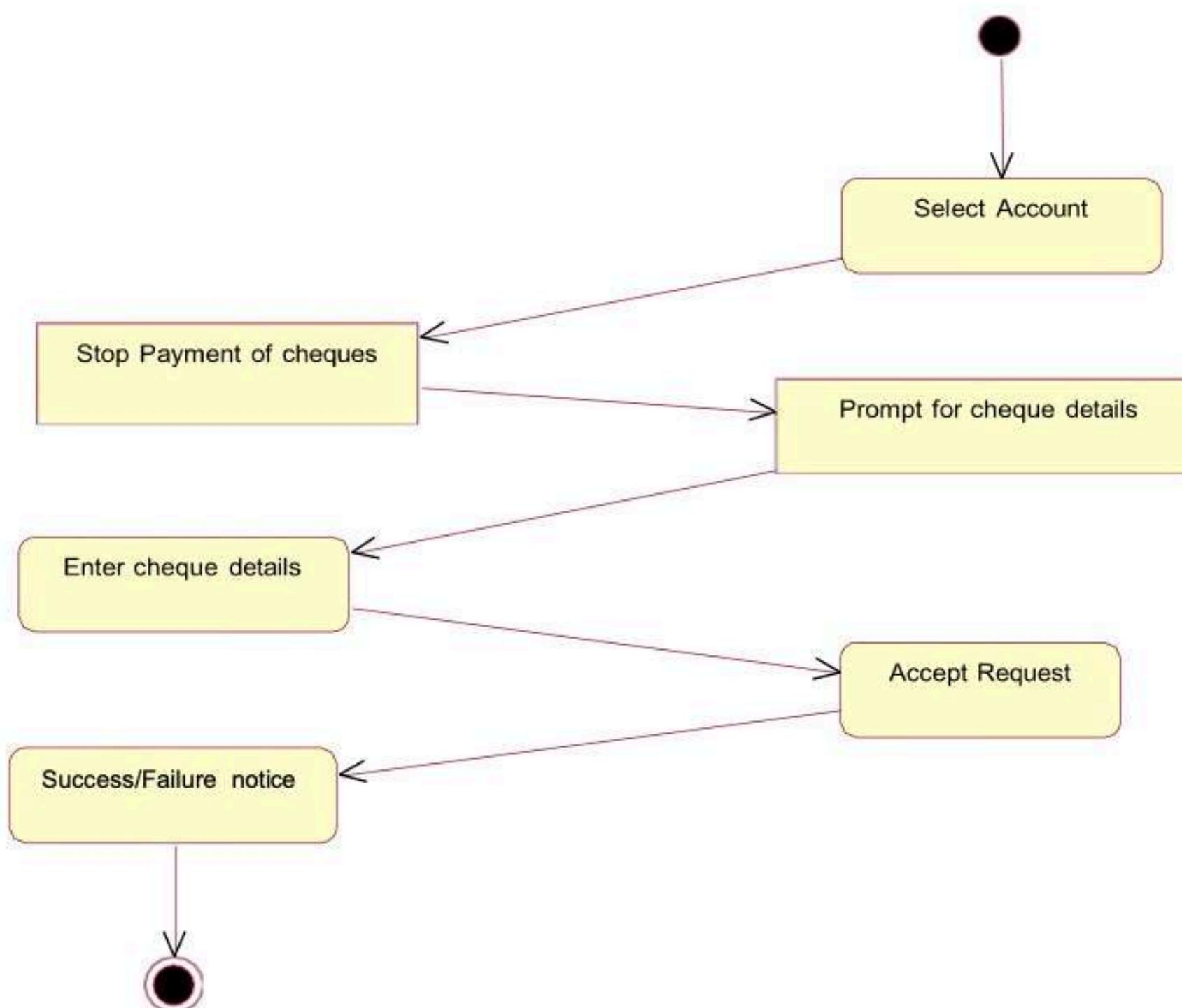


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enters the details such as cheque number, payee, date, etc. The system accepts the request & provides the customer success/failure notice.

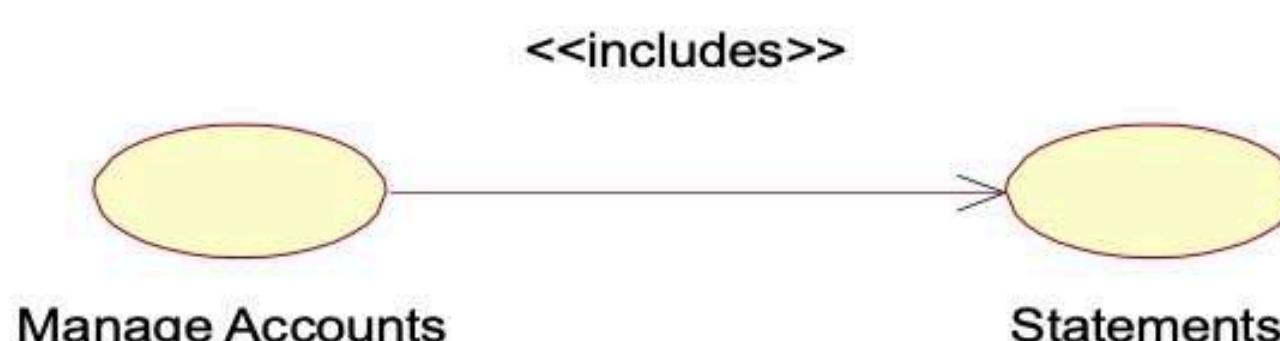


➤ **Name of Use-Case:** Statements.

Description: The client can request the mini statements i.e. monthly, annual or 'n' number of transactions.

Preconditions:

- ¤ The client has already been logged in.



Activity Diagram for Statements:

When the user requests for mini statements in the home page, system asks the type of statement needed by the customer. When the customer selects the type of statement (monthly/annual).

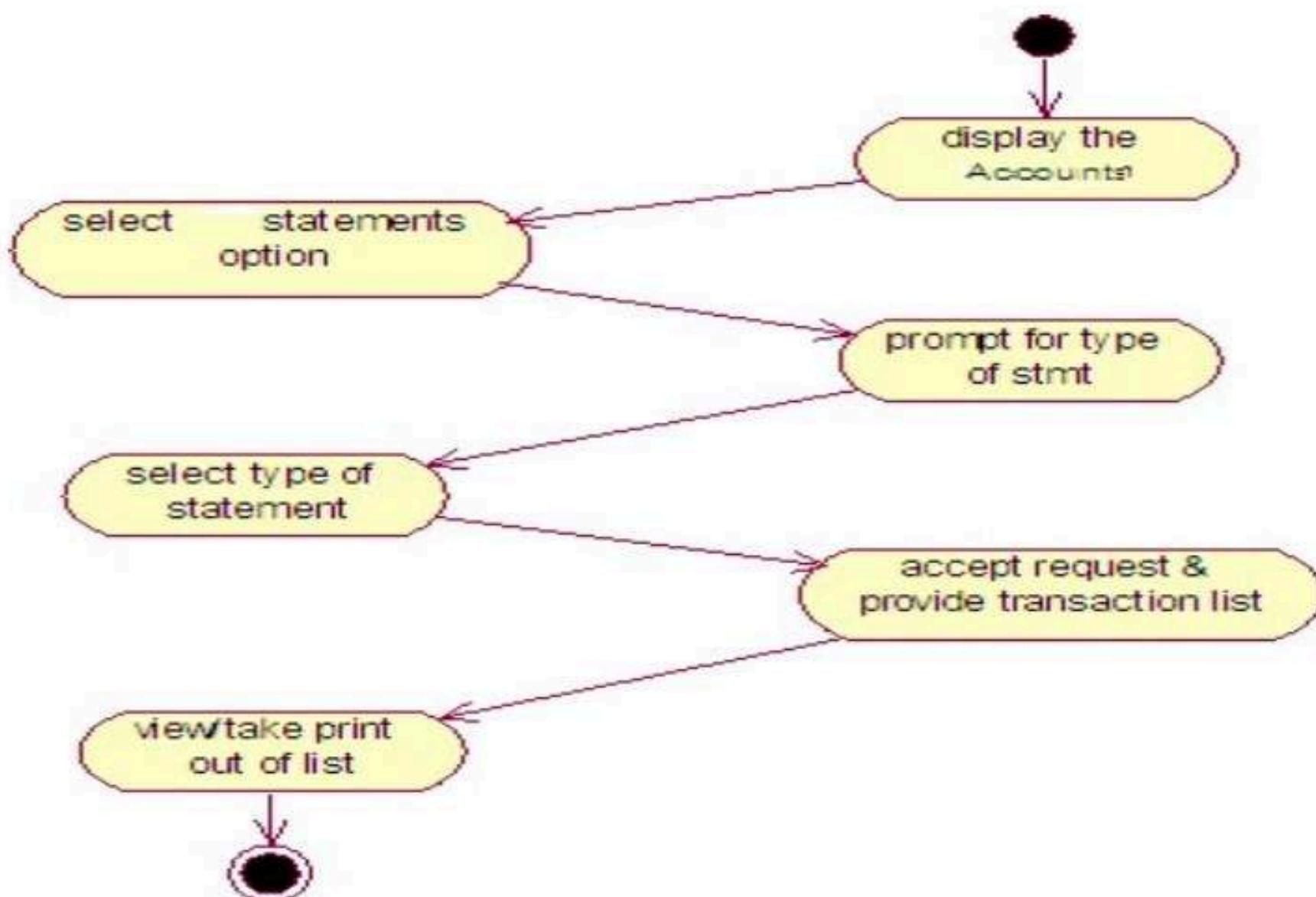


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The system displays the list of transactions on the screen. If the customer wants to take print outs he can take the print outs of the same.

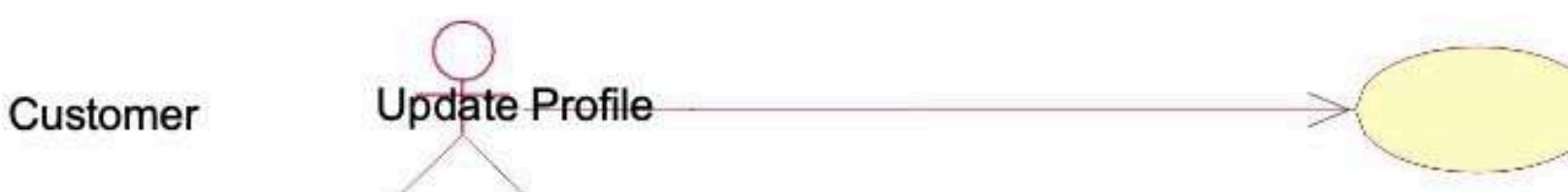


➤ **Name of Use-Case:** Update Profile.

Description: The client can update his profile, i.e. he can change his password, address, mobile number, e-mail id, etc.

Preconditions:

- ☒ The client has already been logged in.



Activity Diagram for update profile:

When the customer requests for update profile in the home page, the system shows present details to the customer. The customer changes the required fields he wishes to change &

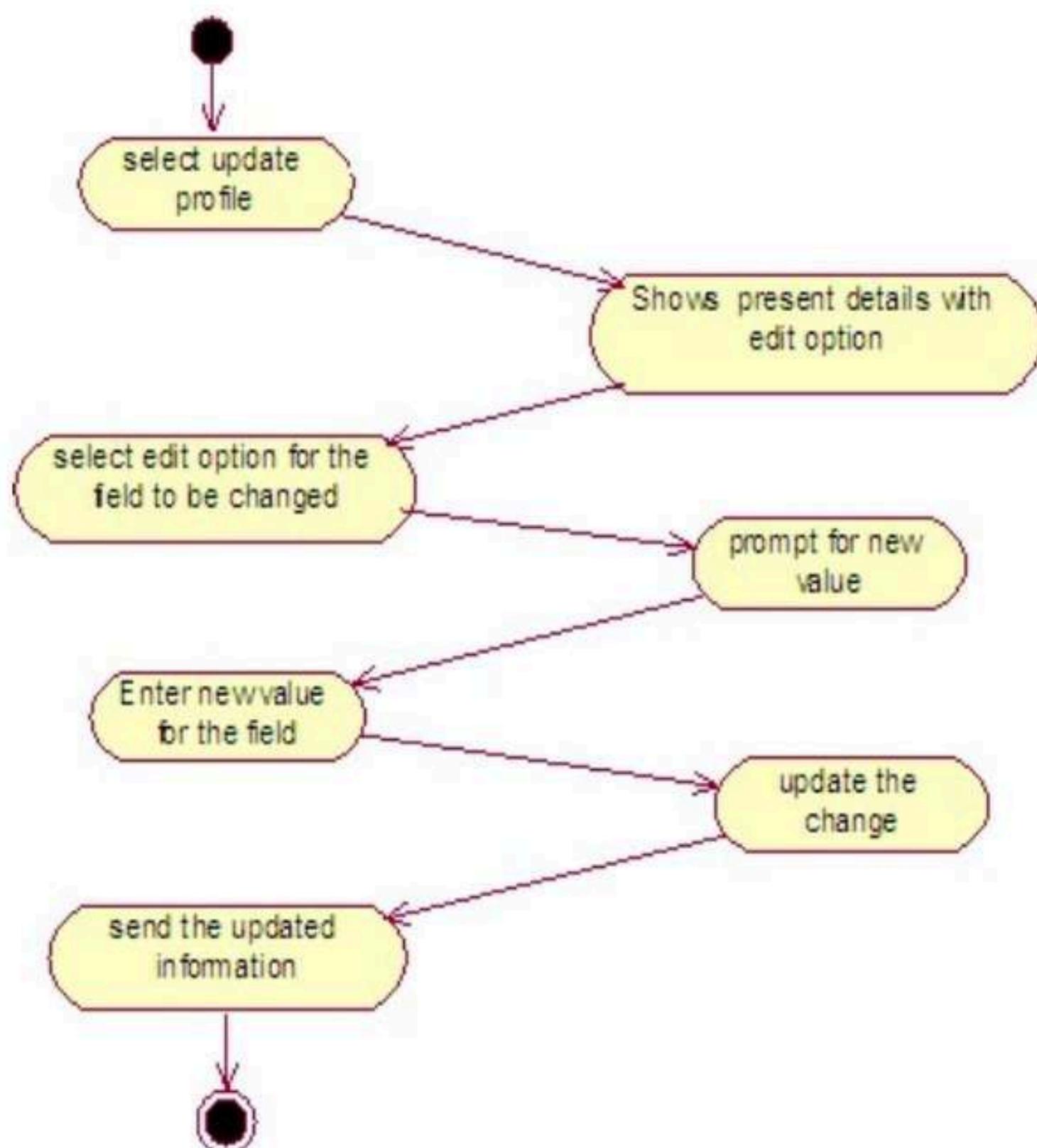


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submits. The system updates the information & a proper message is displayed to the customer about the updated information.

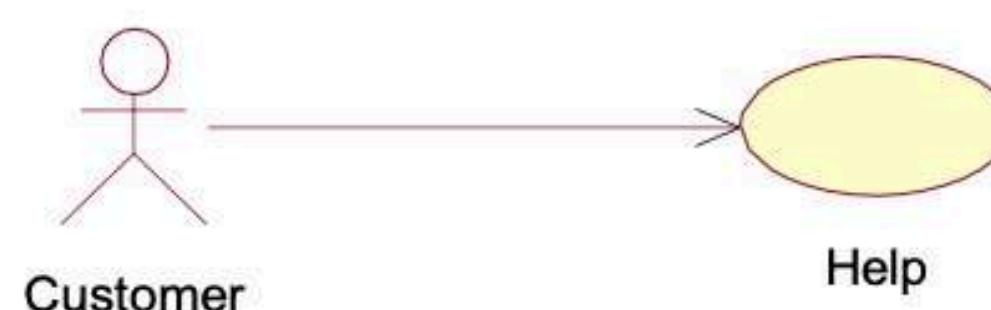


➤ **Name of Use-Case:** Help.

Description: The client can ask for any help regarding his queries.

Preconditions:

- ¤ The client has already been logged in.





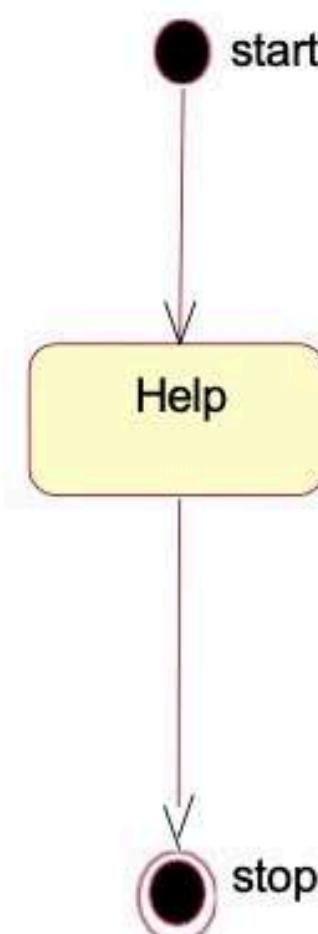
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Activity Diagram for Help Option:

When the customer requests for Help Option and asks his query.



- **Name of Use-Case:** Logout.

Description: The client can Logout.

Preconditions:

- ☒ The client has already been logged in.





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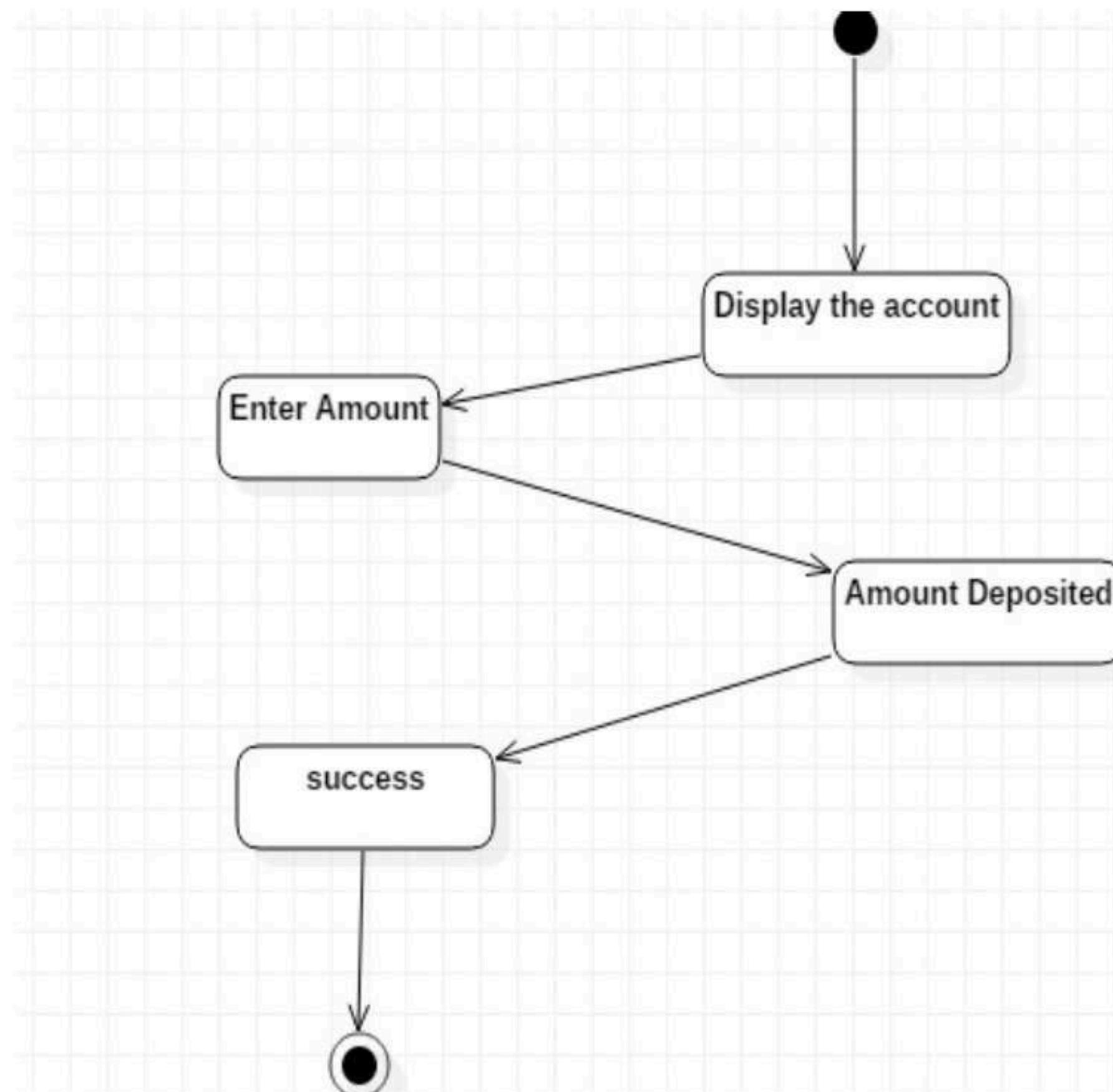
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Activity Diagram for Logout:

The customer can Logout.

Activity Diagram for Deposit:

When the user requests for Deposits in the home page, system asks the amount to deposited by the customer. The amount is added to the e-cash account. The system displays balance amount in his/her on the screen. If the customer wants to take print outs he can take the print outs of the same.



Activity Diagram for Withdraw:

When the user requests for Withdraw in the home page, system asks the amount to be withdrawn by the customer. The amount is deducted from the e-cash account. The system displays

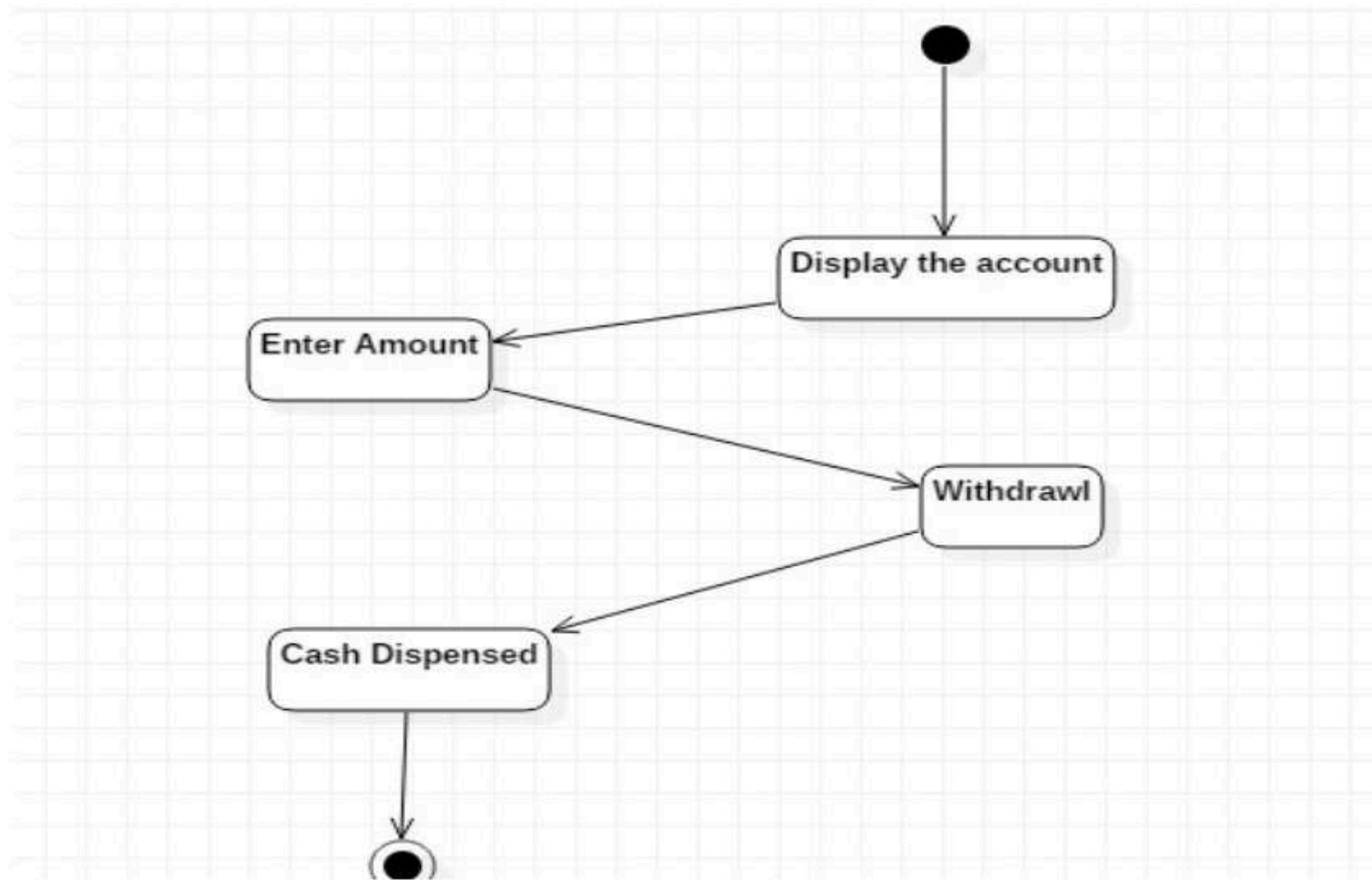


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balance amount in his/her on the screen. If the customer wants to take print outs he can take the print outs of the same.





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Electronic Cash Counter

[Home](#) [Admin Login](#) [Staff Login](#)

Admin Login

Username:

Password:

Log In



Electronic Cash Counter

[Home](#)

Admin

[Admin Home](#)

[Change password](#)

[Logout](#)

id	name	DOB	account type	mobile	email
●	Rashid feroz	1993-12-30	savings	9999955555	rashid@gmail.com
●	Deepak rajwar	1990-12-26	savings	9999955556	deepak@gmail.com
●	Shailesh kumar	1993-06-26	savings	9999955556	shailesh@gmail.com
●	Ravi nandan	0000-00-00	savings	9999955556	ravi@gmail.com
●	Isha dey	1990-12-26	savings	9999955556	isha@gmail.com
●	sunny kumar	2015-01-14	savings	9804381248	sunny@gmail.com
●	Pankaj kumar	1996-02-18	savings	8956231245	pankaj@gmail.com
●	Sharique hassan	1993-12-26	savings	8956231245	sarik@gmail.com
●	Mahesh	1989-06-16	savings	9885008881	kmahesh@gmail.com

EDIT CUSTOMER DETAILS



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Electronic Cash Counter

[Home](#)

[Admin](#)

[Admin Home](#)

[Change password](#)

[Logout](#)

Add Customer

Customer's name

Gender

M F

DOB

Nominee

Branch

KOLKATA

Account type

savings

Minimum amount

1000

Address:

Mobile

Email id

Password

[Add Customer](#)



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Electronic Cash Counter

[Home](#) [Admin Login](#) [Staff Login](#)

Customer Login

Username:

Password:

Log In



Electronic Cash Counter

[Home](#)

Accounts

- [Accounts summary](#)
- [Mini statement](#)
- [Account statement](#)

Fund Transfer

- [Add Beneficiary](#)
- [View added Beneficiary](#)
- [Deposit Money](#)
- [Withdraw Money](#)
- [Transfer Funds](#)

Requests

- [Issue ATM card/Cheque book](#)

Profile

- [Personal Details](#)
- [Change Password](#)
- [Logout](#)

Deposite Money

Account No:

IFSC:

Amount:

Deposit



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Electronic Cash Counter

Welcome Mahesh

Transfer Funds

Select Beneficiary:	Deepak rajwar
Enter Amount:	<input type="text"/>

Transfer

Home

Accounts

- Accounts summary
- Mini statement
- Account statement

Fund Transfer

- Add Beneficiary
- View added Beneficiary
- Deposit Money
- Withdraw Money
- Transfer Funds

Requests

- Issue ATM card/Cheque book

Profile

- Personal Details
- Change Password

Logout

Electronic Cash Counter

Withdraw Money

Account No:	42
IFSC:	B6A9E
Amount:	500

Withdraw

Home

Accounts

- Accounts summary
- Mini statement
- Account statement

Fund Transfer

- Add Beneficiary
- View added Beneficiary
- Deposit Money
- Withdraw Money
- Transfer Funds

Requests

- Issue ATM card/Cheque book

Profile

- Personal Details
- Change Password

Logout



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Name : Harshit Suthar | Class: Btech-CSE (3 sem) | Subject: SE Lab

Electronic Cash Counter

Welcome Mahesh

Issue:

Request

Requests	Status
ATM Card Status:	
Cheque Book Status:	PENDING

Home

Accounts

- Accounts summary
- Mini statement
- Account statement

Fund Transfer

- Add Beneficiary
- View added Beneficiary
- Deposit Money
- Withdraw Money
- Transfer Funds

Requests

- Issue ATM card/Cheque book

Profile

- Personal Details
- Change Password
- Logout

Electronic Cash Counter

Deposite Money

Account No:

IFSC:

Amount:

Deposit

Home

Accounts

- Accounts summary
- Mini statement
- Account statement

Fund Transfer

- Add Beneficiary
- View added Beneficiary
- Deposit Money
- Withdraw Money
- Transfer Funds

Requests

- Issue ATM card/Cheque book

Profile

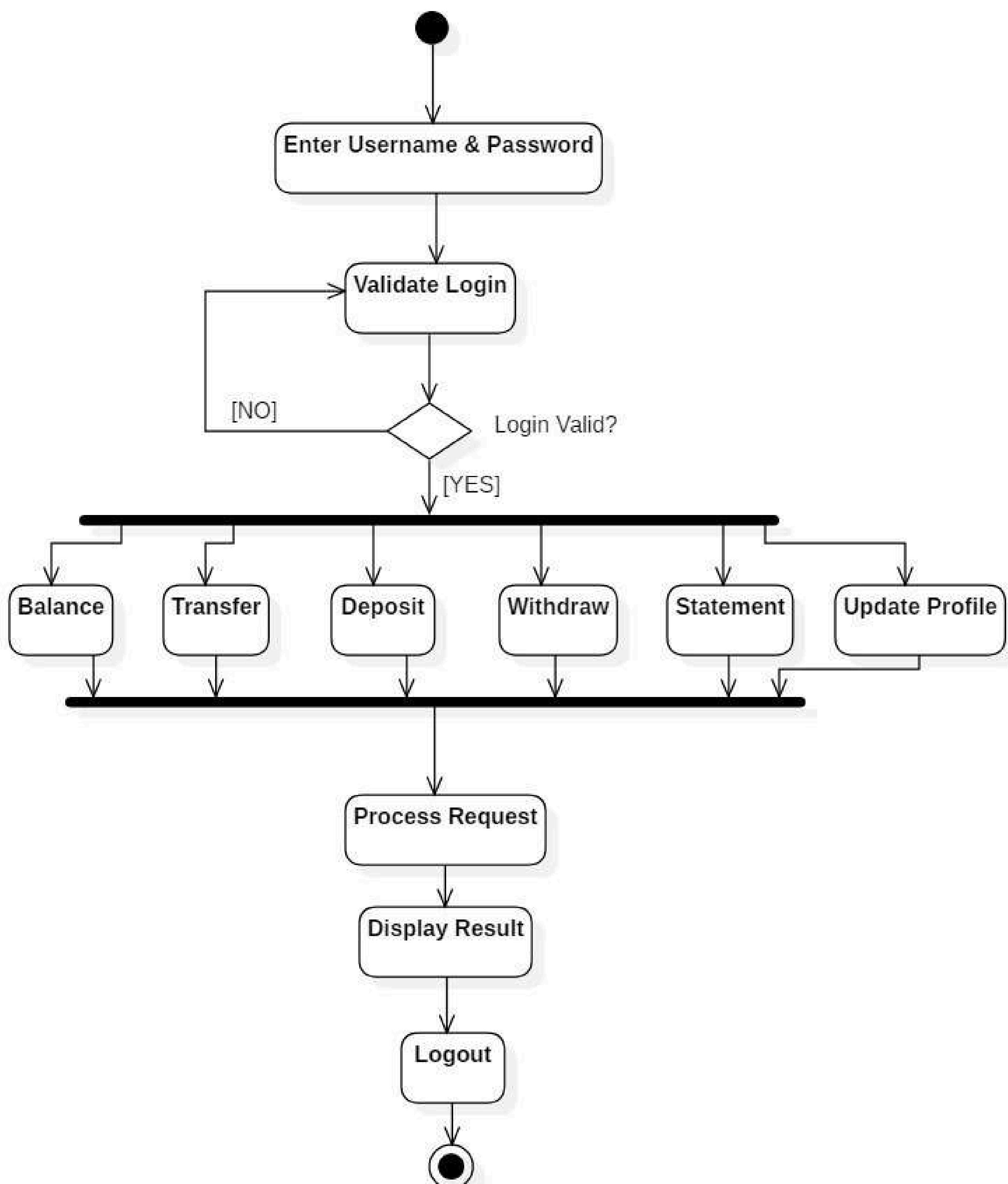
- Personal Details
- Change Password
- Logout



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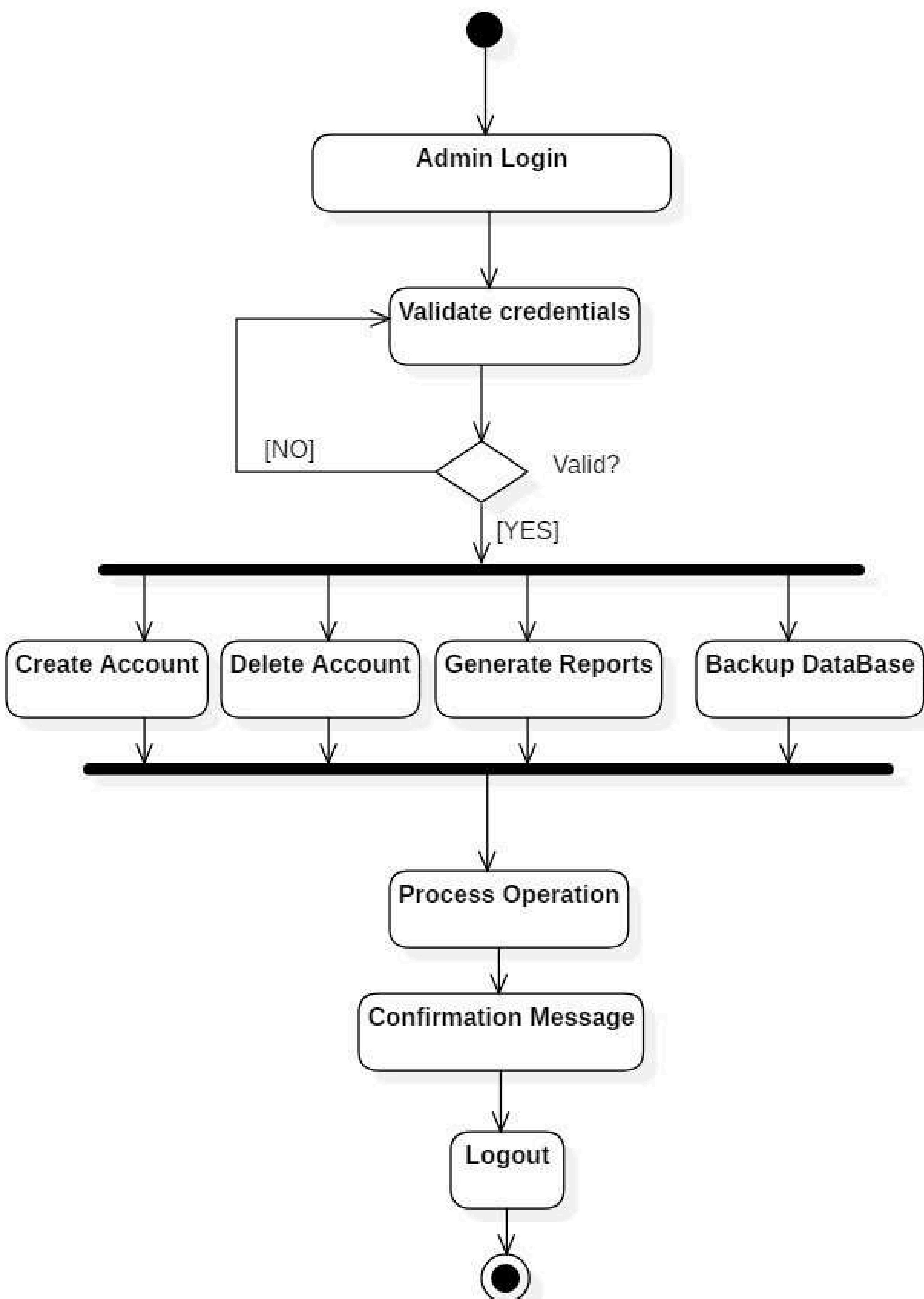




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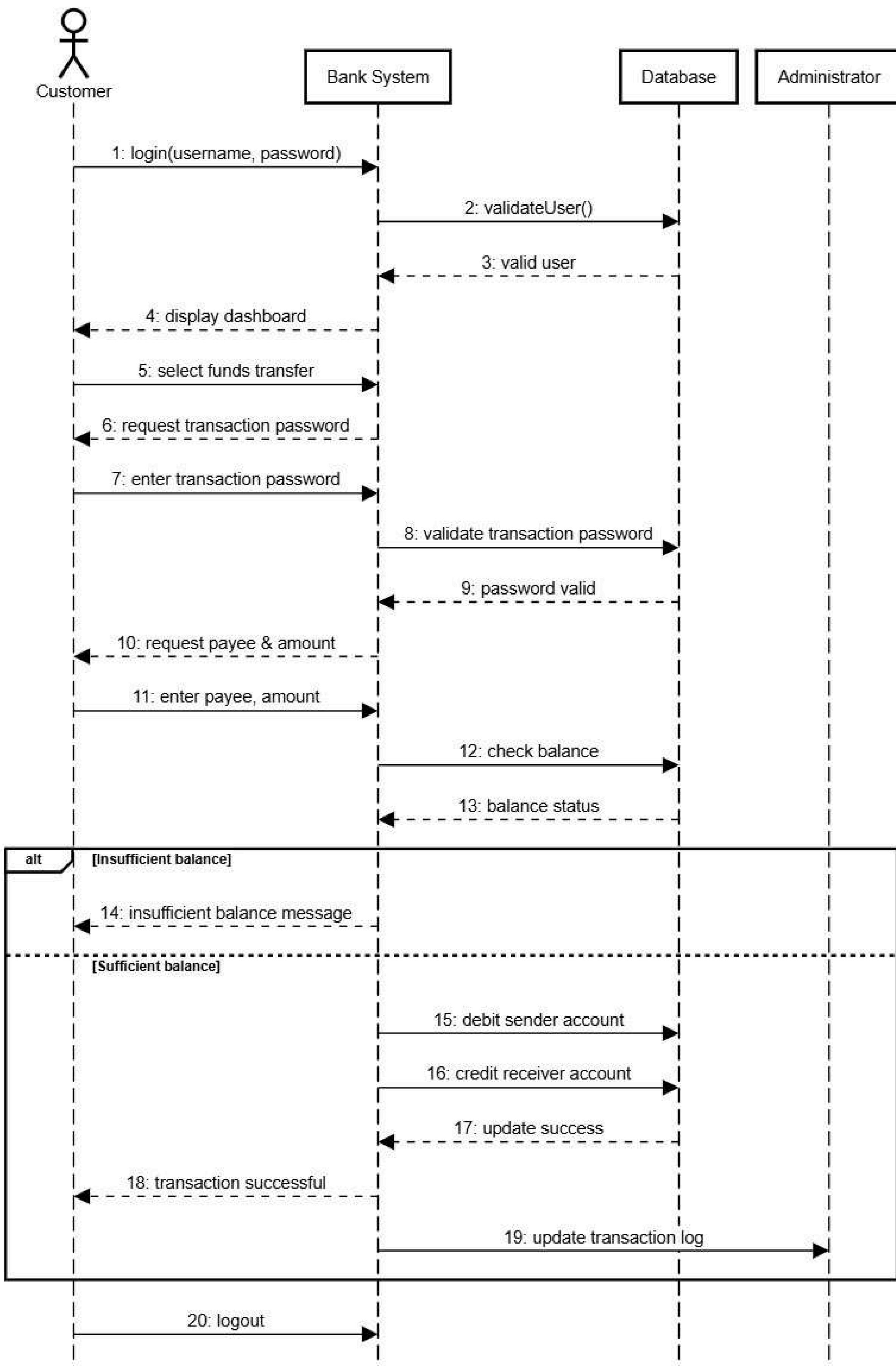


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Name : Harshit Suthar | Class: Btech-CSE (3 sem) | Subject: SE Lab

Electronic Cash Counter - Funds Transfer Sequence



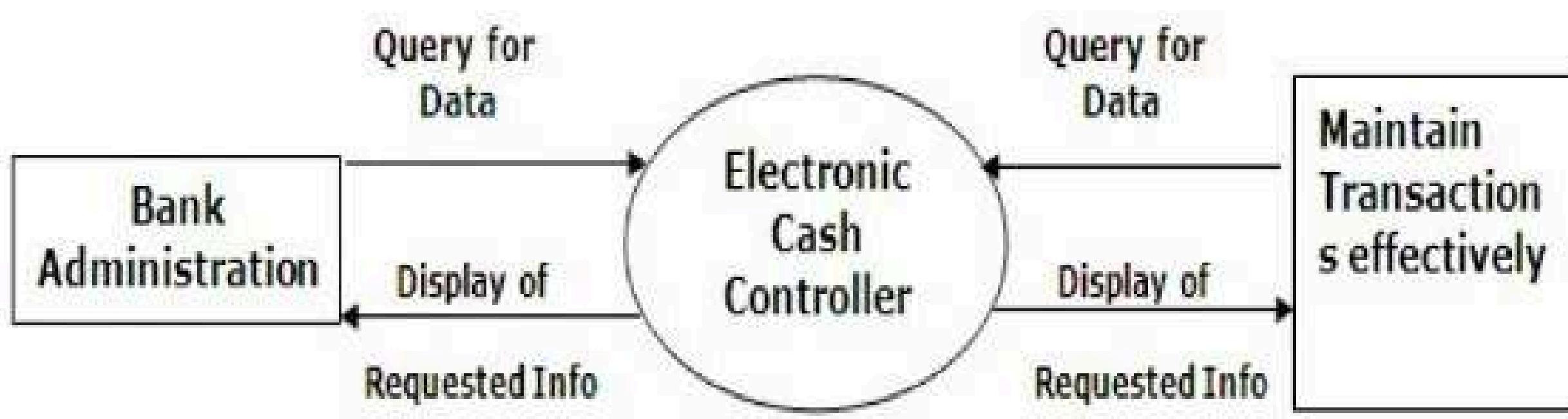


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Context Level DFD For Electronic Cash Controller



Architecture

