

Project Title: Financial & Management Approval System

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Id: 121-35-265

Batch: 7th

This project is partial

Fulfillment of the requirements for the degree of

Bachelor in Software Engineering

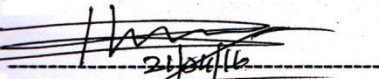
Daffodil International University

Dhaka, Bangladesh

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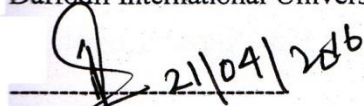
This Report titled “ Financial & Management Approval System ”, submitted by Md. Al Mamun, ID No: 121-35-265 to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Software Engineering and approved as to its style and contents.

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I hereby declare that, this project has been done by me under the supervision of **Ms. Rubaida Easmin, Lecturer, Department of SWE** at Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree.

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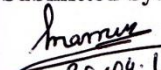
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Executive Summary

The main concern of this project is to provide a solution for system user. Where system user can make requisition with much more ease. In this solution registered user will be able to create request & requisition and forward those requisition to management level regarding company business policy. When System user send any request/requisition generally the approval status remain in pending. After that whatever decision system request/requisition receiver will make user will be notified through approval status. If requisition is approved by the receiver then status will changed from pending to approve and if receiver deny the requisition then status will changed from pending to deny. In this solution both admin/user will be able to generate transaction report using requisition id.

ACKNOWLEDGEMENT

I express my heartiest thanks and gratefulness to almighty Allah for his divine blessing who makes me possible to complete this project successfully.

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I also like to express my heartiest gratitude to Dr. Touhid Bhuiyan, Head, Department of Software Engineering, for his kind help to finish my project and also to all the faculty member and staff of Software Engineering Department of Daffodil International University.

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Finally I must acknowledge with due respect the constant supportive motivation and patients of my parents.

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CHAPTER 1

Introduction

1.1 Purpose

This document specifies the Project Report for the financial and management approval system (FAMAS). It describes the scope of the system, both functional and non-functional requirements for the software, design constraints and system interfaces.

1.2 Scope

The Financial Management and approval system address the whole user of a company. It provides a framework for managing request and requisition of users. Management can make decision on the basis of customer requisition. This SRS only describes only required functionality of financial and management approval system. This document does not divide the (FAMAS) into subsystems, it describes only requirements for the whole-system functionality which is defined in the use case diagram.

1.3 Intended audience & Reading suggestion

This document description project scope for whole company stack holder. The reader types can be:

System Admin: In this solution system admin will be able to create user and provide rules to the users.

System User: This system will provide user to create requisition and forward requisition to the management level. User will be able to get notify following requisition status.

CHAPTER: 2

PRE ANALYSIS

2.1 scenario

Scenario is a process used during requirement analysis to describe the use of proposed system. Scenario is a story about proposed system which describes an overview of the whole system.

The scenario of proposed system is given below:

The main concern of this project is to build a solution for the stock holder of a company. Therefore they can do their works with much more ease. In this solution system admin will be able to give credentials to the user. Any user who have privilege to access the system s/he will be able to request their needs to desired user (management level employee). User can be able to make requisition and forward their requisition to desired user. On the basis of requisition operational manager will be able to approve or deny the requisition. If manager will approves the requisition and give him the clearance then user will be notified through message status. On the basis of the clearance sheet management provide user needs. Using this solution whatever thing user need they will be able to make requisition to the management level . This financial & approval system that is going to be developed, targeted to minimize the paper works and minimize the requisition process time.

There are two types of user in this system:

1. Admin
 2. User
- The following table shows the brief description about different users with their permission based on different operations.

Admin	The person who has the overall responsibility Of this system. Admin can create user and assign designation under specific department and provide credential to the user to get access into system.
User	The person who is already register by admin. The user who has logged into the system and has a right to perform some operation. The system knows the identity of the user and permission that are granted to this user. User can perform specific task on the basis of user privileges area.

CHAPTER 3

SYSTEM ANALYSIS

3.1 Requirement analysis

There requirement analysis is divided into several parts all of them listed below.

3.1.1 Requirement Elicitation

Requirements elicitation is the practice of collecting the requirements of a system from users, customers and other stakeholder. The practice is also sometimes referred to as "requirement gathering". The term elicitation is used in books and research to raise the fact that good requirements can not just be collected from the customer, as would be indicated by the name requirements gathering. Requirements elicitation is non-trivial because you can never be sure you get all requirements from the user and customer by just asking them what the system should do OR NOT do (for Safety and Reliability). Requirements elicitation practices include interviews, questionnaires, user observation, workshops, brainstorming, use cases, role playing and prototyping. Some common techniques are used to gather proper requirements. Techniques that are used to collect requirements are

Interviewing: As this project totally depends on the consumers who prefers virtual shopping. So we tried to speak with them took interview and told them about the idea of our price comparison engine to see their response and as well as to gather requirement for the project. We also studied several survey those based on virtual shoppers interview and analyzed their shopping habit.

Studying similar project: Most of the requirements are collected by studying similar projects. We studied several project very deeply and gathered requirement from there. Some of price comparison engines that we have studied are Pricegrabber.com, Pricezilla.com, Nexttag.com and shopping.com.

Brainstorming: Some of the requirement is elicited by brainstorming. We discussed with different developers and people from different domain. That helps us to generate new, useful ideas and promoting creative thinking for finding the solution to a specific issue.

3.1.2 Raw Requirement

- System will be a web based system
- There will be an admin
- There will have different user
- There will be an login option
- Admin can create/edit/delete user account
- Admin can assign rules into user
- Admin will be able to create/edit/delete company branch
- Admin will be able to create/edit/delete sister concern
- Admin will be able to add/edit/delete department
- Admin will be able to add/edit/delete requisition tile
- Admin will be able to generate report using requisition details
- Admin will be able to change password
- User also will be able to change password
- User will be able to see Profile details
- User will be able to create/delete new request
- User will be able to forward created request
- User will be able to see receiving request and make request into requisition
- User will be able to create/delete requisition
- User will be able to view pending requisition details
- User will be able to view requisition status
- There will be two different requisition status which is pending and approve
- User will be able to print approved requisition
- User will be able to see receiving requisition list
- User will be able to forward receiving requisition
- User will be able to approve or deny receiving requisition
- User will be able to see approved requisition list
- Use will be able to make add refund amount on approved requisition
- User will be able to generate own requisition details

3.1.3 Software Requirement Specification:

The SRS describes what my system will do and how it will be expected to perform .Here I try to capture all the system behavior regarding client required functionality.

SRS ID	SRS Name	SRS-Description	SRS Type	Priority
FR-001	Web based Financial & management approval system	I will be a web based financial & management approval system where user can make requisition to their higher management	FR	High
FR-002	Create user	Admin will be able to create user following user role id	FR	High
FR-003	Provide login option	User will be able to login using username & password	FR	High
FR-004	Company branch	Admin will be able to to add/edit or delete company branch	FR	Medium
FR-005	Sister concern	Admin will be able to add/edit/delete sister concern	FR	Medium
FR-006	Department option	Admin will be able to add/edit/delete department	FR	High
FR-007	Requisition head option	Admin will be able to add/edit/delete requisition head option	FR	High
FR-008	Change password	Both admin & user will be able to change password	FR	Medium
FR-009	Request	User will be able to create/delete and forward new request	FR	medium
FR-010	Requisition	User will be able to create/delete and forwarding requisition	FR	High
FR-011	Requisition status	There will be two type of requisition status which is pending and approved. User will be able to print approved requisition list for transaction	FR	High
FR-012	Receive requisition	User will be able to receive requisition and make forward or deny or approve those requisition	FR	High

SRS ID	SRS Name	SRS-Description	SRS Type	Priority
FR-013	Approved requisition	User will be able to view and add refund amount on approved requisition	FR	Medium
FR-014	Report Generate	Both admin and user will be able to generate report. Admin will be able to generate anyone requisition details using requisition id. On the other hand user will be able to generate own requisition details using date limit	FR	Medium
FR-015	Logout	There will be an logout option. Where both admin and user will be able to get logout into the system	FR	High

3.1.4: System Use Case Scenario

The purpose of use case diagram is to capture the dynamic aspect of a system.

Use case diagrams are used to gather the requirements of a system including internal and external influences. These requirements are mostly design requirements. So when a system is analyzed to gather its functionalities use cases are prepared and actors are identified.

Now when the initial task is complete use case diagrams are modeled to present the outside view.

So in brief, the purposes of use case diagrams can be as follows:

- Used to gather requirements of a system.
- Identify external and internal factors influencing the system.
- Show the interacting among the requirements are actors.

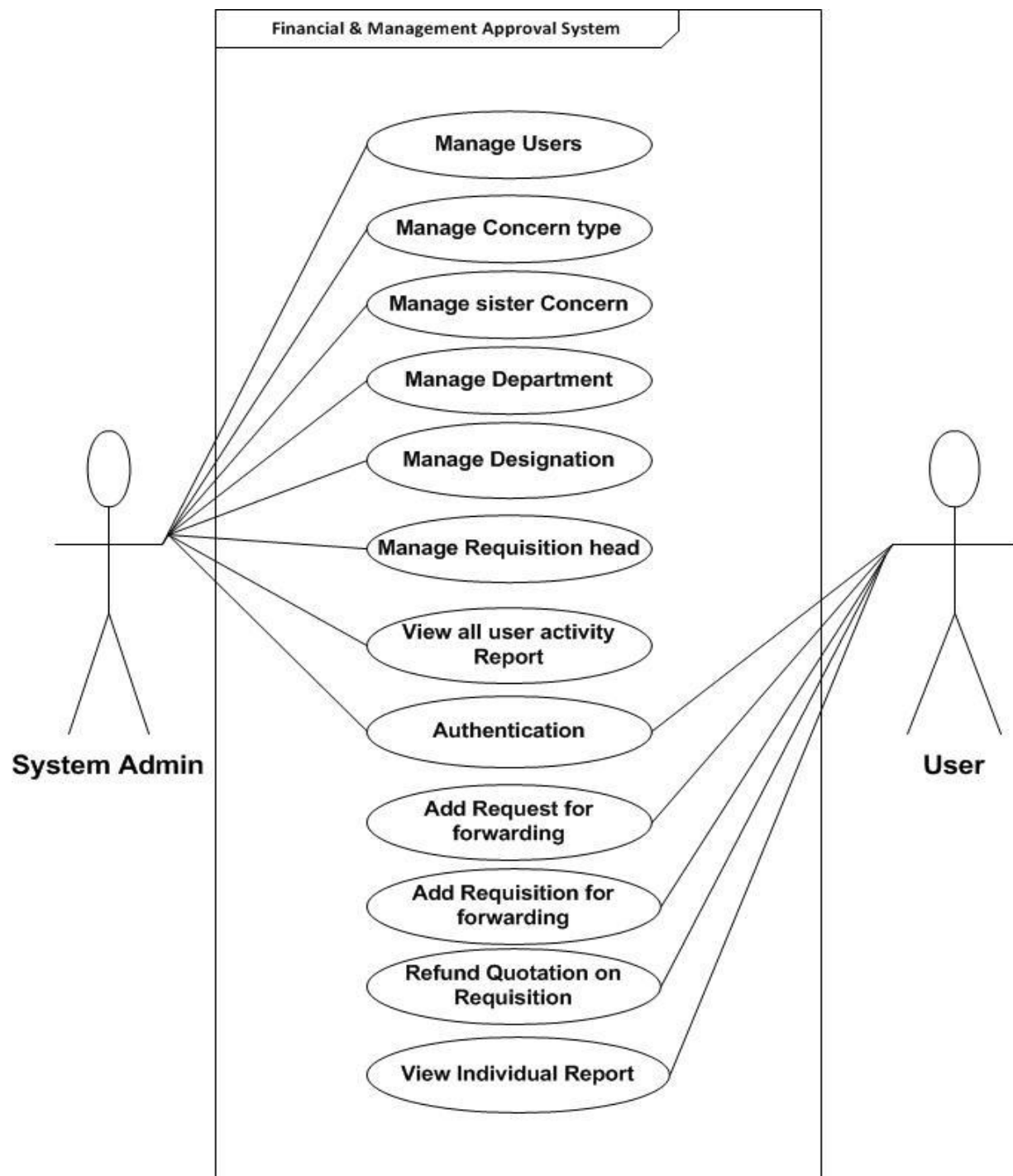


Figure 3.1.4: Use case Scenario for financial & management approval system

3.1.5: Admin Use Case Scenario

Admin is the most privileged role of this system. The role of the Admin is to creating new user accounts and assigning them into different roles specified. He/she can remove any user account he/she wants and can change the role of the user.

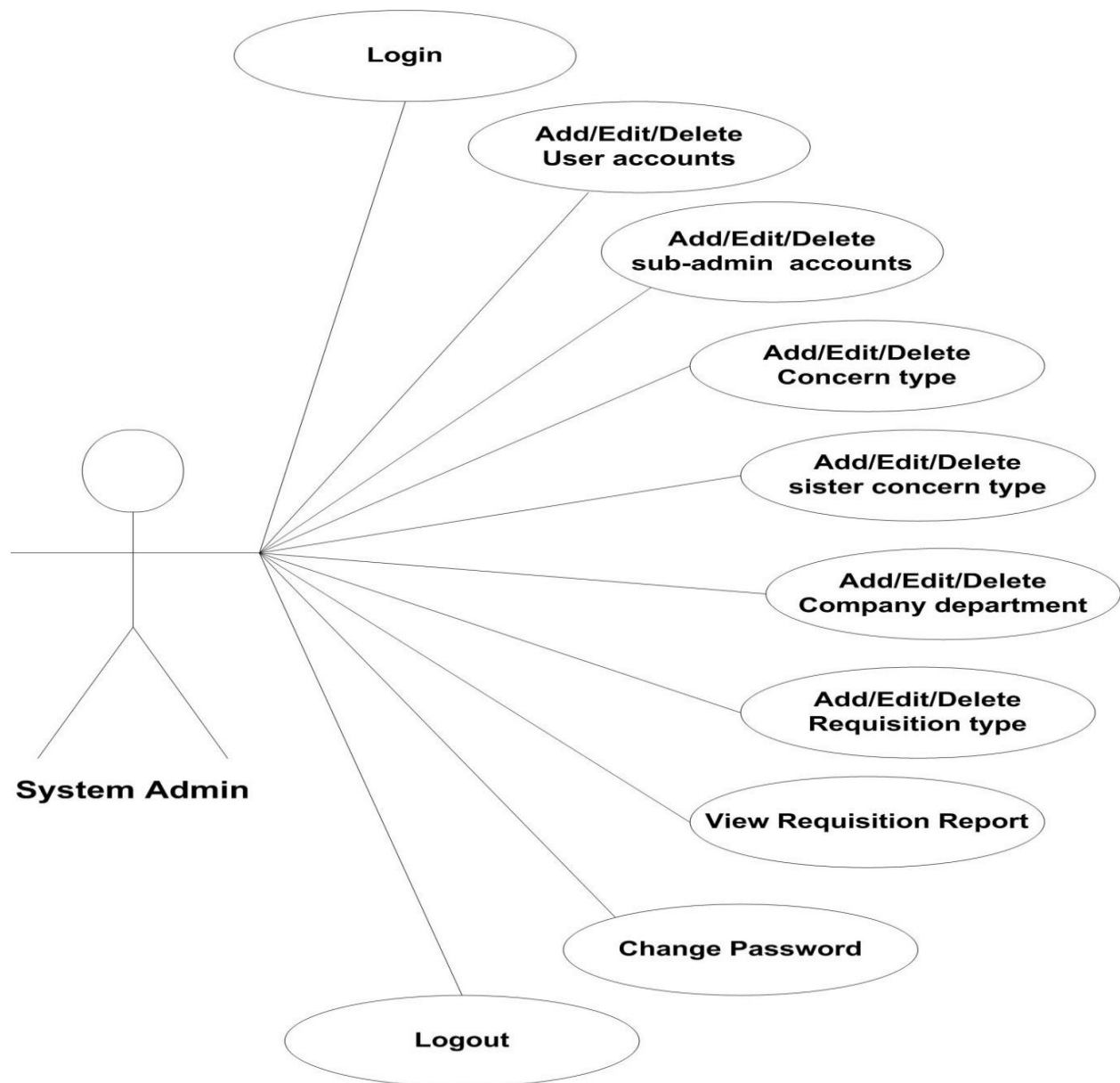


Figure 3.1.5: Use case Scenario (Admin part)

3.1.6: Initial Step-By-Step Description

Here is the step by step description of the activities of an admin:

- Admin is a registered user of this system and that is why he/she has to be logged into the system through the authentication system.
- After logging in, he/she will find the list of the user accounts currently registered into the system.
- There will be two actions for every user account listed there. One is Edit and the other one is Delete . And there will be one link at the top of the list which will correspond to Create New User Account.
- If he/she selects the Create New User Account option, he/she will be redirected to a page where he/she will be asked to provide the user details and the role of the user to create a new account.
- If he/she go to the Edit option of a specific user he/she will be redirected to a page which will show the current info of that user account and the role which will be editable.
- If he/she wants to delete a user account, he/she has to just click the delete link provided with that specific user and he/she will be prompted with a confirmation dialog. If he/she confirms, the account will be deleted.
- Admin will be able to add/edit/delete new designation
- Admin will be able to add/edit/delete new concern type
- Admin will be able to add/edit/delete new sister concern type
- Admin will be able to add/edit/delete new department
- Admin will be able to create requisition report
- Admin will be able to change password
- Admin will be able to get logout

3.1.7 User Use Case Scenario

In the FAMAS, the role of user is not précised. User will have to perform lots of aspects according to task type.

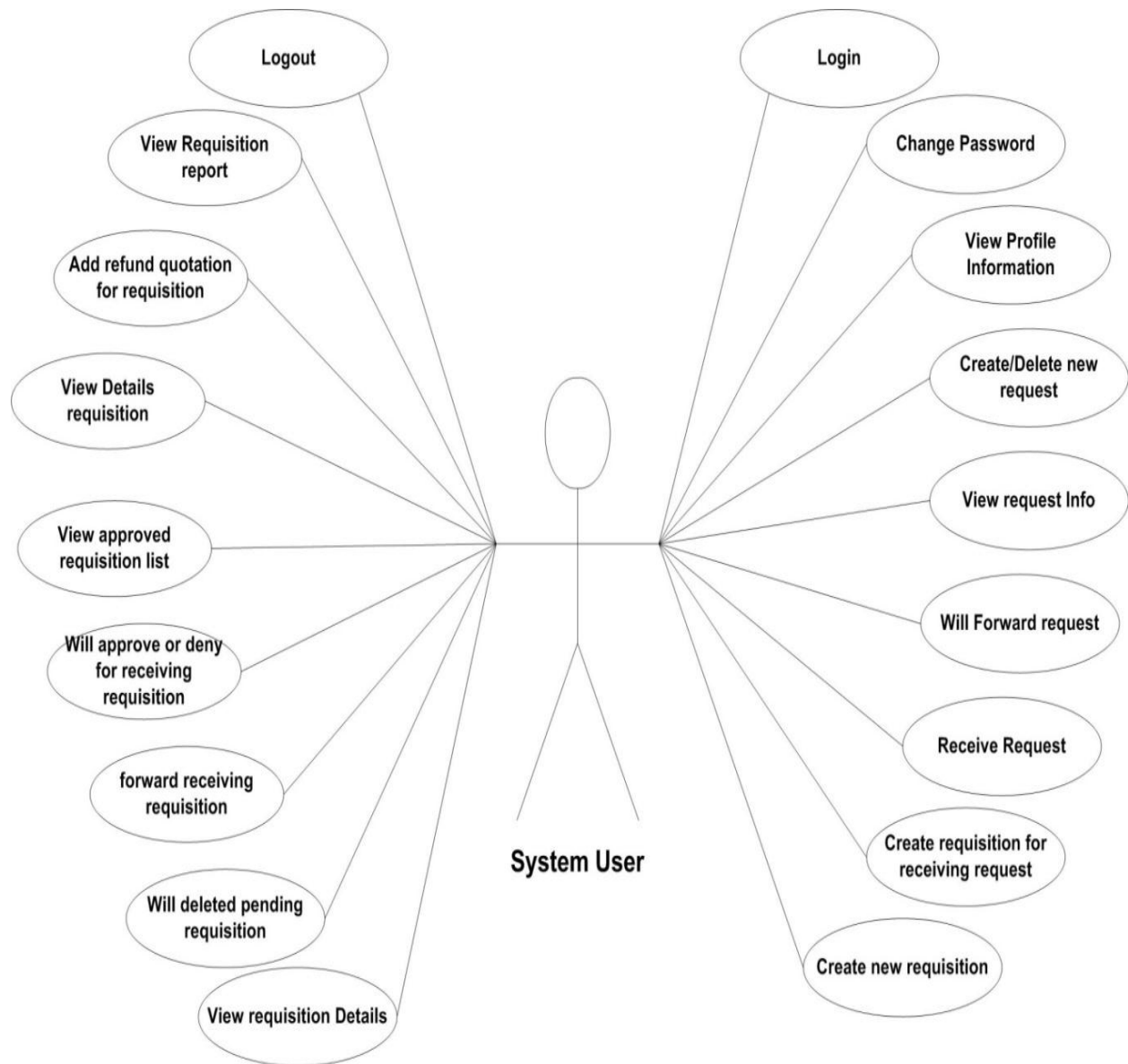


Figure 3.1.7: Use case Scenario (User part)

3.1.8 Initial Step-By-Step Description

- User must be registered by the Admin in this system
- User will have to log into the system using his/her credentials provided by the system
- After login into system user will be able to see details information
- If user want to create some request to management-level user then they can be able to do it using forwarding key.
- User will be able to delete his/her request which is listed into new request section.
- User will be able to view receiving request details and will be able to create requisition
- User will be able to create new requisition and sent requisition to the management level user.
- User will be able to see the receiving requisition and make action on it.
- User will be able to approve or deny the requested requisition
- User will be able to see the approved requisition list and if needed to add refund amount user will be able to do that also.
- User also will be able to generate his/her requisition report
- User will be able to change system password
- User will be able to get logout into the system

3.2 Software Development Plan (SDP)

3.2.1 Project Overview

The project named as “Financial & management approval system”. In this system user will be able to create requisition and forward requisition to management level. Those users who have privileges to receive requisition. they will be able to approve or deny the requisition .If the requisition will be approved by the receiver then sender will be notified. Then user will be able to make a print copy of approved requisition to get their demands. After that admin will be able to add refund amount on the basis of user information. Admin and user both will be able to generate report. Admin will be able to generate report using requisition id and user details on the other hand user will be able to view report using date limit.

3.2.2 Proposed system and its benefits

- This software is actually provide some special set of applications which can be used in concert to help facilitate a company’s process for managing their purchasing and selling activities. An integrated requisition system helps improve communication amount whole stack holder between the various groups within a company who are tasked with handling either a full requisition and purchasing process, or parts of that process. Requisition software has multiple uses, but is most commonly integrated as part of a maintenance repair & operations (MRO) system.
- Requisition software allows purchasing or selling operational managers to quickly communicate with other stack holder in a relatively short period of time. Employee will be able to sending out requests or requisition for desired needs. Communicating with the latest requirements from a materials plan to all of the suppliers and requesting fulfillment confirmation. A well-integrated and maintained requisition system allows companies to achieve great efficiencies and cost savings by controlling the way purchasing is handled, by allowing easy access to key product providers and by monitoring interactions with those providers to assure best pricing is achieved for all purchases.

3.2.3 Definitions, Acronyms and Abbreviations

The following table explains the terms and abbreviations used in the document.

Term/Abbreviation	Explanation
SRS	Software Requirement Specification
FAMAS	Financial and Management Approval System

3.2.4 Glossary

The glossary defines the key terms and concepts mentioned and used in this document.

Word	Explanation
Financial & management approval system	The subject of this document. Represents the whole solution as aggregate of all subsystems and interfaces.
Host System	The main part of the system that resides on the server and where the business logic runs. Maintains physical connections to all external system. (data storage system, version control and change management systems)
Client System	The part of the system that runs on the user PC. Provide GUI and required system functionality. Maintains physical connection to the host system .
Data Storage System	An external Data Base Management System, where the FAMAS stores all its data and that enables all data storage-related functionality of the FAMAS.

3.2.5 Project Schedule (Detail breakdown in a .doc table)

This Project schedule describe what has already been completed, what and the sequence in which things need to be finished.

3.3.5.1 Project Scope

Table No 1: Project Scope

Primary Phase				
SL	Job Description	Start date	End Date	Total Days
1	Idea Searching	1-10-2015	1-10-2015	1 Days
2	Domain Knowledge Gathering	2-10-2015	4-10-2015	2 Days
3	Brainstorming	5-10-2015	5-10-2015	1 Days
4	Feasibility Study	6-10-2015	7-10-2015	1 Days
			Total Days	5 Days

3.3.5.2 Project Proposal

Table No : 2 Idea Proposal

Advanced Phase				
SL	Job Description	Start date	End Date	Total Days
1	Idea Searching with Supervisor	7-10-2015	10-10-2015	3 days
2	Advanced Domain Knowledge Gathering	11-10-2015	12-10-2015	1 days
3	Advanced Resource Gathering from Supervisor and from online open resources	13-10-2015	13-10-2015	1 days
4	Advanced Brainstorming with Supervisor	14-10-2015	14-10-2015	1 days
5	Advanced Feasibility Checking with Supervisor	15-10-2015	17-10-2015	2 days
6	SDLC Model Selection for System Development	18-10-2015	21-10-2015	3 days
			Total Days	10 days

3.3.5.3 Requirement Collection

Table No: 3 Requirement Collections

SL	Job Description	Start date	End Date	Total Days
1	Develop System Scenario	01-11-2015	05-11-2015	5 days
2	Requirement Identify from System Scenario	06-11-2015	09-11-2015	4 days
3	Row Requirement Collection from Identified Requirement	10-11-2015	16-11-2015	6 days
4	Functional Requirement Collection	17-11-2015	20-11-2015	3 days
5	Software requirement Specification(SRS)	21-11-2015	23-11-2015	3 days
6	Manage All Requirement and Arrange all information	17-11-2015	22-11-2015	5 days
7	Non Functional Requirement Specification	23-11-2015	27-11-2015	4 days
			Total Days	30 days

3.3.5.4. System Design

Table No: 4 System Design

Physical System Design				
SL	Job Description	Start date	End Date	Total Days
1	Graphical User Interface(GUI)	25-11-2015	3-12-2015	8 days
2	System Prototype Designing	4-11-2015	16-12-2015	12 days
			Total Days	20 days

3.3.5.5 System Implementation

Table No: 5 System Implementation

1	Entity Relationship Diagram(ERD)	17-12-2015	19-12-2015	2 days
2	Use Case Diagram Design	20-12-2015	22-12-2015	2 days
3	Detail Flow Diagram DFD-Level:0 Designing	23-12-2015	25-12-2015	2 days
4	Class Diagram	26--12-2015	26-12-2015	1 days
5	Activity Diagram	27-12-2015	30-12-2015	3 days
			Total Days	10 days

3.3.5.6. Technology Used

- Language: Object Oriented Programming PHP
- Framework: Codeigniter (MVC)
- Bootstrap Web Designing Framework
- HTML -5, CSS -3 , jquery
- Database : Xampp server 1.7.3

3.3.5.6. Tools Used

- Microsoft Visio 2010
- Microsoft Office
- Draw.io

3.3.5.7. Project Schedule Diagram

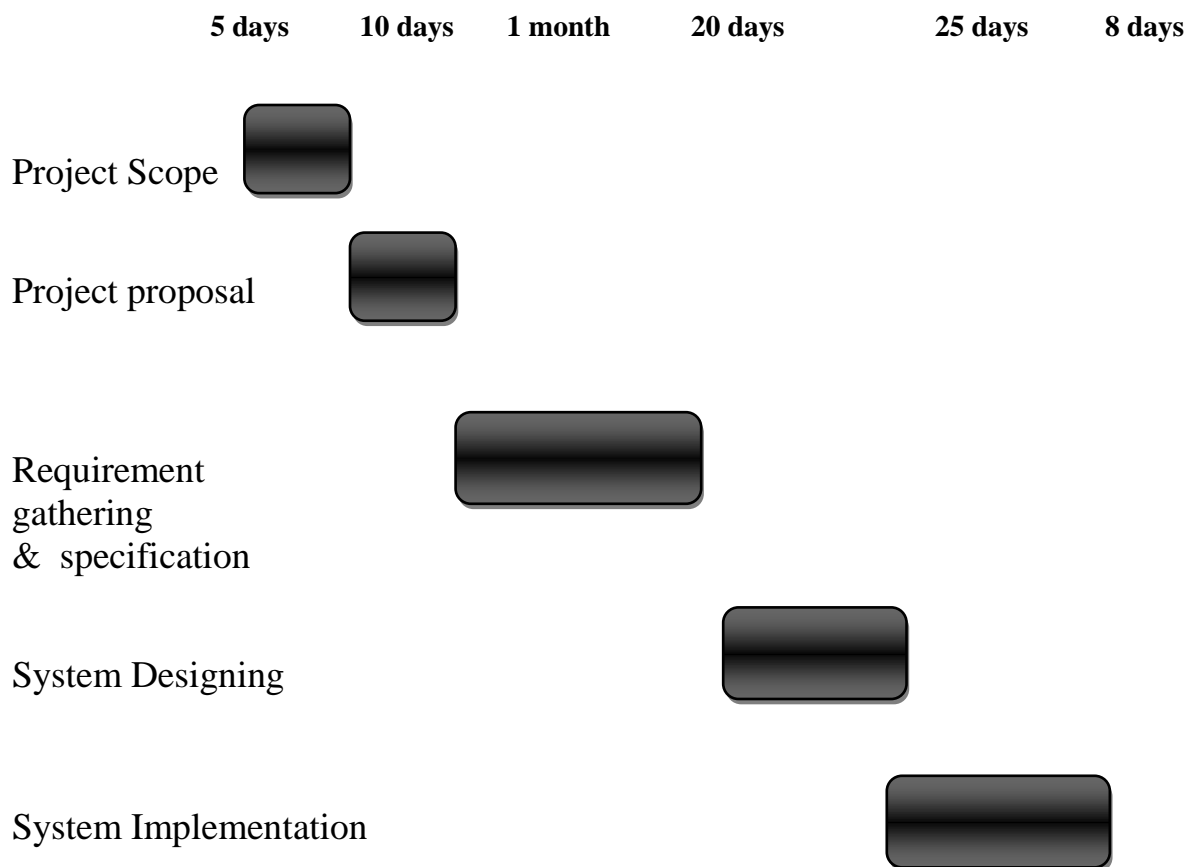


Figure 3.3.5.7: Project Scheduling

CHAPTER 4

SYSTEM DESIGN

4.1 Architectural Design

Architecture focuses on how the major elements and components within this application are used by, or interact with, other major elements and components within this application. This System is designed with consideration for the user, and the business goals. For each of these areas, I try to outline key scenarios and identify important quality attributes.

4.1.1 Activity Flow Diagram

Activity diagram is basically a flow chart to represent the flow from one activity to another activity. In this system to perform any operation at-first have to login into the system whatever s/he is admin or user. In this system Admin get all privileges to create/delete user. Here admin have lots of functionality to perform. And system user also have lots to functionality to perform regarding business logic.

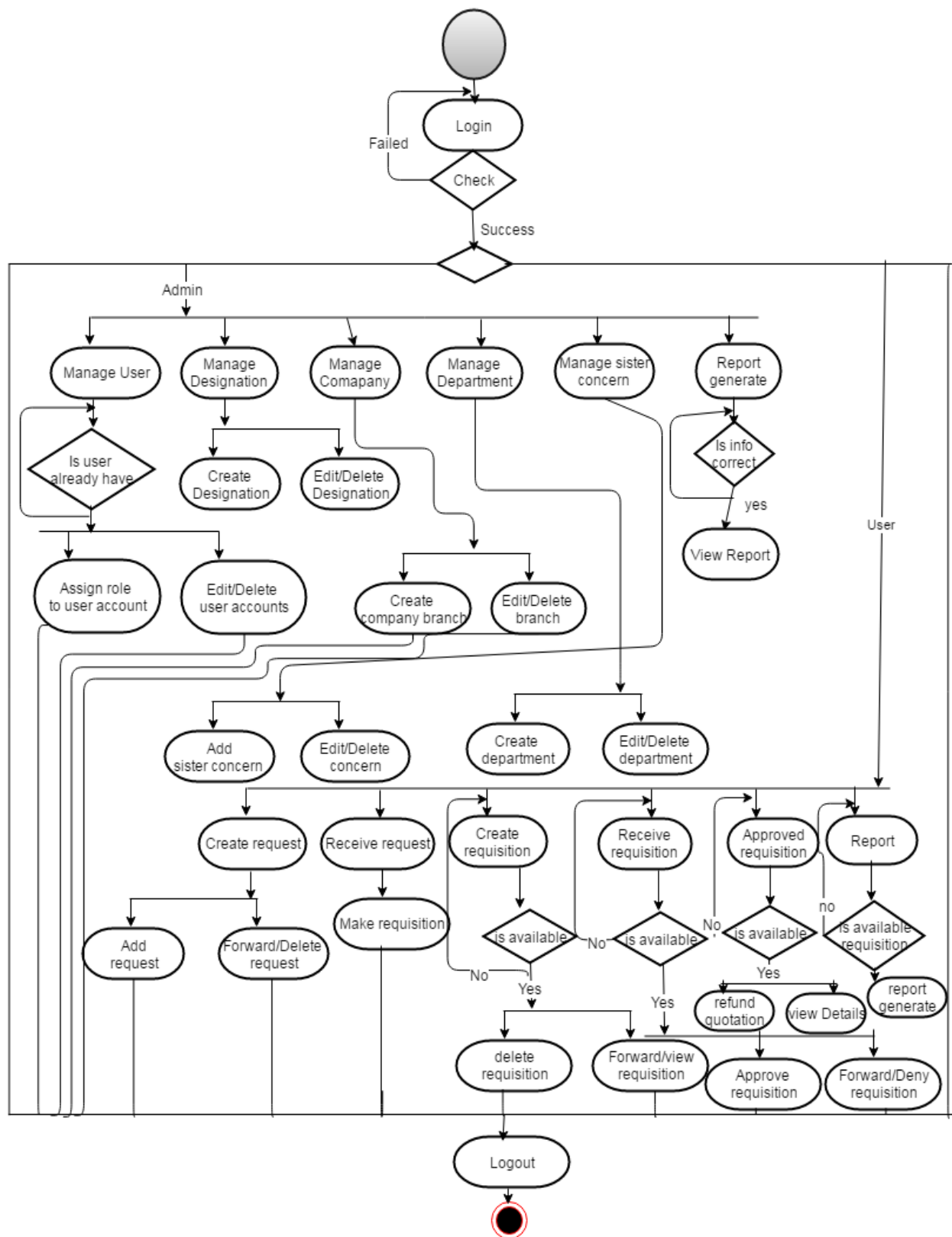


Figure: 4.1.1 Activity Diagram for Financial & management approval system

4.1.2 Context Diagram (DFD Level-0)

Dataflow diagram is a diagram that illustrates data processing by a system in term of inputs and outputs. The dataflow diagram enables the software engineer to develop models of the information domain and functional domain at the same time.

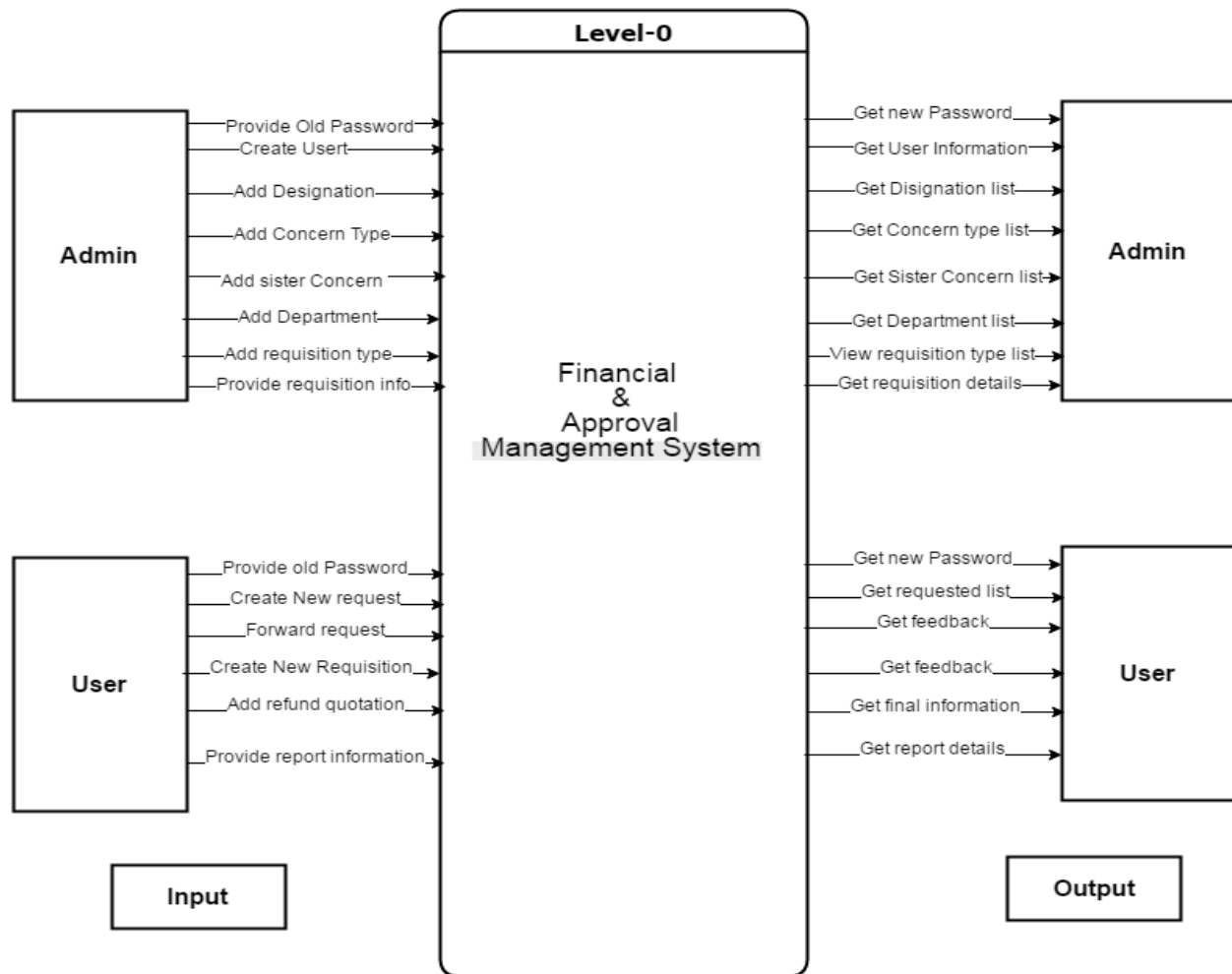


Figure: 4.1.2 Context diagram for Financial & management approval system

4.2 Detail Level Design (DLD)

4.2.1 Entity Relationship Diagram (ERD)

In this system ERD shows the relationships of entity sets stored in a database. An entity in this context is a component of data. It illustrates the logical structure of databases.

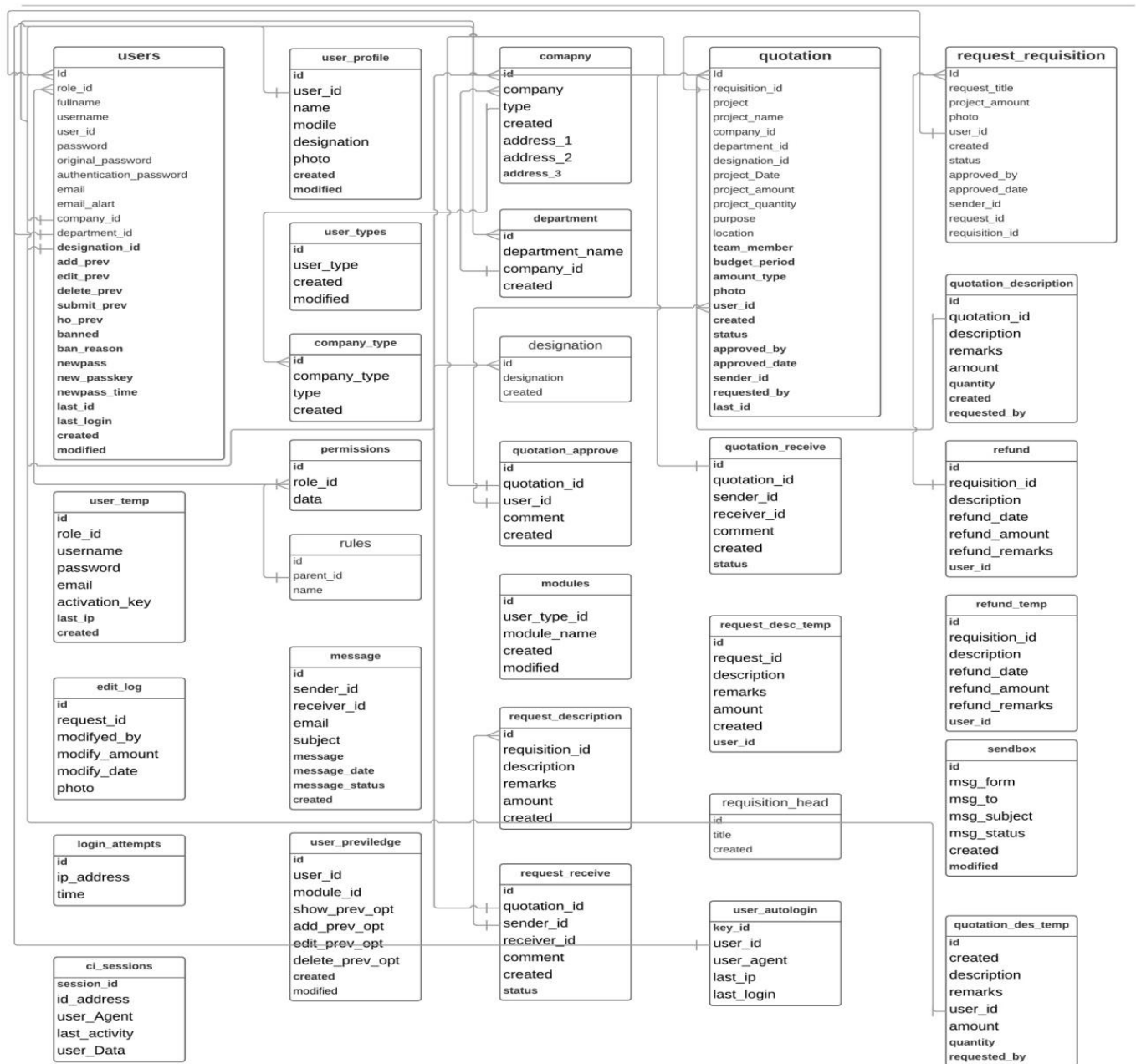


Fig 4.2.1: Entity Relationship diagram for FAMAS

4.2.2: Class Diagram

Class diagram describes the static view of this system. Class diagram is not only used for visualizing, describing and documenting different aspects of a system but also for constructing executable code of the software application. The class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagram shows a collection of classes, interfaces, associations, collaborations and constraints.

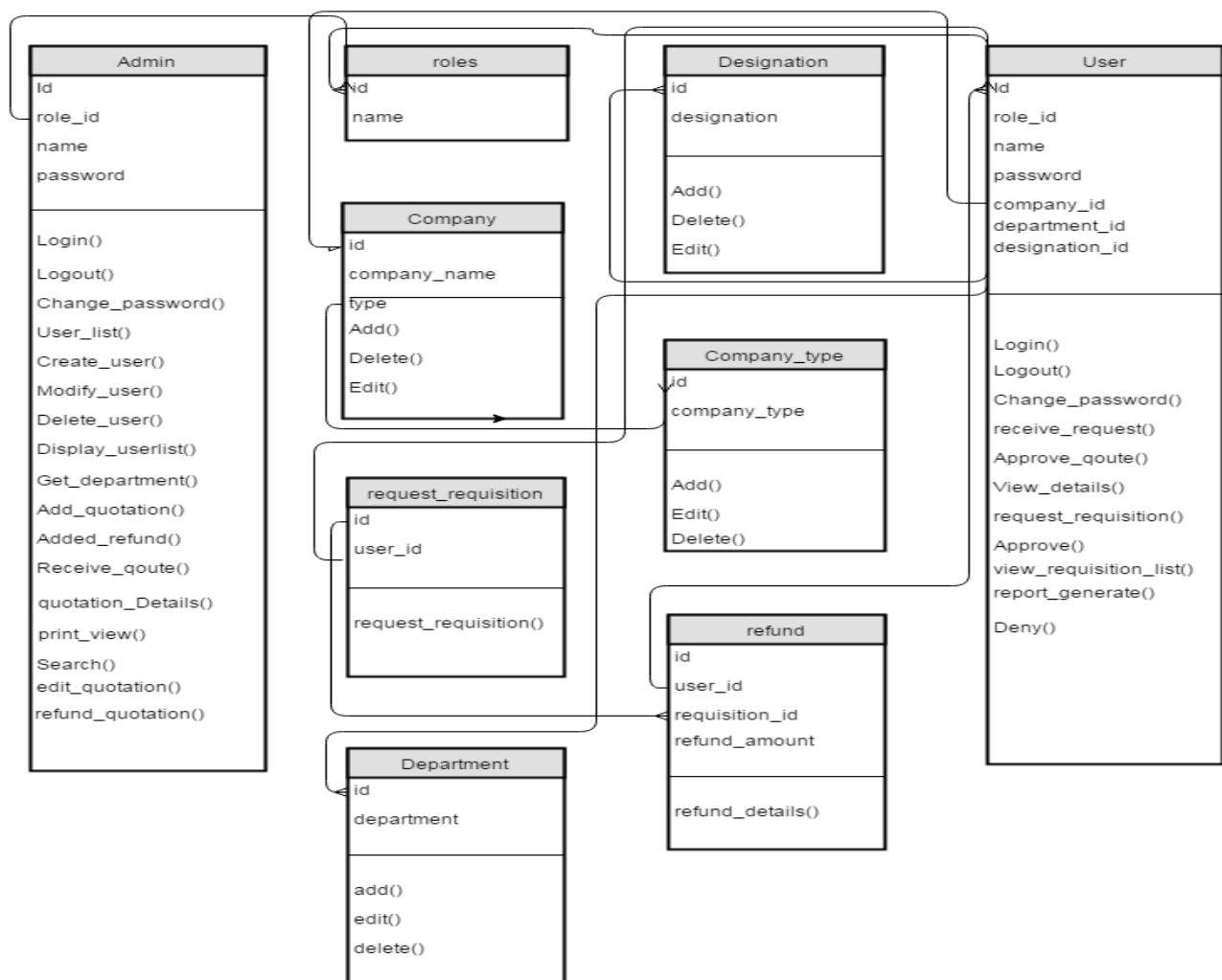


Figure 4.2.2 : Class Diagram for Financial & management approval system

Chapter 5

System Test & Completion

5.1 Test Plan

This test plan is generated for the Financial & management approval system (FAMAS). This test plan will help to test the functionality of this software. This test plan contains the test approach, what types of testing will take place and the test cases with their expected results.

This is the first version of test plan and it is at level 1 at this moment because, when new feature will be included in it, software test team will enrich this test plan according to change. Though in this project we only cover the result part so we emphasize on the result relevant activities, relevant test scenarios.

5.1.1 Test Plan Objectives:

Main reason to design test plan to ensure the features of (FAMAS). Most of the test work will be done manually. And at this point this is the master test plan. This document describes the plan for testing the FAMAS. This test plan document has the following objectives:

:

List the recommended test requirements.

- Identify existing project information and the software that should be tested.
- Identify the required resources and provide an estimate of the test efforts.
- List the deliverable elements of the tests activities

5.2 Test Strategies:

An effective testing strategy includes automated, manual, and exploratory tests to efficiently reduce risk and tighten release cycles. Lacking of automated test software enforces me to test FAMAS manually. So the Tests come in several flavors:

5.2.1 Unit Tests:

Unit test validate the smallest components of the system. This test ensures that they handle known inputs and outputs correctly. Unit test individual classes in your application to verify they work under expected, boundary, and negative cases.

5.2.2 Integration Tests:

Integration tests exercise an entire subsystem and ensure that a set of components play nicely together.

5.2.3 Functional tests:

Functional tests verify end-to-end scenarios that your users will engage in.

For my system i will perform unit testing first. Because unit testing will ensure that the all components of the system is working properly or not. If a single unit not work properly the integration test is not necessary to perform because in the smallest component is not working well. If the unit testing is work properly then we will perform integration test. Total system will be divided into some subsystem. And I will test all the sub system work properly or not. If the integration test perform well then we will move to functional test for total system is it work properly or not.

5.3 Test Items

This Test Plan describes the integration and system tests that will be conducted on the all the functionalities identified in FAMAS.

The following subsystems of FAMAS will be tested:

- User management section
- Login authentication process
- Calculate refund amount
- Is user notify requisition status or not
- Is admin/user will be able to see requisition details

5.4 Basic functionality test

The basic functionality tests are:

- Add user account
- Check is existing user or not
- Change user activity roles
- Requesting for requisition
- Is able to forward newly created requisition or not
- Is able to view receiving requisition or not
- Add/Edit/Delete User from admin panel
- Add/Edit/Delete concern type and sister concern area
- Add/Edit/Delete Designation
- Add/Edit/Delete Department
- Is admin able to create requisition report or not
- Is user able to create requisition report or not

5.5 Features to Be Tested

This is a listing of what is to be tested. And what are the expectations from the users' point of view.

Feature	Priority	Description
Create User Account	High	Admin will be able to create system user and give credential to the user for access into the system
Login	High	Both Admin & user have to login first to perform specific task.
Add company and company sister concern type	High	Admin will be able to Add company Branch and sister concern type.
Add department	High	Admin will be able to create department
Add designation	High	Admin will be able to add designation under department
View Report	High	Admin will be able to generate new report using user requisition id
Create requisition	High	User will be able to create new requisition and able to forward their requisition to desired user

Feature	Priority	Description
Get Notification	High	User will be notified by user whatever user requisition is approved or deny
User requisition report	High	User will be able to generate requisition report using time limit
Password update	High	Both Admin and user will be able to change password
Authentication	High	Without authentication confidentiality and integrity are not guaranteed.

5.6 Item Pass/Fail Criteria

Item pass or fail excel sheet is added with this document and in that sheet test cases are generated with the help of SRS. Now the criteria's for pass and fail are given below:

- According to the given scenario to expected result should be taken place then the scenario will be considered as pass otherwise that criteria should be failed.
- If an item tested 10 times, 9 times perfectly worked and single time do not work properly then it will consider as fail case.
- System crash will be considered as fail case

After submitting a query the system if expected page won't appear then it will be considered as fail case.

5.7 Schedule

Software testing or Quality assurance procedure starts at the very beginning of the Software development, when the requirement specification gathered by the requirement engineer. Then test team has to analyze requirement create relevant test scenarios, test case. From the beginning to the end the test process for PMS will follow this schedule.

Test Step	Start Time	End Time
Requirement review	15-10-2015	17-10-2015
Review Test Plan	18-10-15	20-10-2015
Unit Test	1-12-2016	02-01-2016
Functional Test	8-01-2016	10-01-2016
Integration Test	15-01-2016	20-01-2016

5.8 Test Cases and Test Results

This section will show the test cases as well as the test results that have been executed on this system throughout the testing process. It's not possible to test a system completely which will take infinite time generating infinite number of test cases. So, here we have generated test cases with our gut feelings. Here, we are going to show the test cases and their execution results module by module.

Feature	Scenario	Expected result	Pass
Create user page	System admin request for the create user page	Registration Page appears with proper information fields	Yes
	User rather than admin requests for the create user page	Registration page will not appear	Yes
Register new user	Admin submit the form with fulfill all required information by clicking the create button	Show a successful message that user is created	Yes
	Admin provides a user name which is already	System will notice the admin to provide a different username	Yes

Feature	Scenario	Expected result	Pass
	Exits.		
User Login Panel	User request for the login page	Login fields appear with proper information fields	Yes
	User provide wrong username & password	System will notice the user to provide accurate username and password	Yes
Change Password	User will be logged in into the system after that he/she will be eligible to click on password change option. Then if user have to provide accurate information	System will notice to the user a successful message	Yes
	If user will provide different password into password and retype password field then he/she is not eligible to change password	System will notice to the user a message which is your password and retype password is not same	Yes
Logout	User & admin will be able to logged out into the system. It appears a logout button	System will deny to access into system	Yes

CHAPTER 6

Conclusion

6.1: Goal

I hope all stack holder of a company will be benefited by using this software. So that they can do their works with much more ease. In this solution system admin will be able to give credentials to the user. Any user who have privilege to access the system he/she will be able to request their needs to desired user (management level employee).User can be able to make requisition and forward their requisition to desired user.

6.2: Limitation

In this software initially I mainly work on requisition part where user can make requisition to the management level. But I think need some statistics for overall purchase and sell details so that management can able to take decision shortly on the basis of that statistics.

6.3: Future Suggested Work

My promises are:

- I will update interface design to make it more user-friendly.
- Provide an apps where user will be notify whatever requisition is accepted or not.
- I will increase the reliability of the application.
- I will provide some statistics graph on the basis on user requisition so that management will be able to make operational decision easily.

References

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