**LIST OF FIGURES**

**S. NO. FIGURE NO. DESCRIPTION OF FIGURES PAGE NO.**

1. 3.1 Spiral Model 10
2. 3.2 Use Case Diagram 14
3. 3.3 Functionality Modules 19
4. 4.1 Class Diagram of Distributed System 26
5. 4.2 Class Diagram for Search Package 28
6. 4.3 Class Diagram of File Info Database 30
7. 4.4 Class Diagram of Web Server Package 31
8. 4.5 Path Browsing in UI 35
9. 4.6 Rating by User 36
10. 4.7 Videos in UI 37
11. 4.8 PDF files in UI 38
12. 4.9 Output of Ping 39
13. 4.10 Partial Search in UI 40
14. 4.11 Full Search in UI 41
15. 4.12 Recommendation of all files and folders 42
16. 4.13 Recommendation of Videos 43
17. 4.14 File type 44
18. 4.15 Log file for System 45
19. 4.16 Description of main packages 46

**ABSTRACT**

Recommender systems are now popular both commercially and in the research community, where many approaches have been suggested for providing recommendations. In many cases a system designer that wishes to employ a recommendation system must choose between a set of candidate approaches. Recommender systems have the effect of guiding users in a personalized way to interesting objects in a large space of possible options. Content recommendation systems try to recommend items similar to those a given user has liked in the past.The goal of this project is to describe the content recommendation systems for LAN i.e. Systems that recommend an item to a user based upon a description of the item and a profile of the user’s interests. Content recommendation systems may be used in a variety of domains ranging from recommending web pages, news articles, restaurants, television programs, and items for sale. Although the details of various systems differ, content-based recommendation systems share in common a means for describing the items that may be recommended, a means for creating a profile of the user that describes the types of items the user likes and a means of comparing items to the user profile to determine what to recommend. The profile is often created and updated automatically in response to feedback on the desirability of items that have been presented to the user.

This chapter provides an overview of content recommender system for LAN , with the aim of imposing a degree of order on the diversity of the different aspects involved in their design and implementation. The actual project has been implemented together by using a variety of technologies used together. The application runs in browser.

In order to solve the problem of recommending items over the LAN we need to deal with the issue of designing the distributed system to distribute operations to get best performance.

TABLE OF CONTENTS

**LIST OF FIGURES**i

**ABSTRACT**ii

**1- INTRODUCTION**1

1.1 Introduction to LAN1

1.2 Introduction to Recommendation System2

1.3 Goals and Objectives3

**2- REVIEW OF LITERATURE**4

2.1 Overview4

2.2 Content based filtering6 2.3 Mobile Recommender Systems7

2.4 The Netflix Prize8

2.5 Problem Statement8

2.6 Solution to Problem9

**3- MATERIALS AND METHODS** 10

3.1 Process Model10

3.2 Requirement Analysis and Feasibility Study11

3.2.1 Problem Recognition11

3.2.2 Evaluation and Synthesis12

3.2.3 Modeling12

3.2.4 Use Case Diagram13

3.2.5 Specification15

3.2.5.1 Hardware Specification15

3.2.5.2 Software Specification15

3.2.5.2.1 Eclipse IDE15

3.2.5.2.2 Notepad++16

3.2.5.2.3 Firefox16

3.2.5.2.4 VLC media Player16

3.2.5.2.5 JDK 1.717

3.2.5.2.6 JCIFS Library17

3.2.6 Supported Operating Systems17

3.2.7 Feasibility Study18

3.2.7.1 Economical Feasibility18

3.2.7.1 Operational Feasibility18

3.3. Design19

3.3.1 Functionality Modules19

3.3.1.1 Distributed System20

3.3.1.2 User Interface21

3.3.1.3 Data Collection21

3.3.1.4 Behavior Learning21

3.3.1.5 Searching22

**4. RESULTS AND DISCUSSION**23

4.1 Implementation23

4.1.1 User Interface24 4.1.2 Distributed System24

4.1.3 Searching & Sorting26

4.1.4 Recommendation28

4.1.5 File information Database29 4.1.6 Web Server31

4.1.7 Logging32

4.1.8 Java Docs32

4.2. Testing32

4.2.1 Black Box Testing33

4.2.2 White Box Testing34

4.3 Result35

**5. SUMMARY AND CONCLUSION**47

5.1 Future Improvement47

**LITERATURE CITED**50

**ABBREVIATIONS**51

**BIODATA**52