OOP Project
Report

User File Handling

Bachelor of Technology
in
Computer Science and Engineering

Submitted by

Roll No	Names of Students
15UCS027	Ashish Karel
15UCS088	Nitin Chaudhary
15UCS096	Pradyumn Agrawal
15UCC040	Zayed Syed

Department of Computer Science and Engineering
THE LNM INSTIUTE OF INFORMATION TECHNOLOGY, JAIPUR
Jaipur, Rajasthan, India – 302031

Winter Semester 2017

Contents

Chapter 1

Project Description

User File Handling

Our project deals with problems of handling multiple files of many users at the same time. An user can edit, delete, view or create files in his account. Each account will have a unique **username** and **password** required to authenticate his accessibility over the files. It will have its own database of files and users.

Chapter 2

Module Overview

2.1 User Interface Module

This module will deal with the JSP(Java Server Pages) part which will take inputs such as username, password and queries of any user. And all the output will be showed in this page in User Interactive way.

2.2 Authentication Module

This module will deal with authentication of the user with its username and password. If any of the two mismatches, an error message will pop on the screen. If authentication succeeds, user will be given access to it's storage.

2.3 File Handling Module

This module will handle all the queries given as input by the authenticated user.User can edit, delete, view and create a file. Queries will converted in the form of commands which will be executed in the terminal.

2.4 Database Management Module

This module deals with the management of files of each user.If user make changes to any file or delete any file, updation of database will take place here.
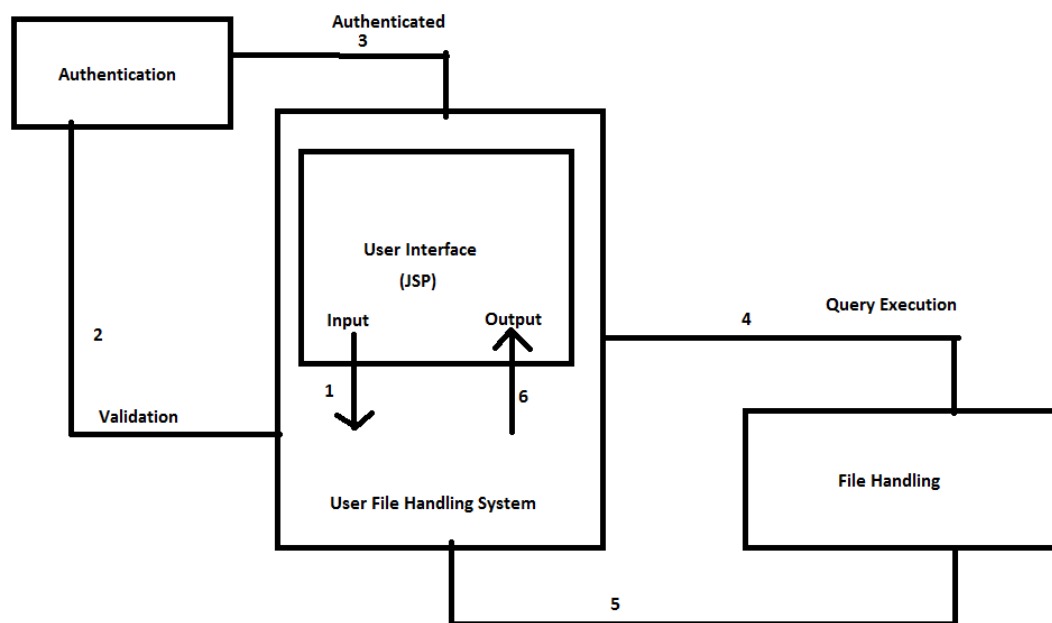
Chapter 3

Modules Description

Authentication

Authenticated
3

User Interface
(JSP)

Input **Output**

2

1 **6**

Query Execution
4

Validation

File Handling

User File Handling System

5

Figure 3.1: Classes and Input - Output Diagram

3.1   Authentication Module

3.1.1   Import Usernames

This method will import usernames from username database and insert it into Trie Data Structure with the details of Encrypted Password.

3.1.2   Authenticate User

This method will match the user input password with the encrypted password, if it matches then query part is called else error message is shown on the screen.

3.1.3   Queries Input

This method takes the input quesries and convert it into executable commands for MySQL.

3.2   File Handling Module

3.2.1   Edit File

File at particular directory will be edited.And it's details will be updated in database.

3.2.2   Create File

File at particular directory will be created.And it's details will be added in database.

3.2.3   Delete File

File at particular directory will be deleted.And it's details will be deleted in database.

3.2.4   View File

File at particular directory will open up in front of user.
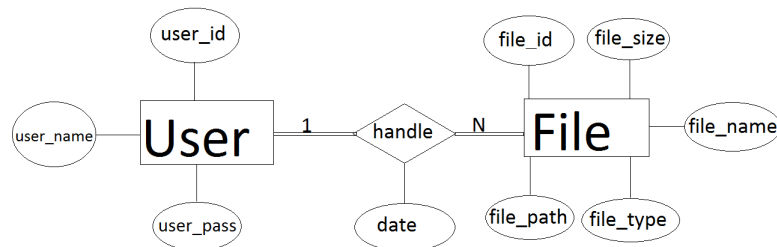
3.3 Database Module

Figure 3.2: ER - Diagram of Database

3.3.1 Database Connection

In this method, database will be connected to Java Program and Java Server Page, to efficiently take input and provide output.

3.3.2 Import Database

Existing Database will be loaded during execution of program and all Usernames will be updated in Trie Data Structure.

3.3.3 Edit Database

In this method, database corresponding to query will be updated.

Chapter 4

Project Description

4.1   Classes

- User Authentication

- File Handling

- Database Handling

- User Interface

4.2   Interfaces

- Serializable

- Runnable

**Above Interfaces may or may not be used according to require-
ment.More interfaces and classes may be used in development
phases of the Project according to requirement.**