VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI - 590 018, KARNATAKA



A Mini Project Report on

"PLACEMENT MANAGEMENT SYSTEM"

Submitted in the partial fulfillment for the requirements for the FS Lab with Mini Project (18ISL67)

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INFORMATION SCIENCE AND ENGINEERING

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CERTIFICATE

This is to certify that the Project work entitled "Placement Management System" is a bonafide work carried out by Mr. A Gautham (1BY19IS001), Mr. Abhilash A Pujar (1BY19IS005) in partial fulfillment of File structures Lab with Mini Project (18ISL67) for the award of Bachelor of Engineering Degree in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in this report. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work for the B.E Degree.

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1.

2.

ACKNOWLEDGEMENT

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By,

A Gautham

Abhilash A Pujar

ABSTRACT

Placement Management System is built using Java Swing Library, it is a fast-flexible file computer system that helps manage the information related to college student placement database effectively. They manage the data related to all student academic details concerned with campus placements for the campus placement drive which is conducted annually.

Placement Management system is a software application built for campus placement and training department for accessing student details and making further placement process easier.

Placement Management System offers the following functionalities:

- Adding and Modifying new Student Records: New student records can be added and modified.
- **Deleting Existing Records:** Existing student records can be deleted.
- **Search:** Allows users to search existing student records by various categories like search student details by USN, Branch, Company.
- **Display:** All records in the system can be displayed.
- Ledger: Using General Ledger Problem, all modifications made are displayed
- **Eligibility:** Placement eligibility of all students can be viewed where each student details are displayed according to their eligibility criteria and which company they are eligible to.

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This chapter gives the introduction of the Placement Management System and all the features that system contains, problem statement and the limitations of the system.

Introduction

1.1 Outline

Placement Management System stores record system that can be used as an application for the Placement Officer of the college to manage the student information with regards to placement. So all the information will store the details of the students including their background information, educational qualification, personal details, and all the information related to their resume. This system helps Company to access the student information with regards to placement.

Typical Features include:

- Insert/Modify Student Records This system helps the placement team to insert each student record once and update it timely, and store it for further usages during placements, segregating students based on their CGPA, their interests and aspirations based on the eligibility criteria.
- **Delete Student Records** This system enables options of deleting existing student records, or wrongly entered student record.
- Eligibility View As a part of final consolidated view this system provides a view of student
 where each student's eligibility criteria is checked and corresponding eligible companies are
 displayed.
- **View Changes** We have an option to view each and every changes done to each record from the time of insertion followed by any number of modifications done to the record.
- **Searching Student record** As with placement system will always want to categorise students and view particular set of records at a time, this system enables such features by providing variety of search categories namely search by USN, search by branch, search by company.

Placement Management System provides a clear picture of all students where they stand in terms of placement eligibility criteria and which companies they are eligibility to, it provides an efficient search feature to the user which helps the placement handling team to search records of student by their USN, or set of records by each branch, or by the company name.

1.2 Motivation and Scope

- Nowadays we all are using the internet to do multiple things like booking, academic search, and blogging, apply for any job, etc. This system can be used as an application to manage student information related to placement.
- The system handles student as well as company data and efficiently displays all this data to
 respective sides. This System does all work regarding placement like collecting student
 records and finding the eligibility of the students and is provided to Placement Officer,
 Company, College staff and students.
- This system can be used as an application for the Placement Officer of the college to manage the student information with regards to placements, which presently is a cumbersome task via excel sheet database.

1.3 Problem Statement

Design and develop a system for campus placement cell that manages student information in the college with regard to campus placements, which improves existing system. It has the facility of maintaining the details of the student. Placement Management System can be accessed throughout the college. Thus this stand-alone application will be used as an application for the Placement Officer of the college to manage the student information with regards to placements.

1.4 Limitations

Placement Management System uses components from the Java Swings which is pretty outdated in comparison to JFX and other GUI building technologies. There is scope of improvement in better GUI and more user interactivity options, People prefer HTML + JS over Java. We can embed AI system to categorise students based on their skills and interests and their eligibility. More over since our developed system is in the initial stages of development many functions are yet to be implemented such as,

- Data Compression
- Undo and Redo

This chapter specifies the functional and non-functional requirements of the Placement Management System which includes requirements like performance, reliability, usability, integrity.

Requirements Specification

2.1 Functional Requirements

Inserting a record

This requires the user to create a new file handle, in this unit, User can insert a student record and write the content to the file. Next, if the record already exists then the student record is added to the Ledger File with modifications if any.

Deleting an Existing Record

Here the user can delete the contents of a specific student record by entering the respective student's USN. If the record exists, then the contents of the record are deleted. Otherwise, an appropriate message is displayed.

Displaying a Record

When a user enters this option, the user can view all the updated student records in the file.

Searching a Record

Here the user can view the contents of a specific student record by entering the respective student's USN, search by branch or also search by company details. If the record exists, then the contents of the record are displayed. Otherwise, an appropriate message is displayed.

View Changes

In this unit, the user can view the ledger file of each student and thereby can be updated with all the changes of all student records.

View Eligibility

Here the user can view the placement eligibility criteria of all the students in the record along with the various categories of placements based on college eligibility criteria. 2.2 Non-Functional Requirements

Performance

Performance of Placement Management System should always vary between a few hundred

milliseconds. Time taken to creating records, Displaying records, Searching records, Deleting

records, Viewing eligibility from within the file should be minimal.

Reliability

Placement Management System shall always provide fast and flexible file editing functionality no

matter what the environment. System shall be robust enough to have high degree of fault tolerance.

For example, if a user tries to open an invalid file it should display a proper error message. It shall be

able to recover from hardware failures, power failures and other natural catastrophes and rollback the

files to their most recent valid state.

Usability

Placement Management System shall provide an easy-to-use graphical interface similar to other

existing text file editors so that the users do not have to learn a new style of interaction. Any

notification or error messages generated by this system shall be clear, succinct, polite and free of

jargon.

Integrity

The system must be programmed properly to prevent exploitation through buffer overflows etc. The

system should be secure and could use encryption to protect the files. Users need to be authenticated

before having access to any personal data.

Interoperability

The System shall minimize the effort required to couple it to another system, such as an Integrated

Development Environment.

2.3 Domain Constraints

Hardware limitations: There must be a 64 MB on board memory

Control functions: The software must be very user-friendly and display appropriate error messages.

Dependencies: Requires JDK 8, Java SE and Java Swing Library. Parallel operations: It must

support many file operations simultaneously.

Safety/security considerations: The application must be exited always normally.

This chapter depicts about all System/Requirement Analysis and the functions that user can perform in Placement Management System.

System/Requirements Analysis

3.1 Overall System Description

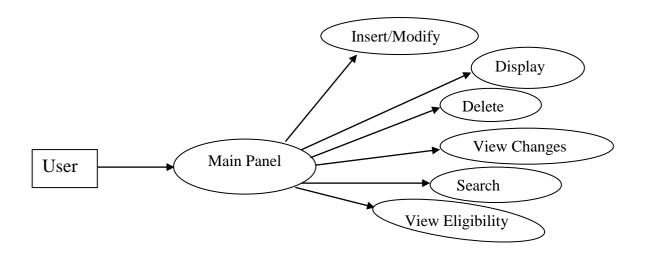


Fig. 3.1.1: Overall System Design

The overall description of the system is as follows:

The user is first presented with the Main Menu. Here user has a set of six options:

Insert: In this unit, User can insert a student record and write the content to the file. Next, if the record already exists then the student record is added to the Ledger File.

Display: In this unit, the user can view all the updated student records in the file.

Delete: In this unit, the user can delete the contents of a specific student record by entering the respective student's USN.

Search: Here the user can retrieve the required student's record by entering his/her USN, branch, company.

View Changes: In this unit, the user can view the ledger file of each student and thereby can be updated with all the changes of all student records.

View Eligibility: In this unit, the user can view the entire list of records nd students eligibility to various companies.

3.2 Components/Subsystem Design

Create File Module

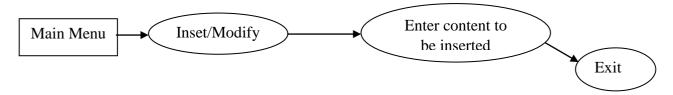


Fig. 3.2.1: Create File Flow Diagram

This requires the user to create a new file handle, in this unit; User can insert a student record and write the content to the file. Next, if the record already exists then the student record is added to the Ledger File.

Display Record Module

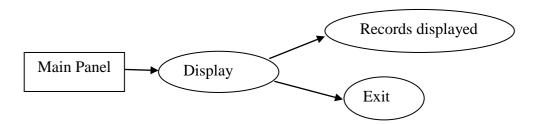


Fig. 3.2.2 Open File Flow Diagram

When a user enters this option, the user can view all the updated student records in the file.

Delete Record Module

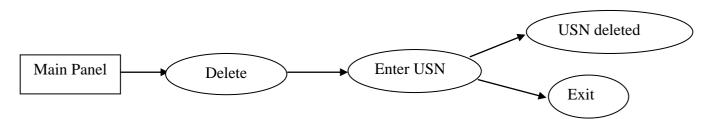


Fig. 3.2.3: Find and Replace Flow Diagram

Here the user can delete the contents of a specific student record by entering the respective student's USN. If the record exists, then the contents of the record are deleted. Otherwise, an appropriate message is displayed.

View Changes Module

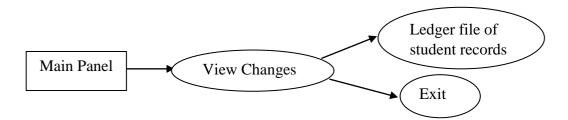


Fig. 3.2.3: Find and Replace Flow Diagram

In this unit, the user can view the ledger file of each student and thereby can be updated with all the changes of all student records.

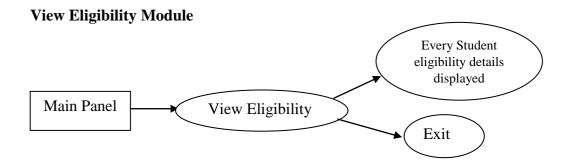


Fig. 3.2.3: Find and Replace Flow Diagram

Here the user can view the placement eligibility criteria of all the students in the record along with the various categories of placements.

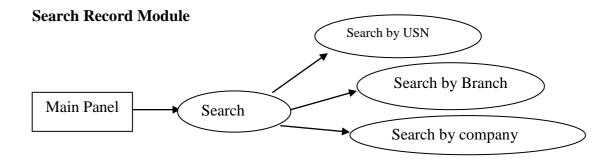


Fig. 3.2.3: Find and Replace Flow Diagram

Here the user can view the contents of a specific student record by entering the respective student's USN, by branch or by company details. If the record exists, then the contents of the record are displayed. Otherwise, an appropriate message is displayed.

General Ledger Management

Using General Ledger Problem, users are provided with a feature where they can see the history of all changes made to all records.

Finally, it provides information about the eligibility criteria for various packages and displays the list of all the company and packages each student is eligible for.

Using consequential matching and merging, we access all the records in both the sorted files.

The system contains:

A *journal file*, with the Student details for current semester that are ultimately to be posted to the ledger file, where the each student is marked by their USN.

A **ledger file**, containing Branch wise and Sem wise summaries of the values associated with each student.

This chapter gives the entire information of UI details that user can view and also shows about the functionalities that user can perform.

System Design

4.1 UI Logic Interface/Interaction Details

Home Page



Fig 4.1.1: JButton Insert/Modify Details

id: insert; ActionEvent: go to Insert page

This Button is used to navigate from home page to insert page to inset student records.



Fig 4.1.2: JButton Delete Record

id: delete; ActionEvent: go to Delete page

This Button is used to navigate from home page to delete page to delete student records.



Fig 4.1.3: JButton Display Record

id: display; ActionEvent: go to Display page

This Button is used to navigate from home page to display page to view all student records.



Fig 4.1.4: JButton Search Record

id: search; ActionEvent: go to Search page

This Button is used to navigate from home page to search home page to select search category.

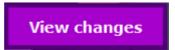


Fig 4.1.5: JButton View Changes

id: ledger; ActionEvent: go to View Changes page

This Button is used to navigate from home page to view ledger of student records.



Fig 4.1.6: JButton Placement Eligibility

id: eligible; ActionEvent: go to Placement Eligibility page

This Button is used to navigate from home page to student eligibility page.

Insert Page



Fig 4.1.7: JButton Insert

id: insert ; ActionEvent: Insert

This Button is used to inset record into files after user has entered values in the inset page.

Delete Page Delete

Fig 4.1.8: JButton Delete

id: delete; ActionEvent: Delete

This Button is used to delete record from files with matching credentials.

Search Page

Search

Fig 4.1.9: JButton Search

id: search; ActionEvent: Search

This Button is used to search record from files with matching credentials.

Display Page

Display

Fig 4.1.10: JButton Display

id: display all records; ActionEvent: Display

This Button is used to dispaly record from files with matching credentials.

View Changes Page



Fig 4.1.11: JButton Display (View Details)

id: display all changes; ActionEvent: Display

This Button is used to display record from ledger file to view all modification done to the record.

Placement Eligibility Page



Fig 4.1.12: JButton Display (Placement Eligibility)

id: display eligibility of all records; ActionEvent: Display

This Button is used to display record of eligible students for plcements.

Common to all Pages



Fig 4.1.13: JButton Go Back

id: back

ActionEvent: go to Home Page

This Button is navigate back to home page from current page in UI.

This chapter gives the entire information of how the user can implement Placement Management

System and frameworks and IDE required to implement the project.

Implementation

5.1 Description of Frameworks Used

Java Swing

Java Swing is a GUI Framework that contains a set of classes to provide more powerful and flexible

GUI components than AWT. Swing provides the look and feel of modern Java GUI. Swing library is

an official Java GUI tool kit released by Sun Microsystems. It is used to create graphical user

interface with Java. It defines infrastructure common to most desktop applications, making Swing

applications easier to create.

Swing classes are defined in javax.swing package and its sub-packages. Features of JFC:

• Swing GUI components.

• Look and Feel support.

• Java 2D.

Swing Classes

JPanel: JPanel is Swing's version of AWT class Panel and uses the same default layout,

FlowLayout. JPanel is descended directly from JComponent.

JFrame: JFrame is Swing's version of Frame and is descended directly from Frame class. The

component which is added to the Frame, is referred as its Content.

JWindow: This is Swing's version of Window and has descended directly from Window class. Like

Window it uses BorderLayout by default.

JLabel: JLabel has descended from JComponent, and is used to create text labels.

JButton: JButton class provides the functioning of push button. JButton allows an icon, string or

both associated with a button.

JTextField: JTextField allow editing of a single line of text.

5.2 Description of Integrated Development Environment

Ecllipse

Eclipse is an integrated development environment (IDE) for developing applications using the Java programming language and other programming languages such as C/C++, Python, PERL, Ruby etc.

The Eclipse platform which provides the foundation for the Eclipse IDE is composed of plug-ins and is designed to be extensible using additional plug-ins. Developed using Java, the Eclipse platform can be used to develop rich client applications, integrated development environments and other tools. Eclipse can be used as an IDE for any programming language for which a plug-in is available.

The Java Development Tools (JDT) project provides a plug-in that allows Eclipse to be used as a Java IDE, PyDev is a plugin that allows Eclipse to be used as a Python IDE, C/C++ Development Tools (CDT) is a plug-in that allows Eclipse to be used for developing application using C/C++, the Eclipse Scala plug-in allows Eclipse to be used an IDE to develop Scala applications and PHPeclipse is a plug-in to eclipse that provides complete development tool for PHP.

Among the features of the platform are:

- User interface management (e.g. menus and toolbars)
- User settings management
- Storage management (saving and loading any kind of data)
- Window management
- Wizard framework (supports step-by-step dialogs)
- NetBeans Visual Library
- Integrated development tools

Eclipse software development kit (SDK) is free and open-source software, released under the terms of the Eclipse Public License, although it is incompatible with the GNU General Public License. [11] It was one of the first IDEs to run under GNU Classpath and it runs without problems under IcedTea.

This chapter gives the results of each component test and System testing after each component is integrated.

Testing

6.1 Component Test

Home Page

TEST UNIT	TEST CASE	RESULT
Insert/Modify Details	Insert/Modify Details button is pressed	The system invokes the respective function and displays the window to insert details.
Delete Record	Delete Record button is pressed.	The system invokes the respective function and displays the window to delete a record.
Display Record	Display Record button is pressed.	The system invokes the respective function and displays the window to display all records.
Search Record	Search Record button is pressed.	The system invokes the respective function and displays the window to search for a record.
View Changes	View Changes button is pressed.	The system invokes the respective function and displays the window to view changes.
Placement Eligibility	Placement Eligibility button is pressed.	The system invokes the respective function and displays the window to check placement eligibility.

Fig 6.1.1: Home Page Tests

Insert/Modify Details

TEST UNIT	TEST CASE	RESULT
Insert	Insert button is pressed	The system displays a Message Dialog saying "Record Added!"
Insert	Insert button is pressed	The system displays a Message Dialog saying "A record already exists with usn <usn>" followed by another Message Dialog saying "Record Updated!" if usn already exists.</usn>
Go Back	Go Back is pressed.	The system invokes the respective function and displays the Home Page.

Fig 6.1.2: Insert/Modify Details Module Tests

Delete Record

TEST UNIT	TEST CASE	RESULT
Delete	Delete button is pressed	The system displays a Message Dialog saying "Record Deleted!"
Delete	Delete button is pressed	The system displays a Message Dialog saying "Invalid USN" if usn does not exist.
Go Back	Go Back is pressed.	The system invokes the respective function and displays the Home Page.

Fig 6.1.3 Delete Record Module Tests

Display Record

TEST UNIT	TEST CASE	RESULT
Display	Display button is pressed	The system invokes the respective function and displays all the records.
Go Back	Go Back is pressed.	The system invokes the respective function and displays the Home Page.

Fig 6.1.4 Display Record Module Tests

Search Record

TEST UNIT	TEST CASE	RESULT
Search	Search button is pressed	The system invokes the respective function and displays the search page.
Search by USN	Search by USN button is pressed	The system invokes the respective function and displays the student record.
Search by Branch	Search by Branch button is pressed	The system invokes the respective function and displays the Students in the particular branch.
Search by Company	Search by Company button is pressed	The system invokes the respective function and displays the Students aspiring for particular company.
Go Back	Go Back is pressed.	The system invokes the respective function and displays the Home Page.

Fig 6.1.5 Search Record Module Tests

View Changes

TEST UNIT	TEST CASE	RESULT
Display	Display button is pressed	The system invokes the respective function and displays all the changes made to all records.
Go Back	Go Back is pressed.	The system invokes the respective function and displays the Home Page.

Fig 6.1.6 View Changes Module Tests

Placement Eligibility

TEST UNIT	TEST CASE	RESULT
Display	Display button is pressed	The system invokes the respective function and displays eligibility status of all the records.
Go Back	Go Back is pressed.	The system invokes the respective function and displays the Home Page.

Fig 6.1.7 Placement Eligibility Module Tests

6.2 System Testing

TEST UNIT	TEST CASE	RESULT
Creating a file	Click on Insert button	Creates a new file onto the disk and stores a record
Inserting a record	Click on Insert button	Opens a previously created file from disk and inserts record.
Modifying a record	Click on Insert button	Opens a previously created file from disk and modifies a record.
Deleting a record	Click on Delete button	Opens a previously created file from disk and deletes a record.
Displaying records	Click on Display button	Opens a previously created file from disk and traverses through the file.
Searching a record	Click on Search button	Opens a previously created file from disk and finds a record.

Fig 6.2.1: Complete System Tes

This chapter gives the results of all the functionalities that user can perform and depicts the screenshots of each function.

Interpretation of Result

- Home page of the application which helps navigating to different functionalities.

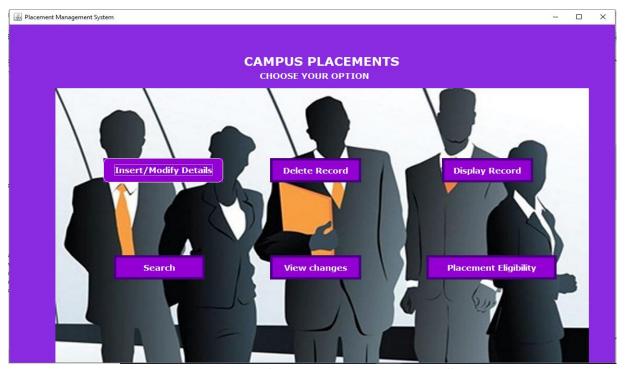


Fig 7.1: Main Panel of Placement Management System

- Insert/Modify page takes all user inputs of student records and checks for duplicates.

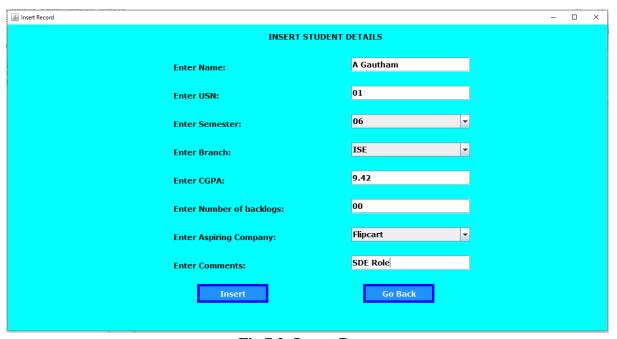


Fig 7.2: Insert Page

- Delete record page of the application which takes USN as user input and on the press of delete button the corresponding record is deleted.

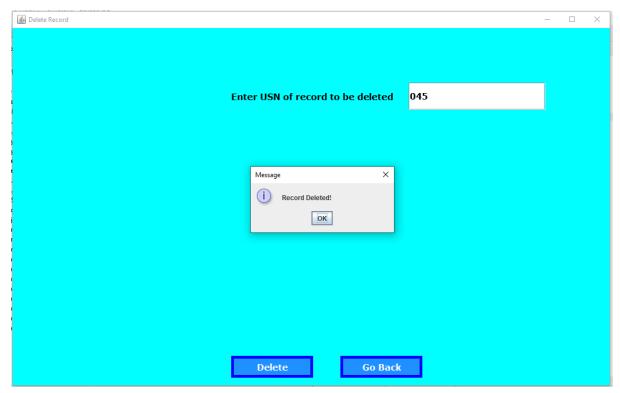


Fig 7.3: Delete Page

- Display record page of the application, when the Display button is pressed all the records in the file are displayed, Go back button navigates to home page.

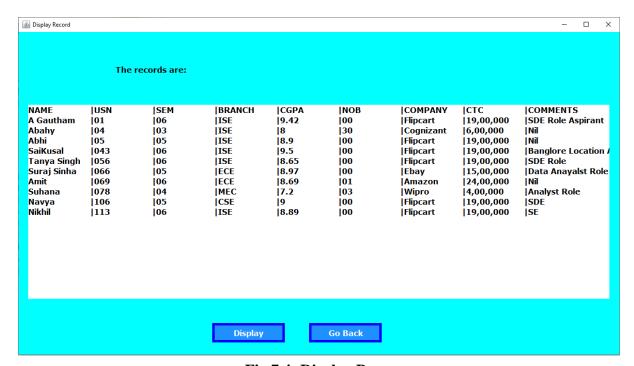


Fig 7.4: Display Page

- Search record page of the application, provides us with different categories of search and navigates us to corresponding search page.

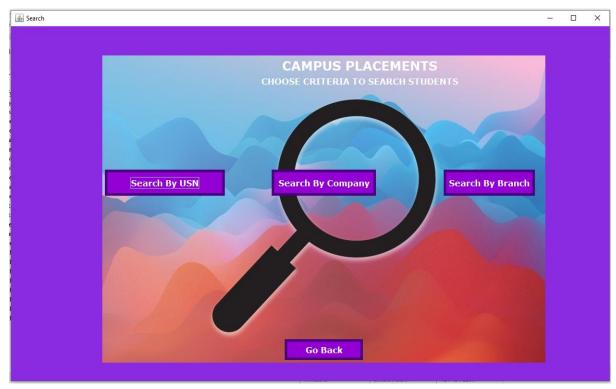


Fig 7.5: Search Page

- Search by USN page of the application, when the USN is entered & button is pressed the record matching with USN and if found in file then it is displayed.

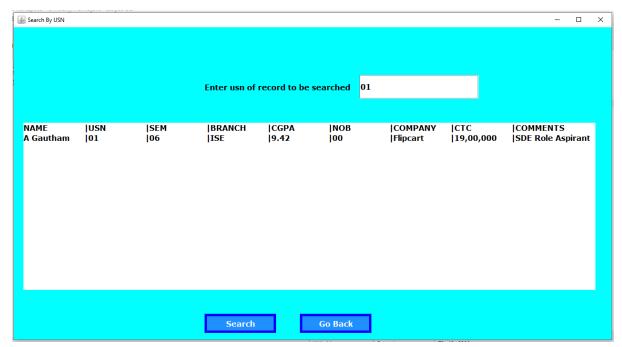


Fig 7.6: Search By USN Page (Match Found)

- Search by Branch page of the application, when the branch is selected from dropdown is entered & button is pressed all the records matching with branch selected, and if found in file then it is displayed.

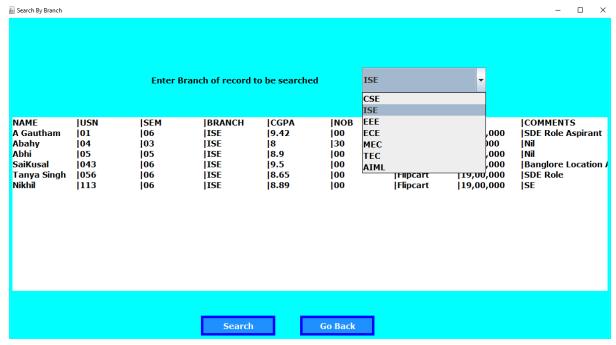


Fig 7.7: Search By Branch

- Search by Company page of the application, when the branch is selected from dropdown is entered button is pressed all the records matching with company selected, and if found in file then it is displayed.

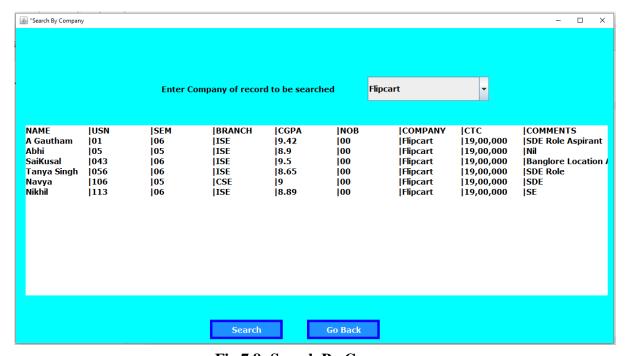


Fig 7.8: Search By Company

- View Changes page acts as a ledger file and displays all the changes done to a particular record and keeps a log of all activities performed.

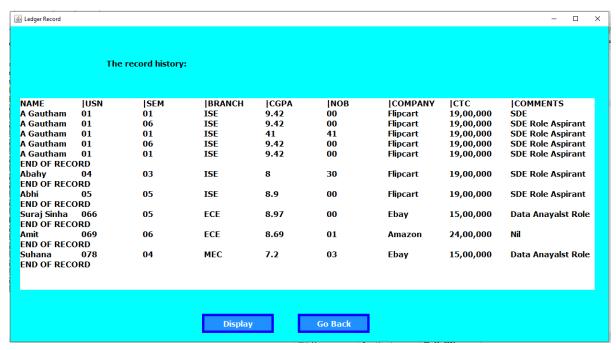


Fig 7.9: View Changes Page

- Placement Eligibility page displays records of all students and their eligibility to companies based on the credentials entered while inserting record.

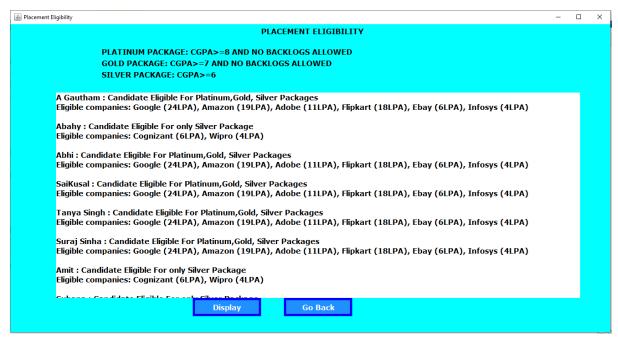


Fig 7.10: Placement Eligibility Page

 Student.txt file stored on disk containing all student record and terminated by default 999 record.

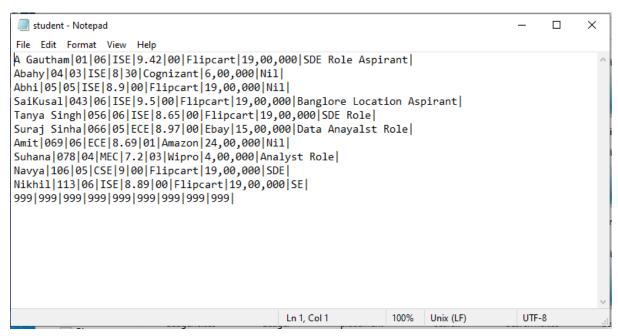


Fig 7.11: Student Records File

 journal.txt file stored on disk containing all student record and the modifications done on them.

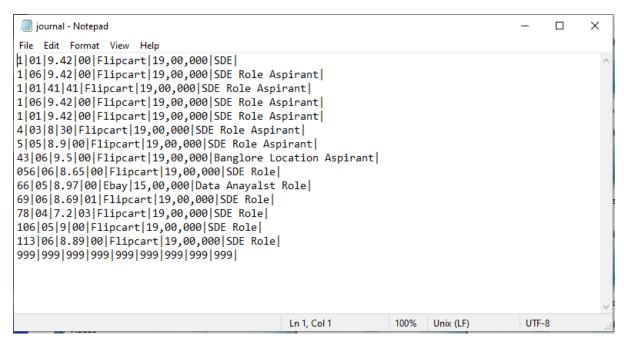


Fig 7.12: Ledger/View Changes File

- temp.txt file stored on disk containing all student record used for consequential merging and matching process.

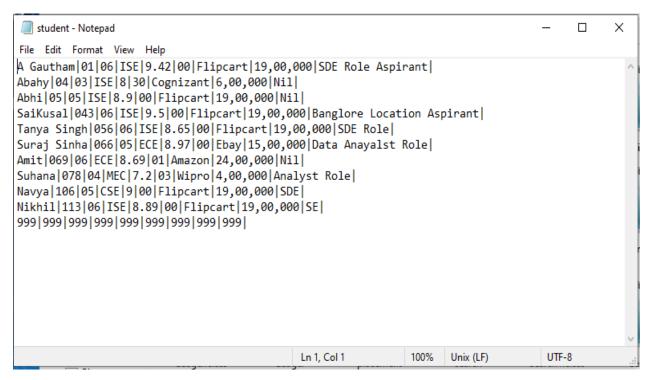


Fig 7.13: Student Temp File

Conclusion

Once this project is completed it offers users the following functionalities:

Allows users to easily create new student records and also allows them to modify it whenever there is a change in CGPA, number of backs, etc.

It allows the users to delete records if needed.

All records with the latest details can be displayed whenever the user needs it.

Users can search for a particular record as well which displays the requested record with the latest details and offers categories of search like search by USN, search by branch and search by company.

Using General Ledger Problem, users are provided with a feature where they can see the history of all changes made to all records.

Finally, it provides information about the eligibility criteria for various packages and displays the list of all the company and packages each student is eligible for.

Overall, it provides the necessary features for managing a placement database in the form of files. This application is a Cross Platform and Architecture independent and can run efficiently on Widows, Mac or Linux as long as JAVA installation files are present on the system

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