

# Self-Regulating Result Analysis from Raw Data to a Presentable Format

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**Abstract:** *The result that the organizations obtains from the Savitribai Phule Pune University (SPPU) are in PDF (Portable Document File) design file. The task to examine and operate them manually is very boring job to be performed manually. This is where text mining originated into bright to accept these kind of happenstances. Text mining has very excellent contribution for programmers and scientists to excavation data out from flat files. Text mining overlooks the jobless documented data and only goals only on the required data shapes. Text mining plays important role because its center of functioning is devising patterns into necessary format or could be said that it derives a very quality information from the given flat file. So by adopting the technology the text mining we are able of promising this project. It is a methodology towards automation in educational field by using the data assessment and manipulation.*

## 1. Introduction

The times of results broadcasting in newspapers are gone, today's world witnesses technology rebellion that brings out a very dramatic change in lives of people. This is the era of technical revolution a bunch of people examining computer generated result manually is very ill-fated circumstance and in this situation there are chances of errors, biasing, etc. The result that the institutions receives from the Savitribai Phule Pune University is in PDF(Portable Document File) format file. This particular project is adapting the concept Regex in J2EE (Java) the Regex API is used. This is when the prominent and vital knowledge i.e. text mining comes into existence ,here the controller goes word to word for arrangement matching , and eradicating redundant data out of the PDF. By using preprocessors and report generators in Graphical format or Dynamic report (i.e. the output) are produced as per the user's needs. Reports are produced in PDF.

## 1.1 Statement of the problem

A reliable and secure information is vital in today's education system with respect to result dispensation. This has become a vital matter as students spend so much time trying to know their GPA's. The prevailing system of processing result happenstances this problem which has led to time wasting and inexactness of results. Furthermore, cases of missing result have been recorded thereby making examination result processing has become more difficult and time consuming process .Connected issues also include the risk of loss of students information in case of any technical issue, the long length of time taken to process the students result, the question of how protected is the students info and the problem of biasing/unlearned harmed while entering results physically for a large quantity of students.

## 2. Aim and Objectives of the Study

The aim of this work is to design an automatic result processing system that will increase through put and decrease the response time involved in processing students result directly after receiving result from the organization. The system will enable students register courses and in turn, enable Lecturers upload student's results every semester or as per their requirement.

The objectives of the study include:

1. To design an automated result processing system as an actual and efficient tool for course adviser.
2. To highlight the role of Info Communication Technology in service distribution for the institution
3. To provide a stage for effective process course directing

### 2.1 Modes of Result Processing System

Basically, there are two modes of result processing namely, the labor-intensive mode system and electrical mode system. Result can be processed manually with the use of embryonic tools such as tabs and calculators. The processing of result by

machines in general in such a way as to reduce to a lowest, the need for manual processing is referred to as automatic data Processing. Result processing is mostly done by computers, and the methodology is referred to as electronic data processing. Generally the result processing methods are:

**2.1.1 Manual System:** This is the case where the result processing and generation for the departments are carried manually. This manual system of result processing, as observed in this study has many glitches, among which are:

1. Delays in carrying out these activities due to tediousness.
2. Missing results due to imprecision or misplacement.

### 3. Design & Implementation

Here the design demonstrations who the system is working towards:

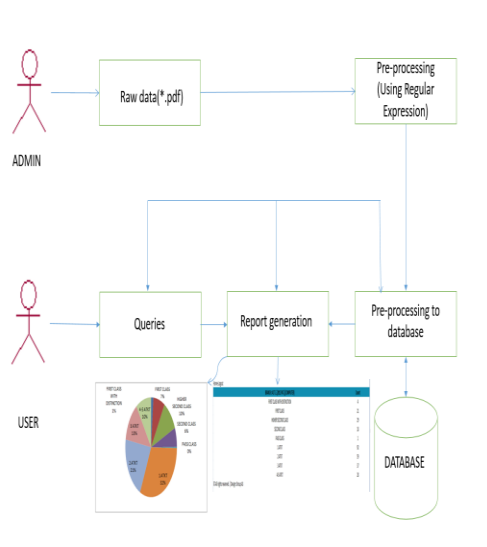


Figure 1. Architecture of the system

→ In this system client/user is only one is having who is having the genuine collaboration with the structure by means of uploading the PDF file to system and one more small part is there for the user to fire the different quires.

→ Admin accept the input as PDF file admin not any human being it's an automated supervisor for the system.

**3.1 The system architecture is mainly consist of 3 modules:**

1. PDF Uploading And Preprocessing on PDF file

2. Preprocessed data to Database
3. Database to reports

**3.1.1 PDF Uploading & Preprocessing on PDF file:** Here in this component text format of the PDF is provided as input, preprocessor (regex API from) removes the jobless data. So we can say that preprocessor is a state which styles easier to knob data by applying some predefined rules to the text format.

**3.2.2 Preprocessed data to Database:** Afterward preprocessing is completed the preprocessed manuscript is now stored in database by tuple prearrangement.

**3.2.3 Database to Reports:** User fervors quires for generation of reports with the help of the preprocessed data in database the report generation component collects the data from the database and generates the different as per compulsory by the user they may be in chart or Static/Dynamic format.

### 3.2 Results:

In this section different final result assessments of the system are shown before and after processing the result file and also the generated output file that are the dissimilar formats of reports are shown here.

**3.2.1 Home Page:** The home page contains of login and signing in, where the user records able to access the software and do their registration through this page.

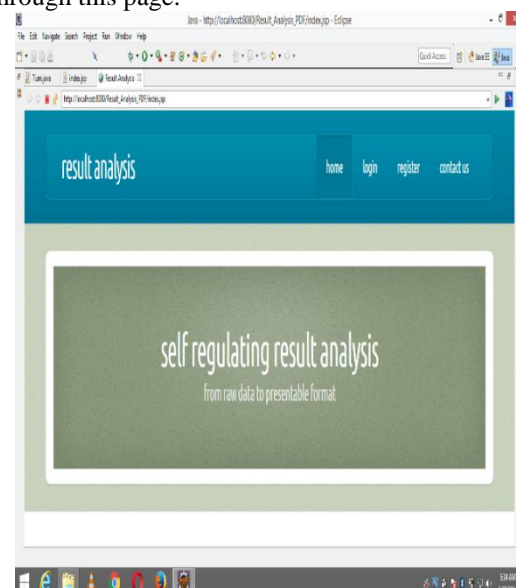


Figure 2. Home page of the system

**3.2.2 Registration Page:** The registration page consists of operator personal data like email id and password.

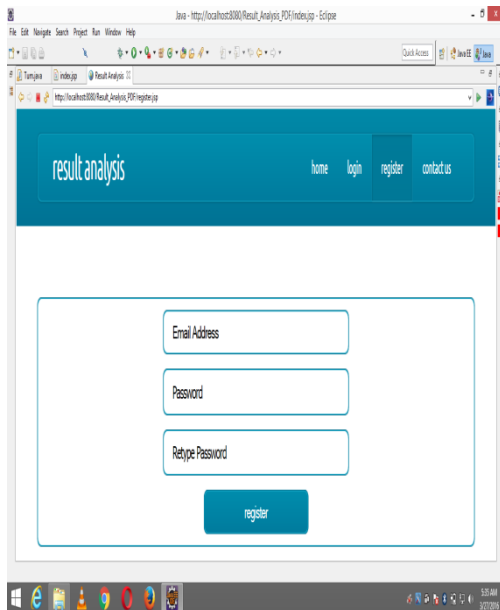


Figure 3. Registration page of system

**3.2.3 Login Page:** Here the user will login to the system using his/her email id and the password with which he/she has registered on the system.

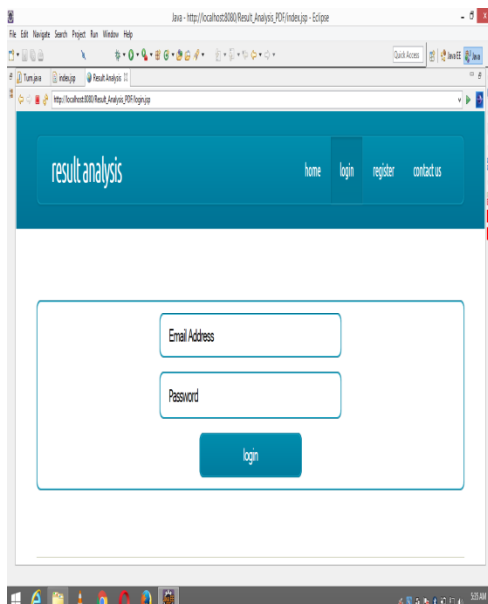


Figure 4. Login page of the system

**3.2.3 Inputting Students Result:** Here the path of the result pdf is quantified and is uploaded by snapping on the submit button.

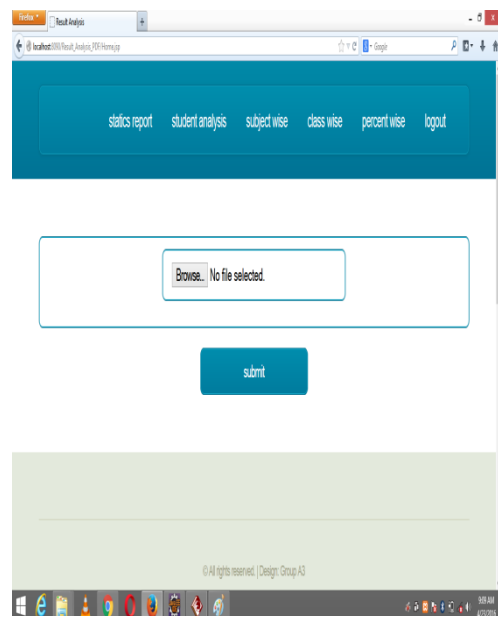


Figure 5. Input of the system

**3.2.4 Report Statics View:** Here complete statics of the report is demonstrated on the screen and further it can be export to any other format such PDF file.

BRANCH:41TE(DIP)(COMPUTER)	Count
FIRST CLASS WITH DISTINCTION	4
FIRST CLASS	21
HIGHER SECOND CLASS	29
SECOND CLASS	18
PASS CLASS	1
1 ATKT	92
2 ATKT	59
3 ATKT	37
4+5 ATKT	28

Figure 6. Report view of the system

### 3.2.5 Class Wise Report View:

Report For G.H.Risson College of Engg & Mgt  
 Batch: BRANCH: 4TE(DIPLOMA) (COMPUTER)  
 Roll: FIRST CLASS  
 Sem: 5  
 Exam Year: WIP 2015  
 Course Year: 2010 COURSE  
 Course: TE

PRN	Name	Roll
71222080	SHARIN RAJAMUKUTAR	865
71222084	RAJIT DASHRATHA REDDI	863
71222086	CHANDRA KUMAR	866
71222088	PAWANE PRAJANANESWAR	843
71222092	CHANDRA KUMAR	850
71222094	RAJESH KUMAR	855
71222096	SHRIKANTH VARMA	852
71222098	SHANU CHALUJAN	812
71222100	SHANU CHALUJAN	811

Figure 7. Class wise report view of the system

### 3.2.6 Subject Wise Report View:

Report For G.H.Risson College of Engg & Mgt  
 Batch: BRANCH: 4TE(DIPLOMA) (COMPUTER)  
 Roll: 5  
 Exam Year: WIP 2015  
 Course Year: 2010 COURSE  
 Course: TE

Subject	Attempted	Passed	% Passed	Min	Max	Avg
THEORY OF COMPUT (TH)	106	106	99.76	15	46	33
OPERATING SYSTEMS (TH)	106	102	97.96	28	53	32
COMPA WRESSEM (TH)	106	105	99.05	11	56	31
DATA WRESSEM (TH)	106	103	94.12	11	46	32
COMPORE LAB APP (TH)	106	103	98.24	11	57	31
PROF CONVA DESK PRO (TH)	106	103	94.95	13	47	33
EMBEDDED SP SYSTEMS (TH)	106	105	94.95	17	53	31
COMPUTER NETWORKS (TH)	106	103	94.95	28	51	34
SOFTWARE ENGINEERING (TH)	106	106	100.00	12	54	32
3DC SOFTWARE APP (TH)	106	101	95.97	21	48	32

Figure 8. Subject wise report view of the system

**3.3 Input Format:** These are the input documents functioned on. The main input documents in this idea is the pdf file uploaded by user, student's information, restructured result, from which the course credit units, course codes, student's registration number, etc., will be supplied. The keyboard will be used as the main input device.

**3.4 Output Format** In view of the system, the display will be used as the main output devices. The output documents will be the statement of results on the inputs made.

## 4. System Implementations

The simplicity of the programming language used in the progress of any system makes the whole development progression less tasking, which is a very important feature of software development.

### 4.1 Choice of Programming Language

The choice of a programming language to use when developing a software program is vigorous in the development process of any software program. The kind of programming language you use is reliant on the platform the software is envisioned for, and the kind of users matter a lot too. The proposed system is intended to be accessible to course advisers in the university. The following are the programming language we have chosen for the development of the proposed system:

**4.2.1 Java Programming Language:** Java is a software design language. It allows programmers to write Computer commands using English based commands, instead of having to write in numeric enigmas. It is known as a high-level language because it can be read and written easily by humans. Like gush, Java has a set of rules that determine how the instructions are inscribed. These rules are known as its composition. Once a program has been inscribed, the high level commands are interpreted into numeric codes that processors can understand and execute.

**4.2.2 MYSQL:** SQL is a special-purpose programming linguistic designed for supervision data held in a relational Database management system (RDBMS). MySQL is a popular choice of database for use in web presentation, and is a central module of the widely used LAMP, which is an acronym for "Linux, Apache, MySQL, perl/php/python. "Free- software" —open source project that requires a full-featured database management system often used MySQL.

**4.2 Recommendation:** The software enterprise if effectively executed will solve the problems related with manual processing of results by putting in place a well-organized computer based result processing system. It is suggested for application in universities which involvement difficulties with the computation of student result. This software is subject to change and very much essential for other institutions to embrace it and implement it into their own system.

## 5. Acknowledgment

We here by wish to take this prospect to express our appreciation to our teachers and networks and all who have helped toward the accomplishment of our project. We also like to give thanks to our Guide Mrs. Poonam Gupta for serving us and guiding us throughout our endeavor. We are very grateful to our teaching staff for guiding us all over the extent of the degree. They were very helpful to us, as and when we required their help. We are also actual grateful to non-teaching staff to support us in the research laboratory in numerous ways.

## 6. CONCLUSION AND FUTURE SCOPE

### 6.1 Conclusion

Hence a tactic is made to make such a self-regulating result analysis from data to presentable data base. Which is an inventiveness towards investigating results that is offered as raw data. This project would have capability to analyze student's weaknesses, fortes, performance, job features, etc. on basis of results history. This would also help to diminish the burden of generating different reports from given data by just manual analysis. This desktop application can be directly be used for training and placement data generation based on different criticisms. From a proper analysis of positive points and constraints on the component, it can be safely concluded that the product is a extremely efficient GUI based constituent. This application is working properly and meeting to all user requirements. This component can be easily plugged in many other systems.

**6.2Future scope:** Now the industrialized System is a web based organization, it gives all the student details. In the future the results can be directly printed, and this functionality can be made available to the user. This can also be improved by giving the user more services such as collective calculation etc.

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