



A

PROJECT DESIGN REPORT ON

“UNIVERSITY RESULT LEDGER SHEET ANALYSIS”

SUBMITTED TO THE UNIVERSITY PUNYASHLOK AHYADEVI HOLKAR SOLAPUR
UNIVERSITY, IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF
THE DEGREE OF
BACHELOR OF ENGINEERING

IN
COMPUTER SCIENCE AND ENGINEERING

SUBMITTED BY

Mr. Nageshkumar R Mhetre	Roll no. 44
Mr. Sandeep J Posham	Roll no.45
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Mr. Sadguru N Katakdhond	Roll no.47

UNDER THE GUIDANCE OF

Prof. G.T. Gurme



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
N.B. NAVALE SINHGAD COLLEGE OF ENGINEERING
UNIVERSITY OF SOLAPUR**

2020-2021



Certificate

This is to certify that the project design report entitles

“University Result Ledger Sheet Analysis”

is submitted by

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Roll no.44

Mr. Sandeep J Posham

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is a bonafide work carried out by above students under the supervision of Prof. G.T. Gurme and it is submitted towards the fulfillment of the requirement of Punyashlok Ahilyadevi Holkar Solapur University, Solapur, for the award of the degree of Bachelor of Engineering (Computer Science and Engineering) during academic year 2020-2021.

(Prof. G.T. Gurme)
Guide
Department of CSE

(Prof. A. A Phatak)
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Department of CSE

(Dr. S. D. Navale)
Principal,
N. B. Navale Sinhgad College of Engineering, Solapur

Place: Solapur
Date:

DECLARATION

We hereby declare that the work embodied in this Project Dissertation Report entitled as “**Covid--19 Data Prediction and Analysis**” is carried out by us in partial fulfillment of the degree BE(Computer Science and Engineering) from N. B. Navale Sinhgad college of engineering, Solapur and we have not submitted the same to any other University/Institute for the award of any other degree.

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Goal makes us to do work. Vision is more important than goal which makes us to do work in the best way to make work equally the best. Thanks to Principal, Dr. S.D. Navale for his support and vision.

We also thank all the CSE department staff members for their extended support and valuable guidance.

Thank You,

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ABSTRACT

The traditional way used by universities or colleges to analyze the performance of students is time consuming and inconvenient. So we need a new approach to analyze student's overall performance. To analyze the student's data (marks) the data should be in particular format on which we can perform analysis.

The purpose of this project is to provide an easy way that can help to analyze result of each student. Generally universities declare the results in PDF format. The analysis of data in PDF file format become difficult, because it needs a manual way for analysis. Manual way is always very time consuming and sometimes need to prepare a new Excel file by manually entering data from PDF to Excel file.

For an educational institute analysis of student's data is very important for continuous growth of students. Analysis of data becomes easier in Excel spread sheet. So this program transform the data of PDF file to Excel spread sheet, So further analysis on data will become easy.

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INTRODUCTION

Literature Survey:-

PDF is a versatile document format, but it can be difficult to read and edit it. To easily extract a table or edit text in a spreadsheet format, you can convert PDF to editable Excel spreadsheets. There are few applications or online PDF to Excel converters, but these applications convert the whole PDF into Excel. Many of the times PDF has some irrelevant data that also gets converted to Excel.

To perform analysis the data must be in appropriate format with required relevant data.

An Excel/CSV file stores the data in tabular form that helps analysts to analyze data without any difficulty. On the other hand, these things cannot be performed on PDF. Traditionally, data analysis is performed on data in Excel/CSV, but there is not a reliable way available to get PDF data into Excel.

Problem Statement:-

To find an efficient way to provide the PDF result data in tabular format and compare the performance of students by analyzing the data.

Scope and Objective

Objective:-

The purpose of this data prediction and analysis is to take the system of patient record, medicine and disease to such a level that there won't be any difficulty for management or government to look after.

Scope:-

- This web site will help doctors to predict the ratio of positive cases and to take decision which will tweak the results.

METHODOLOGY

- University declares the result which is in the format of ledger sheet. If staff wants to analyze the result then it'll be difficult because the result is in the pdf format.
- So in our project we are making the process of analysis easy.
- But we need data in tubular form like Excel/CSV to do analysis, so we're converting that pdf file into Excel/CSV file so the user can analyze result of each student.
- We're doing this project using python language and using ide as anaconda jupyter. Python has libraries that helps to convert data from one file format to another. We're currently using PyPDF2 and Numpy libraries for our project.
- PyPDF2 is used for reading the data from pdf file and Numpy is used for working with arrays and lists that we are using for analysis.
- At the beginning we take input file which is in the pdf format and we read all the data included in that file using PyPDF2 library.
- Then we extract the only data which we required and store it in another file, after that we convert the data in the file in tables and there we do our final step as analysis
- In that we analyze student data such as marks gained by student in each Subject, Students Percentage/SGPA, Overall Marks, etc.

SYSTEM DESIGN

Analysis Model

DFD Level 0:-

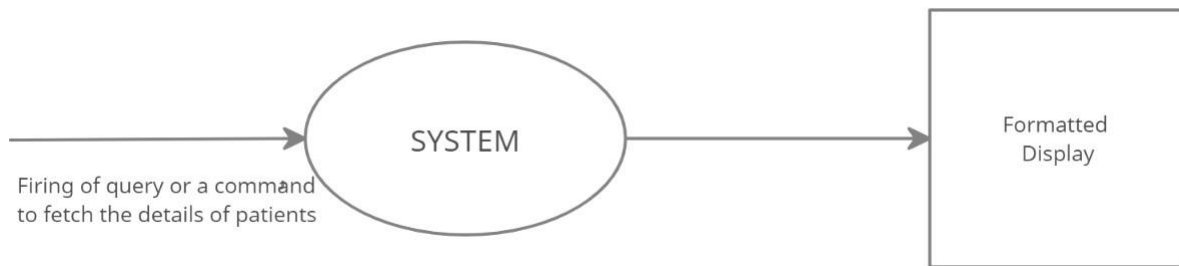


Fig:- DFD Level 0

DFD Level 1:-

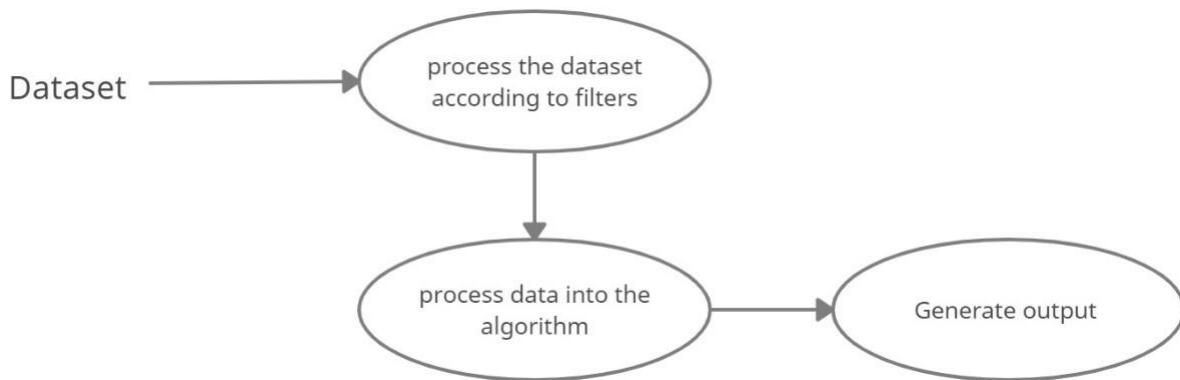


Fig:- DFD Level 1

UML Diagram

Use case Diagram:-

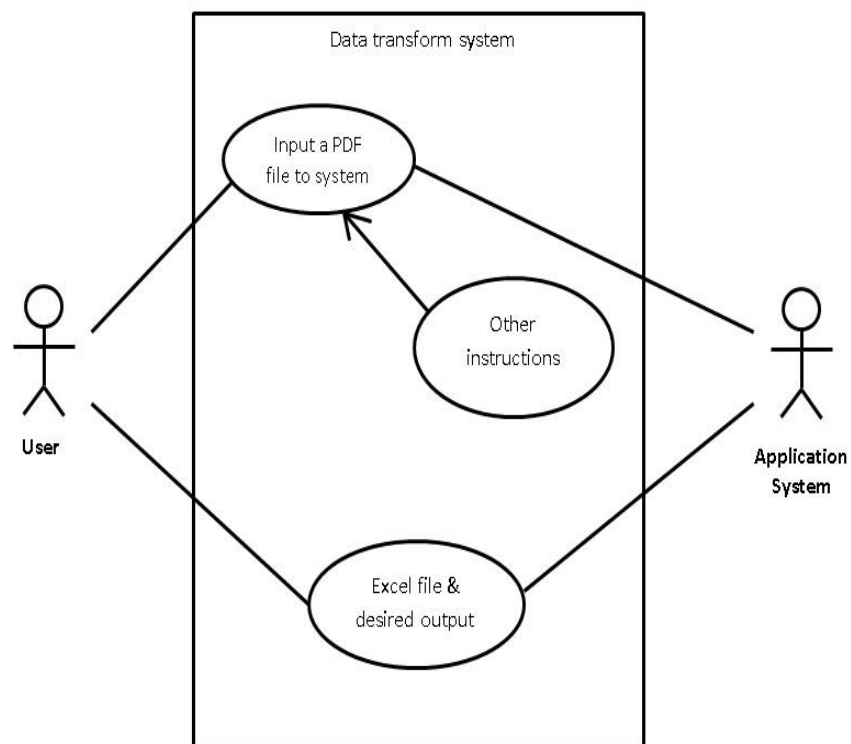


Fig:- Use Case Diagram

Sequence Diagram:-

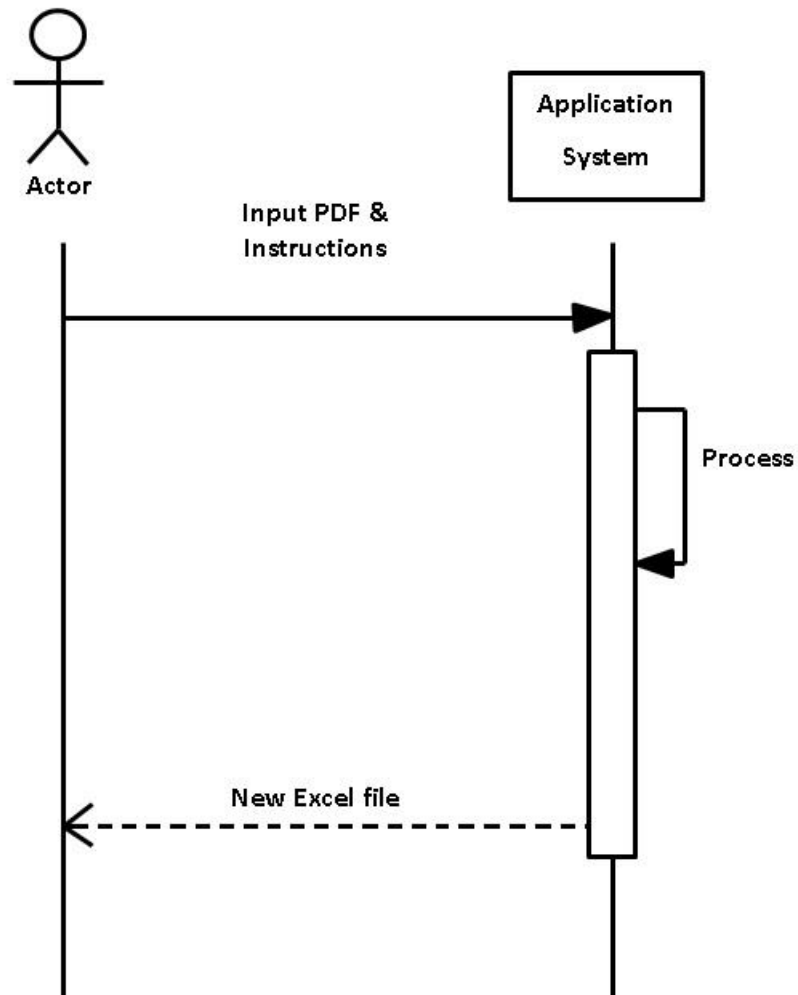


Fig:- Sequence Diagra

REQUIREMENT SPECIFICATION

Hardware Requirement:-

- **RAM:-** 1 GB or more
- **CPU:-** PENTIUM 4 or above

Software Requirement:-

- **Operating System :-** Windows / Linux
- **Developing Tool :-** Python 3.0, Pycharm/Anaconda
- **Libraries :-** PyPDF2, Numpy

TESTING STRATEGY

Testing

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs.

Software testing can be stated as the process of validating and verifying that a computer program/application:

- ◆ Meets the requirements that guided its design and development,
- ◆ Works as expected,
- ◆ Can be implemented with the same characteristics.

Black Box & White Box Testing

Software testing methods are traditionally divided into white and Black box testing. These two approaches are used to describe the point of view that a test engineer takes when designing test cases.

Black Box Testing

Black-Box testing treats the software as a “black box”, examining functionality without any knowledge of internal implementation. The tester is only aware of what the software is supposed to do, not how it does-it. We have done testing of all the modules of our website whether all the web pages are redirecting correctly.

White Box Testing

White-Box testing tests internal structures or workings of a program, as opposed to the functionality exposed to the end-user. In white-Box testing an internal perspective of the system, as well as programming skills, are used to design test cases. We tested coding and internal working of website. It includes database connectivity, password encryption.

1. Unit Testing:

Unit testing is a software development process in which the smallest testable parts of an application, called units, are individually and independently scrutinized for proper operation. The goal of unit testing is to isolate each part of the program and show that the individual parts are correct.

2. Integration Testing:

Integration testing, also known as integration and testing (I&T), is a software development Process Which program units are combined and tested as groups in multiple ways. In this context, a unit is defined as the smallest testable part of an application.

3. System Testing:

Testing the behavior of the whole software/system as defined in software requirements specification (SRS) is known as system testing, its main focus is to verify that the customer requirements are fulfilled.

By combining all the modules, we satisfied the user requirements by displaying reports as per user requirements.

4. Validation Testing:

Validation testing is testing where tester performed functional and non-functional testing. Here functional testing includes Unit Testing (UT), Integration Testing (IT) and System Testing (ST), and non-functional testing includes User acceptance testing (UAT).

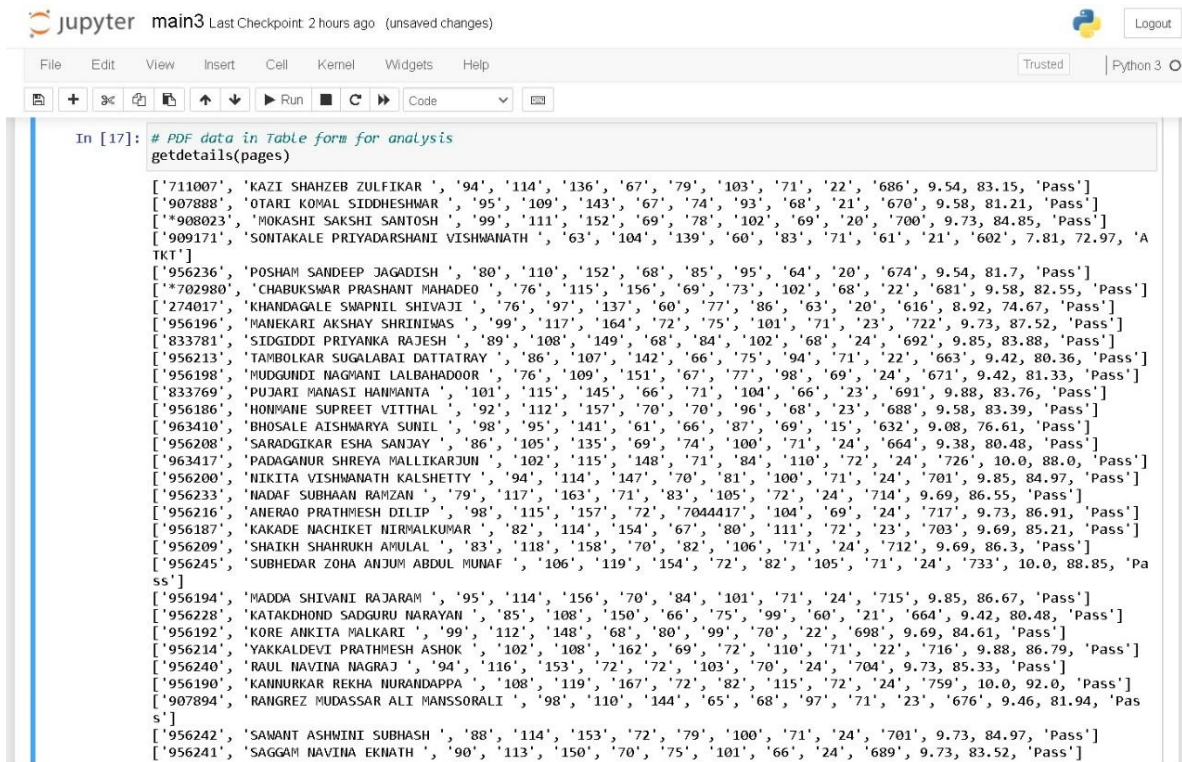
Validation testing is also known as dynamic testing, where we are ensuring that "we have developed the product right." And it also checks that the software meets the business needs of the client.

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Fig :- Input PDF Format

ESE ISE ICA POB Tot																	ESE ISE ICA POB Tot																				
AM	Min	Min	Cbt	Min	Cbt	Min	Cbt	Min	Cbt	Gr	GP	EGP	Sts	Rsk	Code	AM	Min	Min	Cbt	Min	Cbt	Min	Cbt	Min	Cbt	Gr	GP	EGP	Sts	Rsk	Code						
Seat No: 1726354 PRN: 2017032500263549 ELIG: E Statement No: 6034393 College Code: NMSUCOE 245 Name: ANEJOA PRATHESH DILIP (M/F) (N/A) (N/A)																																					
7044411	ITW	128	146	112	129	10	123	---	---	125	---	198	---	---	P E,C	7044411	---	---	---	---	---	---	---	---	---	---	---	125	---	198	IA+	9.00	36.00	P E,C			
7044412	ITW	128	167	112	125	---	---	---	---	125	---	192	---	---	P E,C	7044412	PR	---	---	---	---	---	---	---	---	---	---	125	---	123	---	---	---	P E,C			
7044413	---	---	---	---	---	---	---	---	---	125	---	1115	IO	10.00	40.00	P E,C	7044413	ITW	128	160	---	---	12	126	---	---	---	---	---	125	---	186	---	---	P E,C		
7044413	IFR	---	---	---	---	---	---	10	123	120	148	---	---	---	P E,C	7044413	---	---	---	---	---	---	---	---	---	---	---	---	125	---	1157	IO	10.00	150.00	P E,C		
7044414	ITW	---	---	---	---	---	---	10	124	---	---	---	---	---	P E,C	7044414	PR	---	---	---	---	---	---	---	---	---	---	---	120	148	---	---	---	P E,C			
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B.E. Sem-2 Total Credit: 26.00 EGP: 253.00 SGPA: 9.73 Status: Pass																																					
T.E. (Seat No: 1726354 Exam Event: Mar-2020) Total Credit: 54.00 EGP: 472.00 SGPA: 9.74 Status: Pass Grade: --																																					
S.E. (Seat No: 807907 Exam Event: Mar-2019) Total Credit: 50.00 EGP: 432.00 SGPA: 9.64 Status: Pass Grade: --																																					
FE (Seat No: 956216 Exam Event: Mar-2018) Total Credit: 51.00 EGP: 435.00 SGPA: 9.53 Status: Pass Grade: --																																					
Grand Total: 717/825 (Seven Hundred and Seventeen) Percentage: 86.91 ICA Marks: NA (Balance Marks: Nil) Total Credits Earned: 26.00 Total Earned Grade Points: 253.00 GPA/SGPA: 9.73 Status: Pass CGPA: -- Final Grade: --																																					
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704441-3	---	---	---	---	---	---	---	---	---	125	---	113	IO	10.00	40.00	P E,C	7044415	PR	---	---	---	---	---	---	---	---	---	---	---	---	125	---	172	---	---	P E,C	
7044415	---	---	---	---	---	---	---	---	---	175	---	172	IO	10.00	25.00	P E,C	7044416	PR	---	---	---	---	---	---	---	---	---	---	---	---	125	---	123	---	---	P E,C	
7044416	---	---	---	---	---	---	---	---	---	125	---	123	IO	10.00	10.00	P E,C	7044416	PR	---	---	---	---	---	---	---	---	---	---	---	---	125	---	124	---	---	P E,C	
B.E. Sem-2 Total Credit: 26.00 EGP: 252.00 SGPA: 9.69 Status: Pass																																					
T.E. (Seat No: 1726354 Exam Event: Mar-2020) Total Credit: 54.00 EGP: 475.00 SGPA: 9.80 Status: Pass Grade: --																																					
S.E. (Seat No: 807995 Exam Event: Mar-2019) Total Credit: 50.00 EGP: 435.00 SGPA: 9.70 Status: Pass Grade: --																																					
FE (Seat No: 956187 Exam Event: Mar-2018) Total Credit: 51.00 EGP: 480.00 SGPA: 9.41 Status: Pass Grade: --																																					
Grand Total: 703/825 (Seven Hundred and Three) Percentage: 85.21 ICA Marks: NA (Balance Marks: Nil) Total Credits Earned: 26.00 Total Earned Grade Points: 252.00 GPA/SGPA: 9.69 Status: Pass CGPA: -- Final Grade: --																																					

Output:-



```

In [17]: # PDF data in Table form for analysis
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s']
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```

Fig: Output of program

Final Output:-

output - Notepad							
File Edit Format View Help							
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956190	KANNURKAR REKHA NURANDAPPA	108	119	167	759	10	92 Pass
956245	SUBHEDAR ZOHA ANJUM ABDUL MUNAF	106	119	154	733	10	88.85 Pass
956197	MOLE ANISHA SURESH	106	99	160	702	9.58	85.09 Pass
963417	PADAGANUR SHREYA MALLIKARJUN	102	115	148	726	10	88 Pass
956214	YAKKALDEVI PRATHMESH ASHOK	102	108	162	716	9.88	86.79 Pass
956180	ARKAL ROHAN PRABHAKAR	102	114	154	703	9.88	85.21 Pass
833769	PUJARI MANASI HANMANTA	101	115	145	691	9.88	83.76 Pass
956204	POTDAR KIRAN CHIDANAND	101	114	153	698	9.73	84.61 Pass
907938	EKKALDEVI TEJASWINI SHRIKANT	101	116	156	720	10	87.27 Pass
956203	PAWAR NIDHI CHANDANSINGH	100	110	152	694	9.73	84.12 Pass
907906	SHANKU POOJA BALAJI	100	114	161	726	10	88 Pass
*908023	MOKASHI SAKSHI SANTOSH	99	111	152	700	9.73	84.85 Pass
956192	KORE ANKITA MALKARI	99	112	148	698	9.69	84.61 Pass
956215	ABUTE SWARAJ SUNIL	99	108	155	710	9.85	86.06 Pass
956222	GURAV YASH SURESH	99	117	151	714	9.73	86.55 Pass
956196	MANEKARI AKSHAY SHRINIWAS	99	117	164	722	9.73	87.52 Pass
956216	ANERAO PRATHMESH DILIP	98	115	157	717	9.73	86.91 Pass
963410	BHOSALE AISHWARYA SUNIL	98	95	141	632	9.08	76.61 Pass
907894	RANGREZ MUDASSAR ALI MANSSORALI	98	110	144	676	9.46	81.94 Pass
956202	PATIL SAHARSH SURYAKANT	98	108	159	708	9.73	85.82 Pass
907935	SAYYED SUMAYYA GOUSEPAK	98	106	149	698	9.69	84.61 Pass
907909	MOHITE PRATIKSHA SANJAY	98	114	155	702	9.73	85.09 Pass
956219	DYAWARKONDA LATA SUBHASH	96	110	154	712	9.73	86.3 Pass
907899	PATIL NAMRATA SANJAY	96	111	153	700	9.73	84.85 Pass
*907933	MASHALKAR SUDARSHAN ANIL	96	116	153	693	9.58	84 Pass
655102	KUMBHAR GANESH GURULING	96	104	145	661	9.46	80.12 Pass
907888	OTARI KOMAL SIDDHESHWAR	95	109	143	670	9.58	81.21 Pass
956223	INGALE NAMRATA RAJKUMAR	95	107	142	680	9.73	82.42 Pass
956194	MADDA SHIVANI RAJARAM	95	114	156	715	9.85	86.67 Pass
833738	KAMBLE VINAYAK BABA	94	114	160	698	9.73	84.61 Pass
956221	GULLAPALLI SHRIKANT GANESH	94	108	156	703	9.85	85.21 Pass
956200	NIKITA VISHWANATH KALSHETTY	94	114	147	701	9.85	84.97 Pass
711007	KAZI SHAHZEB ZULFIKAR	94	114	136	686	9.54	83.15 Pass
956240	RAUL NAVINA NAGRAJ	94	116	153	704	9.73	85.33 Pass
963422	VIJAPURE NEHA MALLINATH	93	113	147	697	9.69	84.48 Pass
907913	CHOUGULE RAJASHRI SHRIKRUSHNA	93	107	141	673	9.73	81.58 Pass
951418	PATEL SAITARUN VENKATESHWARRAO	92	113	163	718	9.73	87.03 Pass
956186	HONMANE SUPREET VITTHAL	92	112	157	688	9.58	83.39 Pass
833723	BAHIRJE DIPTI KEDARNATH	92	104	142	675	9.69	81.82 Pass
*958351	POMAJI PALLAVI ASHOK	91	103	141	646	9.42	78.3 Pass
907893	GAJGHATE MAYUR RAJARAM	91	116	159	717	9.85	86.91 Pass
956241	SAGGAM NAVINA EKNATH	90	113	150	689	9.73	83.52 Pass
907891	YANGANDUL LAXMI SHRINIWAS	90	105	146	682	9.69	82.67 Pass
956211	SOREGAONKAR VEDIKA VENKATESH	89	115	150	703	9.85	85.21 Pass
833781	SIDGIDDI PRIYANKA RAJESH	89	108	149	692	9.85	83.88 Pass
956242	SAWANT ASHWINI SUBHASH	88	114	153	701	9.73	84.97 Pass
956238	RAJMANE AISHWARYA RAJSHEKHAR	87	110	150	683	9.58	82.79 Pass
824048	NARAYANKAR VITTHAL SUBHASH	87	113	151	673	9.58	81.58 Pass
907886	PEERZADE FIRDOS LIYAKAT ALI	86	114	151	709	9.69	85.94 Pass
956208	SARADGIKAR ESHA SANJAY	86	105	135	664	9.38	80.48 Pass
956213	TAMBOLKAR SUGALABAI DATTATRAY	86	107	142	663	9.42	80.36 Pass
956228	KATAKDHOND SADGURU NARAYAN	85	108	150	664	9.42	80.48 Pass
907916	GAIKWAD RUTUJA NAGNATH	84	110	141	663	9.42	80.36 Pass
956209	SHAIKH SHAHRUKH AMULAL	83	118	158	712	9.69	86.3 Pass
907931	KSHIRSAGAR SONALI ANILKUMAR	83	113	152	688	9.58	83.39 Pass
956232	MUNALE SHIVANI RAMLING	82	113	146	672	9.42	81.45 Pass
956187	KAKADE NACHIKET NIRMALKUMAR	82	114	154	703	9.69	85.21 Pass
956236	POSHAM SANDEEP JAGADISH	80	110	152	674	9.54	81.7 Pass
*907879	PULLI AKSHAY RAJKUMAR	79	112	153	663	9.42	80.36 Pass
956233	NADAF SUBHAAN RAMZAN	79	117	163	714	9.69	86.55 Pass
907896	MHETRE NAGESHKUMAR RAJENDRAKUMAR	78	113	146	681	9.58	82.55 Pass
907889	PATIL KRISHNA SANJAY	78	109	128	647	9.38	78.42 Pass
907904	KAMBLE PANKAJ ARUN	77	114	154	679	9.58	82.3 Pass
274017	KHANDAGALE SWAPNIL SHIVAJI	76	97	137	616	8.92	74.67 Pass
833740	KARADE SHWETA VINOD	76	97	131	589	8.65	71.39 Pass
956198	MUDGUNDI NAGMANI LALBAHADOOR	76	109	151	671	9.42	81.33 Pass
*907880	CHADIKSHAR PRASHANT MAHADEO	76	115	156	681	9.58	82.55 Pass

CONCLUSION

In this project the final output provides the data based on analysis of students data available in PDF ledger sheet.

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