



Ver. Rel. No.	Release Date	Prepared. By	Reviewed By	To be Approved	Remarks/Revision Details
1	01/03/2021	Name/PS No	Name/PS No	Module Owner Name	Comments
2	01/03/2021	Ankit Kumar Yadav (99003648)	Name/PS No	NA	NA
3	01/03/2021	Manu Nadar (99003711)	Name/PS No	NA	NA
4	01/03/2021	Omprakash harod (99003713)	Name/PS No	NA	NA

GENESIS - Learning Outcome and Mini-project Summary Report



Contents

Contents	3
Miniproject -1 [Team/Individual]	4
Module/s	4
Topic and Subtopics	4
Objectives & Requirements	4
Design	4
Test Plan	8
IMPLEMENTATION SUMMARY	8
Video Summary	9
Git Link	9
Git Dashboard	9
Summary	9
Individual Contribution & Highlights	9
Summary	9
Challenges faced and how were they overcome	9
Future Scope (If applicable)	9
Miniproject -2 [Team/Individual]	10
Module/s	10
Topic and Subtopics	10
Objectives & Requirements	10
Design	10
Test Plan	10
IMPLEMENTATION SUMMARY	10
Git Link	10
Git Dashboard	10
Summary	10
Individual Contribution & Highlights	10
Summary	10
Challenges faced and how were they overcome	10



Miniproject -1 [Team]

Module/s

Modules linked to the mini project (Ex –python, SDLC and TDLC etc)

Topic and Subtopics

"Briefly list the core topics and subtopics being implemented and how" We used python language to implement this project

In python, we use the various libraries are: -

- 1) **Pandas** (Python library used for Data Manipulation and Analysis)
- 2) **Matplotlib** (Library used to create Static and Interactive Visualization)
- 3) **Pygal** (API that enables us to build scalar vector graphs in variety of styles)
- 4) **Smtplib** (Used to handle sending email or routing email between the server)
- 5) Openpyxl (Used to read and write the data from the Excel sheets)
- 6) **Pytest** (Framework that allows to write test scripts using Python programming)
- 6) **Pylint** (Used to Check Code Quality & Bugs and Error)

Objectives & Requirements

Objectives:-

The primary objective of project is to create a desktop based application, where We need to do a detailed analysis of Pre-survey, Post survey, Pre-test marks, and post-test marks of every student, after analysis then we generated the spider report chart so that the Faculty can track the performance of every student, as well as every student can also track their own performance and Send auto generated email to every student along With faculty.

Introduction: -

We are doing data analysis for determining the performance of students and analyzing the field of improvement where the student needs to be Improved also determining the strength or weakness of the whole class in Different Modules.



Requirements: -

High level Requirements:

Requirement Id	Description
Student Score	Score of a student learning module
Average student	Average score of students in a module
Class max	Highest score of class in a module
Class min	Lowest score of class in a module
Student max	Maximum score of a student
Student min	Minimum score of a student

Lower-level Requirements:-

Requirement Id	Description
Top five	Top five score in a class
Bottom five	Bottom five score in a class

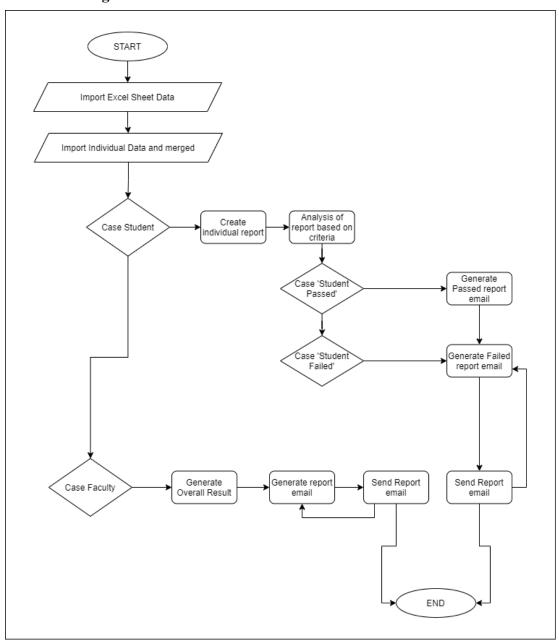


Design

"System Level and subsystem level UMLs - Structural and Behavioral Diagrams"

Structural Diagram

Data Flow Diagrams: -





High level Class Diagram: -

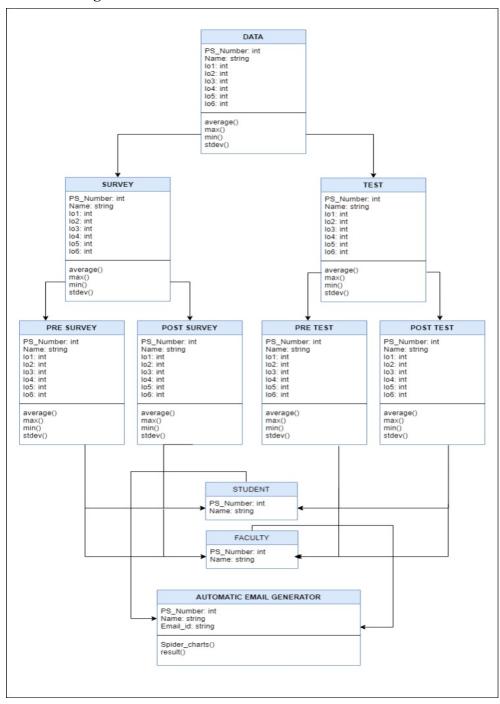


Figure 5 Structural UML (High level diagram)



Low Level Class Diagram

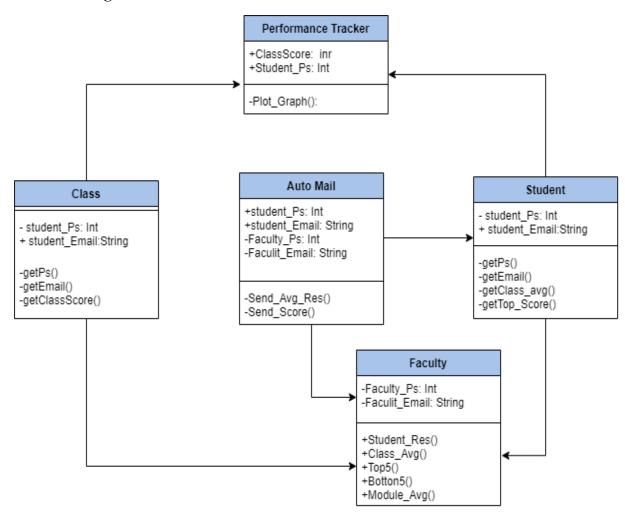


Figure 6 Structural UML (Low level diagram)



Behavioral Uml Diagram:-

High Level Use Case Diagram

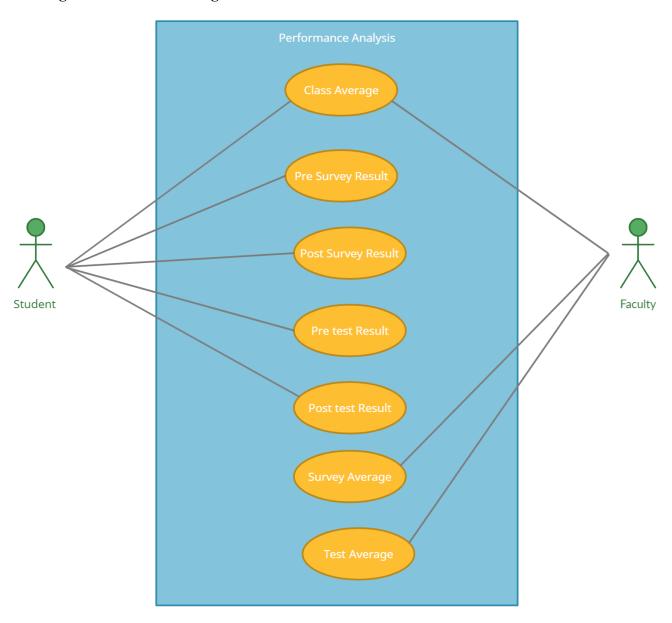


Figure 7 Behavioural UML (Low level Diagram)



Test Plan

(1) Low Level Test Plan

TEST ID	TEST	TEST INPUT	EXPECTED	ACTUAL
	DESCRIPTION		INPUT	OUTPUT
L_1	To check	Empty value in the	Prompt	Consider
	whether none of	input module	message	missing value as
	the fields should		mandatory field	0
	be empty		missing	
L_2	The length of	Value entered in the PS	Prompt	Don't fetch
	the PS number	number like 990037 1	message PS	the value of that
	should be of		number accept	PS number
	predefined size		only integer	
	and does not		values white	
	contain any		space not	
	white space or		allowed	
	special character			
	(integer value			
T 0	only)	N. 1. 400 C. 11	7	D 4.1 11
L_3	E-mail ID	Nadarm433@gail.com	Prompt	Don't be able
	should be in the		message invalid	to send the
	perfect format		E-mail ID	autogenerated
	i.e.			E-mail
T 4	xyz@gmail.com	ng .	D (D 1/1 11
L_4	None of the	PS number: -	Prompt	Don't be able
	PS number are	99003789	message	to make a choice
	same in the same	99003789	duplicate values	
T 6	excel sheet	E 11D	not allowed	D 1/1 11
L_5	None of the	E-mail ID: -	Prompt	Don't be able
	two students will	Nadarm433@gmail.com	message	to make a choice
	have the same		duplicate values	
	E-mail ID		not allowed	

Figure 8 Low level Test plans



(2) High Level Test Plan

TEST ID	TEST DESCRIPTION	TEST INPUT	EXPECTED INPUT	ACTUAL OUTPUT
H_1	Check for the statically analysis that the all the operations should be performed perfectly i.e. average, maximum, minimum	Input module with all the necessary inputs	Statistical analysis for all inputs	Results according to given operations
H_2	To check whether the E-mail is triggered to all the stakeholders	Input module with all the E-mail ID's of the stakeholders	E-mail triggered to all the stakeholders present in the module	Mail not triggered to the students only send the mail to the stakeholders
H_3	To check if the results are not more than the input rows	Mark values of all the students	Output rows are always same as the input rows	Representation of the student ID's after input module integration

Figure 9 High level Test plans

Implementation Summary

"Section focused toward's implementation aspects. Here it is only core summary while all the details are in the Git Repo

Note: The GitHub private repo should be documented (Readme.md files at each folder level) Ensure code quality and clean code and description practices

Mandatory: To add the GitHub user - stepin654321 as a contributor to the repo"

Video Summary

"Please upload a short video on the repo for the walkthrough of the project (Team/Individual) less than 7min and less than 30MB File Size. Start is the Standard opening slide with title of mini project + Team members followed by the walkthrough "

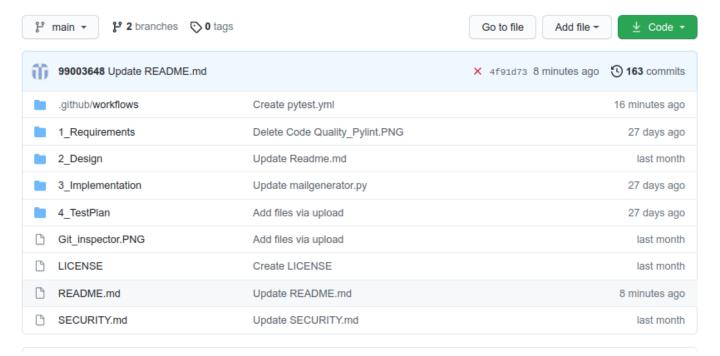


Git Link

Git Link: - https://github.com/99003713/AppliedSDLC_C3

Git Dashboard

"Screenshot of the GitHub Repo page with all the badges and summary"



Summary

"Brief summary on the overall implementation"



Git inspector summary

"In linux install gitinspector and Run the command – gitinspector -H -l -m -T -w -r --grading --format=html > gitinsp.html and upload the same to your repo and paste the snapshot in the report"

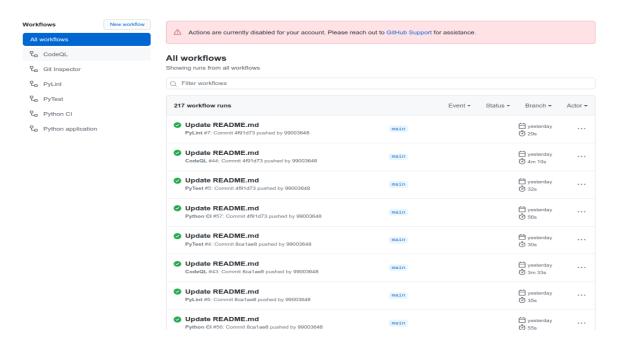
and up	load the same to your repo and	paste the snap	snot in the report		
19	======= Git Inspect	or =====	====		
20	Statistical information	for the rep	pository 'Applie	dSDLC_C3' was gat	hered on
21	2021/03/01.				
22	The following historical	l commit in	formation, by au	thor, was found:	
23					
24	Author	Commits	Insertions	Deletions	% of changes
25	99003648	1	123	Θ	13.67
26	99003711	12	167	69	26.22
27	99003713	15	97	8	11.67
28	ANKIT KUMAR YADAV	26	190	246	48.44
29					
30	Below are the number of	rows from (each author that	have survived ar	nd are still
31	intact in the current re	evision:			
32					
33	Author	Rows	Stability	Age 9	in comments
34	99003711	75	44.9	0.0	0.00
35	99003713	53	54.6	0.1	0.00
36	ANKIT KUMAR YADAV	105	55.3	0.3	0.00
37					
38	The following history to	imeline has	been gathered f	rom the repositor	ry:
39					
40	Author	2021W08	2021W09		
41	99003648	++++++			
42	99003711	-+++	-+++		
43	99003713	++	+		
44	ANKIT KUMAR YADAV -	++++	+++		
45	Modified Rows:	414	486		
46					



Build

"Brief on outcome of the build and setup done"

After analysis of marks than we generate Spider chart of every student and also send auto generated e-mail to every student along with faculty member



Performance score of Python Advanced Inbox x

test.scored@gmail.com

to me 🔻

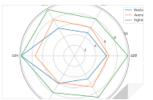
Dear ankit sahu,

Please find growth report Below Your Pre survey Score is: 12 Your Pre Assessment Score is: 255 Your Post Survey Score is: 38 Your Post Assessment Score is: 360

4 Attachments







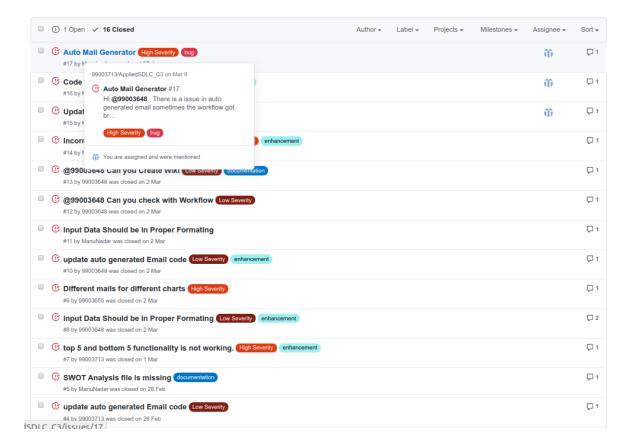




Code quality and Issues or Bug Tracking

"Brief on code quality

Errors and warnings flagged (issues created) and fixed"

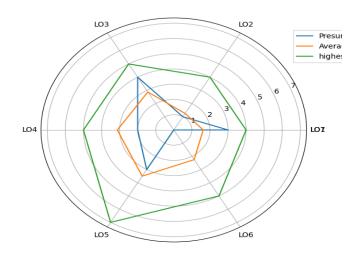




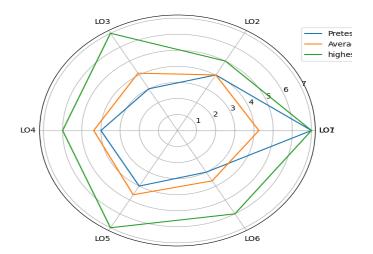
Unit Testing

"Unit Testing setup alignment with test plans and summary of outcome"

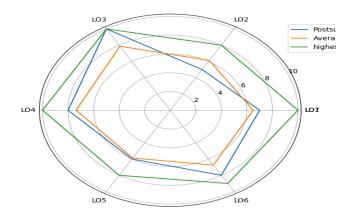
PS Number: 99003713 - Pre Survey



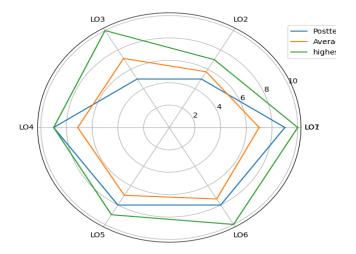
PS Number: 99003713 - Pre Test



PS Number: 99003713 - Post Survey



PS Number: 99003713 - Post Test





Individual Contribution & Highlights

"Brief on Contributions by you for Team"

PS No	Name	Features
99003713	Omparkash Harod	Fetching data using Pandas, Integration, Requirement
99003648	Ankit Kumar Yadav	Email Automation, Swot,4W1H
99003711	Manu Nader	Data Visualization, Class UML Diagram, Test Plan

Summary

"Key Highlights not covered till now, Softskills and technical side"

Challenges faced and how were they overcome

"Brief and crisp"

- We faced challenges when we implemented the Workflow.
- We faced challenges in Integration of main code with email automation.
- We faced challenges in git inspector
- We faced challenges in make file

Future Scope (If applicable)



Miniproject -2 [Team/Individual]

TA /	r	1	1		/
IV	ഥ	ď	11	le/	S

Topic and Subtopics

Objectives & Requirements

Design

Test Plan

Implementation Summary

Git Link

Git Dashboard

Summary

Git inspector summary

Build

Code quality

Unit Testing

Issues

Individual Contribution & Highlights

Summary

Challenges faced and how were they overcome

