# Ex. No 2 SaaS Implementation – Student Mark Sheet Generation

<u>Aim</u>: To implement program on SaaS to Create a spread sheet to generate a mark sheet for student progress report.

### **Procedure**:

1. Create a new folder "Mark Sheet" in Google Drive.



2. Open the "Mark Sheet" folder and Right Click to create a blank document.

New folder		
File upload		
Folder upload		
Google Docs	>	Blank document
Google Sheets	>	Biank document
Google Slides	>	From a template
Google Forms	>	
More	>	Drop files here

3. Name the Document "Mark Sheet" and Design Mark Sheet Template in the document.

Mark Sheet S Contract Tools Extension	ons Help <u>Laste</u>	dit was seconds ago				🔒 Share	8
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	Subject Code	Subject Name	Marks				
	401	Computer Architecture	< <mark1>&gt;</mark1>				
	402	Web Design and Programming	< <mark2>&gt;</mark2>				
	403	Object Oriented Programming with Java	< <mark3>&gt;</mark3>				
	404	RDBMS	< <mark4>&gt;</mark4>				
	405	Web Design and Programming Practical	< <mark5>&gt;</mark5>				
	406	Java Programming Practical	< <mark6>&gt;</mark6>				
	407	RDBMS Practical	< <mark7>&gt;</mark7>				
		Total	< <total>&gt;</total>				

- **4.** Provide data to be filled from the Google Sheet within "<< >>".
- 5. Create a blank Google Form in the same folder.

Name 个		Owner
Mark Sheet		me
+ New folder		
File upload		
Folder upload	>	
Google Sheets	>	
Google Slides	>	
Google Forms	> Plar	ak form
More		ik loffi

**6.** Name the Form as "Marks Entry".

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Questions Responses Settings				
Marks Entry B I U GD X Form description			_	(+) (+)  + (-)
Email * Valid email This form is collecting emails. Change settings				
Untitled Question Option 1				

7. Change the settings of the Google Form to collect email Address. Go to Settings>Responses set Collect email addresses to true.

	Questions	Responses	Settings			
Settings						
Make this a quiz Assign point values, set answ	vers, and automa	atically provide	feedback			
Responses Manage how responses are o	collected and pro	otected			^	
Collect email address	es				•	
Send responders a co	Send responders a copy of their response					
Allow response editin Responses can be chang	<b>g</b> ged after being s	ubmitted				

8. Design the Google Form to Collect Student Name, Register Number, Subject Marks and Total.

Name	[	-	- :	Short answer		•
Short answer text						
	Ĺ		1	Required	•	:
Reg No *						
Short answer text						
* Computer Architecture Mark						
Short answer text						
Web Design and Programming Mark *						
Short answer text						
Object Oriented Programming with Java *						
Short answer text						
RDBMS Mark *						
Short answer text						
Web Design and Programming Practical Mark *						
Short answer text						
: Java Programming Practical Mark *	::					
Short answer text						

RDBMS Practical Mark * Short answer text		
Total Marks Short answer text	æ	- Short answer +
		🔟 Required 💶

9. Mark all the Google Form Entry as Required.

**10.** Go to Responses and create spread sheet to store the collected student marks details.

	Questions Responses Settings
0 respo	nses
	Waiting for responses
	Select response destination X
0 resp	Create a new spreadsheet Marks Entry (Responses)
	Select existing spreadsheet
	Cancel Create

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1	Timestamp	Email Address	Student Name	Reg No	Computer Architecture	M: Web Design and Program	m Object Oriented Progra	mr RDBMS Mark	Web De	
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### **11.** Go to Extensions Menu > Add-Ons > Get Add-Ons.

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10 11 12											-
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16 17									The current window is too to properly display this sh	small eet.	
19									Consider resizing your bro window or adjusting froze rows and columns.	n	
	+ 🗉 Form	Responses 1 👻								Ę.	>

12. Install "Autocrat" Extension.



13. Allow Autocrat Permission to install the extension.



**14.** Go to Extensions Menu > Autocrat > Open.

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AppSheet     Open       Import Roster     Import Roster       Get User Key     Help	Stude		r Architecture M; Web Design and	d Program Object Oriented
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Import Roster Get User Key Help		民 Autocrat	► Open	
Get User Key Help			Import Roster	
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			Help	

## **15.** Add a New Job in Autocrat Extension.

AutoCrat		×
	No merge jobs set up yet	
	Click to begin	
	/ // //	
	NEW JOE	

# 16. Give a Job Name in Autocrat Menu and click next.

mark sneet				
1. Name your me	erge job			
Job name				
Mark Sheet				
*Give your job a useful r	name for easy reference			

**17.** Choose a Template to Create Mark Sheet. Select From Drive.

Г

A	utoCrat	×
	Mark Sheet	
	2. Choose template	
	New! Now you can choose Google Slides as a job template from Drive.	
C	From drive Ct ne example	
	No template selected yet	
	Currently selected template	
	Recently used templates	
	Help Guide Gancel SAVE Back Next	

 $\ensuremath{\textbf{18.}}$  Select the created word template and click next.

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19. Map Source data to template for Mark Sheet Creation and click next.

:	Mark Sheet 3. Map source da	ata to template		📎 10 unma	pped ta
	Merge tab	Form Responses 1 🗘 Header	r row 1	First data row 2	
	Standard 🌻	<< Name >> %	maps to column		¢
	Standard 🌻	<< Regno >>	maps to column		¢
	Standard 🌻	<< mark1 >>	maps to column		¢

**20.** Give Proper File Name Format and select file type as PDF and click next.

Mark Sheet
4. File settings
File name
< <student name="">&gt;_MarkSheet</student>
*Tell AutoCrat how to name each file it creates. You can use < <tags>&gt; aligned to merge sheet column headers to merge in source . data, only supported in multiple output mode.</tags>
Туре
Google Docs 💠
Google Docs
PDF node (classic mode) Single output mode

**21.** Choose destination folder to store pdf file in Google Drive and click next.

AutoCrat		×
Mark Sheet 5. Choose destination	folder(s)	Choose folder
Mark Shee	t	
		-
		-
	*All merged docs will go into these folders	
Help Guide	Cancel SAVE Back Next	

**22.** Skip the dynamic folder reference (optional) and click next.

**23.** Set merge condition as when Reg No is not null merge the documents.

Au	toCrat					×
	Mark Sheet					
	7. Set merge	condition (optional)			+ Add condition	
	Only merge a ro	w if:				
	Column	Reg No	\$	equals NOT NULL		
		*Only rows that meet	the r	have conditions will be merged		
		Enter a specific value, N	ULL	(empty) or NOT NULL (not empty)		
	Help Guide	Cancel	SA	/E Back Next		
	Trop Coldo				•	

**24.** Set Share Doc and send email as yes, Select Share doc as PDF, set Allow collaborators to reshare as no and enter <<Email Address>> tag in the response mail.

	8. Share docs & send emails	
	Share doc? ● Yes ◯ No	
	Share doc as	
	PDF \$	
▶	Allow collaborators to re-share	
	No      Yes	
	No Yes	
	*Only available for Google Apps accounts, not Gmail users	
	$\mathbf{x}$	
	10 <<	
	Help Guide Cancel SAVE Back Next	
	Help Guide Cancel SAVE Back Next	
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Au	Mark Sheet     Save     Back     Next       Address     Share docs & send emails       Image: State of the send emails       Im	
Au	Mark Sheet     Sake       8. Share docs & send emails       Image: Constraint of the send emails       Image: Constrated emails	

**25.** Select Run on form trigger as YES and Confirm. Save the Job.

AutoCrat			×
Mark Sheet			
9. Add/remove job triggers			
Run on form trigger Ves  No			
Run on time trigger Ves  No			
Help Guide	Cancel SAVE	Back	
AutoCrat			×
Enable form triggers?			×
You must anable triggers for	this project before you or	an add ono to this ich. C	onfirm?
fou must enable inggers for	this project before you ca		Drimitit ?
		Cancel	YES
Help Guide	Cancel SAVE	Back	
AutoCrat			×
Existing Jobs			
Mark Sheet	× 1	•	
Help Guide Manage triggers			NEW JOB

26. Preview the Google Form. Enter student details and submit the form to generate mark sheet.

ks Entry 🛅 📩 All change	is saved in Drive	ង	0	5	¢	Send	:	0
	Ouestions Responses Settings		Preview					
	Marks Entry							
	Form description							
1	Email *							
	Valid email							
	This form is collecting emails. Change settings			Œ				

## 27. Open the entered email id and check for the generated mark sheet.

	M Gmail	<b>Q</b> Search in mail	<b>₽</b> ⑦ �	
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☆	Starred	🗌 🟠 dnstnpt	Natarajasivan D Mark Sheet - Dear Natarajasivan D, Your 4th Sem mark Sheet is Attached.	7:00 PM
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D	Drafts			
~	More		Security alert - autoCrat was granted access to your Google Account disautpc@gmail.com If you did not grant	11:34 AM

### 28. Open the attached Mark Sheet to verify the details.

me: Natara gno: 124101 partment: C	Mark Sheet jasivan D computer Engineering / 4th Sem	
Subject Code	Subject Name	Marks
401	Computer Architecture	80
402	Web Design and Programming	80
403	Object Oriented Programming with Java	80
404	RDBMS	80
405	Web Design and Programming Practical	100
406	Java Programming Practical	100
407	RDBMS Practical	100
	Total	620

### Result:

Thus SaaS implementation for generation of mark sheet for student progress report using Google Sheet is completed and verified.