

# Salary Slip Generator Documentation

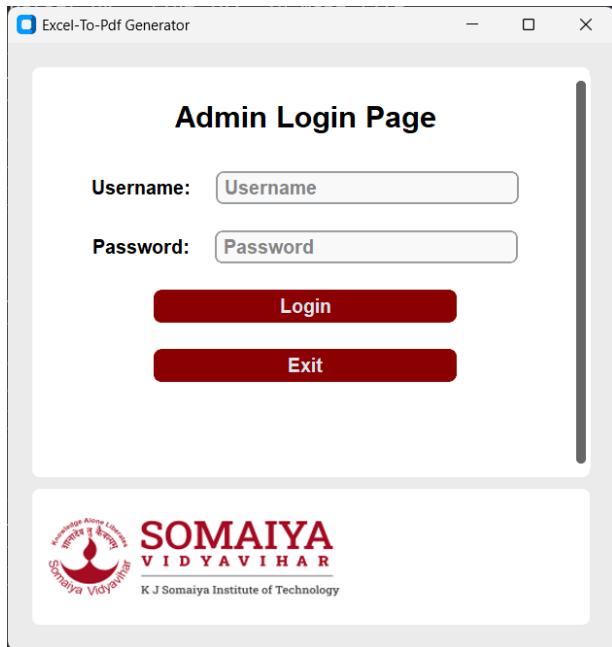
## Introduction:

The Salary Slip Generator is a desktop-based application designed to automate the process of generating, managing, and distributing employee salary slips. The system enables users to upload salary data through structured Excel files, store and manage records in a SQLITE database, and generate salary slip PDFs using customizable templates.

The application supports both single and bulk operations, allowing organizations to efficiently generate salary slips, preview employee data, and send salary slips to employees via email. Additionally, it provides a flexible template generation mechanism, enabling salary slip formats to be created and modified using predefined Excel structures mapped to HTML and JSON templates.

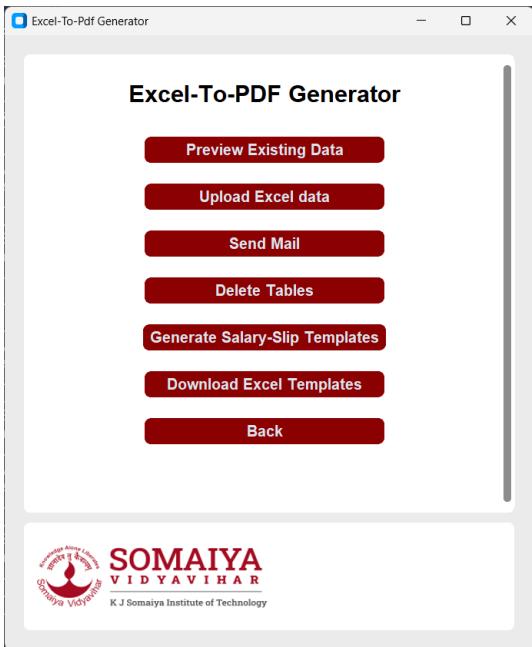
This documentation serves as a comprehensive user guide, explaining the functionality of each module, the required data formats, and best practices to ensure accurate salary slip generation and smooth system operation.

## I. Login Page



This is the login page. Enter the correct credentials to proceed.

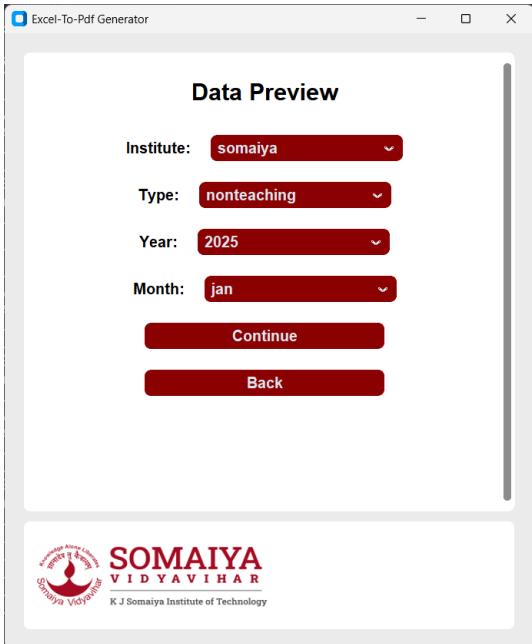
## II. Home Page



This is the Home page. From here you can navigate to the following sections:

- 1) **Preview Existing Data:** To view previously uploaded data.
- 2) **Upload Excel Data:** To upload new data.
- 3) **Send Mail:** To send salary slips via email.
- 4) **Delete Tables:** To delete a particular table from database.
- 5) **Generate Salary-Slip Templates:** To generate Salary-Slip templates from excel files (For templates structure, see the 'excel' folder present where 'App.exe' is present).
- 6) **Download Excel Templates:** To download excel templates that correspond to a given salary-slip template.

## III. Preview Existing Data / Data Preview



Choose a specific record from which employee data will be fetched

#### IV. Preview Existing Data / Data View

**Data View for Somaiya Nonteaching Jan/2025**

Enter Employee ID:

**Copy Row to Clipboard**

Choose Template HTML and Mapping JSON:

Template HTML: svv.html

Mapping JSON: svv.json

**Generate Single PDF**

**Bulk Print PDFs**

**Back**

Text Size of Sheet: 12

AADHAR CARD	ADD INCREMENT	AGP/GP	Basic Salary	Books and Periodicals	and Client Entertainment exp	CLA	DA	6% w.e.f JULY 2024	OF
863171248228	0	0	10000	0	0	300	4000	4000	At
499536467496	0	0	10000	0	0	300	4000	4000	At
717043736219	0	0	10000	0	0	300	4000	4000	At
448032085264	0	0	10000	0	0	300	4000	4000	At
442238653455	0	0	10000	0	0	300	4000	4000	At

Under Guidance of: Dr. Sarita Ambadekar and Dr. Abhijit Patil

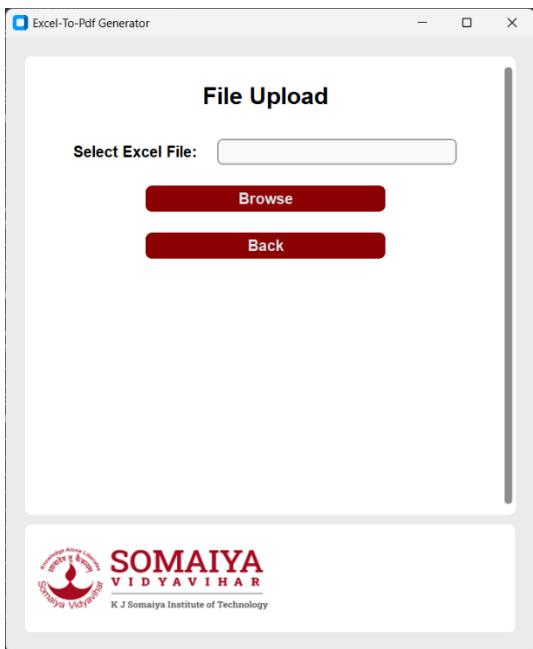
First developed by: Raj More, Pranav Lohar, Aryan Mandke

Department of Computer Engineering

This is the Data View Interface. Here you can do the following:

- 1) **Enter Employee ID:** Fetch result of an employee with corresponding HR EMP ID.
- 2) **Copy Row to Clipboard:** Copies the data of employee whose ID is entered in “Enter Employee ID” to clipboard. (Allowing for Copy-Paste Operation)
- 3) **Choose Template HTML and Mapping JSON:** Choose the template of salary slip. (Note: Ensure that the filename of Html and Json options match)
- 4) **Generate Single PDF:** Generate the salary-slip for the employee ID entered in ‘Enter Employee ID’ Field.
- 5) **Bulk Print PDFs:** Bulk print all the salary slips present in this record. (Note: All the generated pdfs will be stored in pdfs/[Institute]/[Type]/[Year]/[Month]. Here the various italicized words refers to the following values:
  - a. *Institute:* The institute option in Data Preview. Can be Somaiya or SVV.
  - b. *Type:* The type of employee. Can be Teaching, Non Teaching or Temporary for Somaiya Institute or SVV for SVV Institute.
  - c. *Year:* The year of the record.
  - d. *Month:* The month of the record.

## V. Upload Excel Data / File Upload



Choose a excel file to upload



If the chosen excel is password-protected, enter the password for the file

Excel-To-Pdf Generator

### File Upload

Select Excel File: C:/Users/RAJ/Desktop/Project/Excel-to-Pdf-Generator/sample\_data/05 SALARY SLF

**Browse**

Sheet Present: SSV HO SALARY AUG 2024

Row Change: 0

**Save to DB**

**Back**

Text Size of Sheet: 12

SOMAIYA VIDYAVIHAR	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5
SOMAIYA AYURVIHAR COMPLEX NEAR EVERARD NAGAR EASTERN EXPRESS HIGHWAY SION	nan	nan	nan	nan	nan
SVV STAFF SALARY FOR THE MONTH OF JUNE 2024	MHBAN0027929000	nan	nan	nan	nan
SR. NO	PF NO 7 Digit	CONE NO	MATE ID	PF No	PF DNA NO
1	MHBAN0027929000	8825000477	vishnu.jadhav@somaiya.edu	nan	10144925591
2	0010219	9702540997	dhruv@somaiya.edu	10219	100137194308
3	00002800	67283115	meha.palande@somaiya.edu	200	100637300848

Under Guidance of: Dr. Sarita Ambadekar and Dr. Abhijit Patil

First developed by: Raj More, Pranav Lohar, Aryan Mandke

Department of Computer Engineering

Once the file is loaded, you can see the following options:

- 1) **Sheet Present:** The current chosen sheet in the excel.
- 2) **Row Change:** Allows to choose the row from which data should be chosen. Useful if there are titles present and you want to skip some rows.
- 3) **Save to DB:** Once you have selected the sheet to upload, click here to proceed towards the next step.
- 4) **Text Size of Sheet:** Allows you to change the text size of the below table view of the chosen sheet.
- 5) **Table View of the Sheet:** Shows the entire data present in the sheet.

## VI. Upload Excel Data / Data Upload

Excel-To-Pdf Generator

### Data Upload

Please Enter Details about data

Institute: Somaiya

Type: Teaching

Month: Jan

Enter Year: Eg. 2024

**Create Table**

**Delete from DB**

**Back**

Text Size of Sheet: 12

SOMAIYA VIDYAVIHAR	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5
SOMAIYA AYURVIHAR COMPLEX NEAR EVERARD NAGAR EASTERN EXPRESS HIGHWAY SION	nan	nan	nan	nan	nan
SVV STAFF SALARY FOR THE MONTH OF JUNE 2024	MHBAN0027929000	nan	nan	nan	nan
SR. NO	PF NO 7 Digit	CONE NO	MATE ID	PF No	PF DNA NO
1	8825000477	vishnu.jadhav@somaiya.edu	nan	nan	10144925591
2	9702540997	dhruv@somaiya.edu	10219	100137194308	
3	67283115	meha.palande@somaiya.edu	200	100637300848	

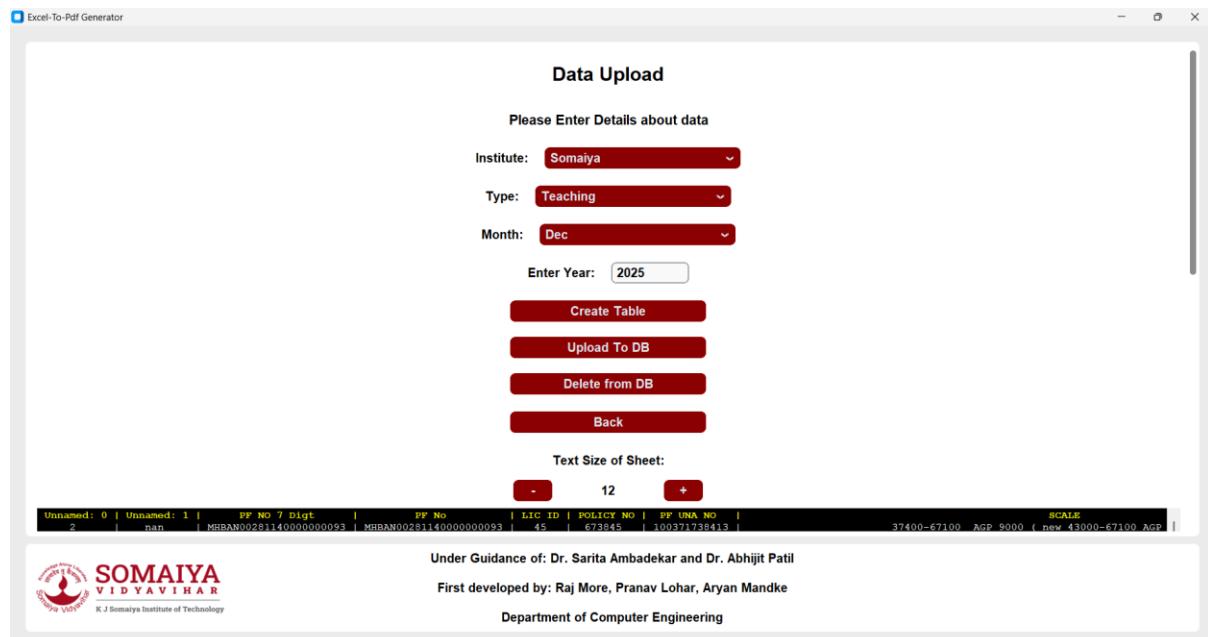
Under Guidance of: Dr. Sarita Ambadekar and Dr. Abhijit Patil

First developed by: Raj More, Pranav Lohar, Aryan Mandke

Department of Computer Engineering

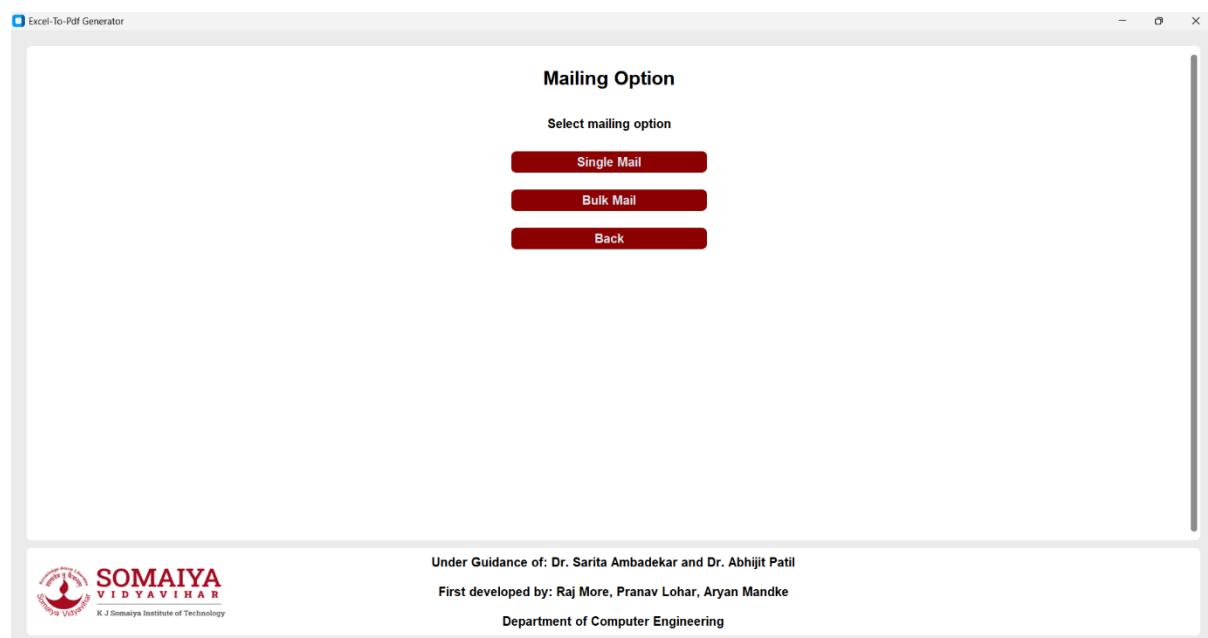
This is the Uploading Section. Choose the appropriate *Institute*, *Type*, *Month* and *Year*. After filling this, you have the following options:

- 1) **Create Table:** Generates a new table in database if it doesn't exist.
- 2) **Delete from DB:** Deletes the chosen table from database. This is used if the existing data and uploaded data have different columns (For example, there is a new column added in the data)



After clicking on **Create Table**, you can click on **Upload to DB** to upload the data into database.

## VII. Send Mail / Mailing Option



This section provides mailing options. Single Mail is used to send a single PDF, while **Bulk Mail** is used for bulk mailing of all PDFs.

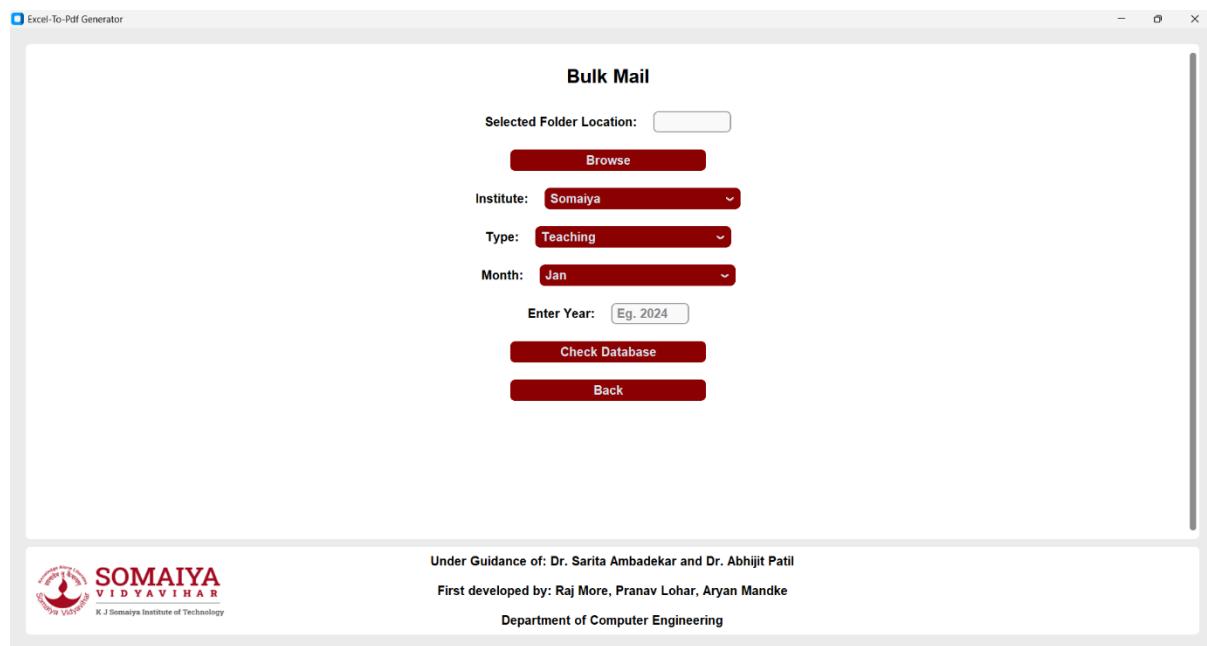
### VIII. Send Mail / Mailing Option / Single Mail

The screenshot shows the 'Single Mail' interface within a software application window titled 'Excel-To-Pdf Generator'. The main form has a light gray background with dark red buttons and input fields. At the top center is the title 'Single Mail'. Below it is a 'Selected PDF File:' field with a 'Browse' button. Underneath are dropdown menus for 'Institute' (set to 'Somaiya'), 'Type' (set to 'Teaching'), and 'Month' (set to 'Jan'). There are also input fields for 'Enter Year' (with placeholder 'Eg. 2024') and 'Enter Employee ID' (with placeholder 'Eg. 2200317'). An 'Enter Employee Email' field follows, with a placeholder 'Eg. sample@somaiya.edu'. At the bottom of the form are two buttons: 'Send Mail' (dark red) and 'Back' (lighter red). In the bottom left corner of the window, there is a logo for 'SOMAIYA VIDYAVIHAR' featuring a stylized lamp and the text 'K J Somaiya Institute of Technology'. The bottom right corner contains copyright and development information: 'Under Guidance of: Dr. Sarita Ambadekar and Dr. Abhijit Patil', 'First developed by: Raj More, Pranav Lohar, Aryan Mandke', and 'Department of Computer Engineering'.

This is the single mail option, used to mail a single pdf to a particular email. The following option are available:

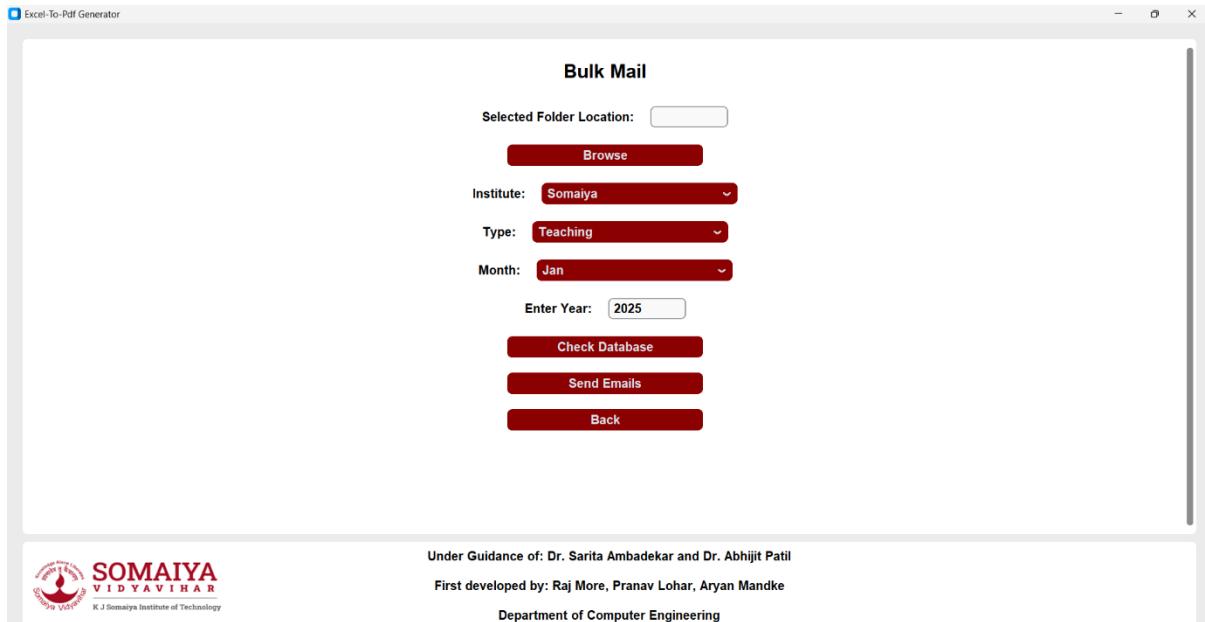
- 1) **Selected PDF File:** The pdf file to mail.
- 2) **Institute:** The institute option to be mentioned in email. Can be Somaiya or SVV.
- 3) **Type:** The type of employee to be mentioned in email. Can be Teaching, Non Teaching or Temporary for Somaiya *Institute* or SVV for SVV *Institute*.
- 4) **Month:** The month to be mentioned in email.
- 5) **Enter Year:** The year to be mentioned in email.
- 6) **Enter Employee ID:** The employee ID to be mentioned in email.
- 7) **Enter Employee Email:** The employee email address to which this email will be send to.

## IX. Send Mail / Mailing Option / Bulk Mail



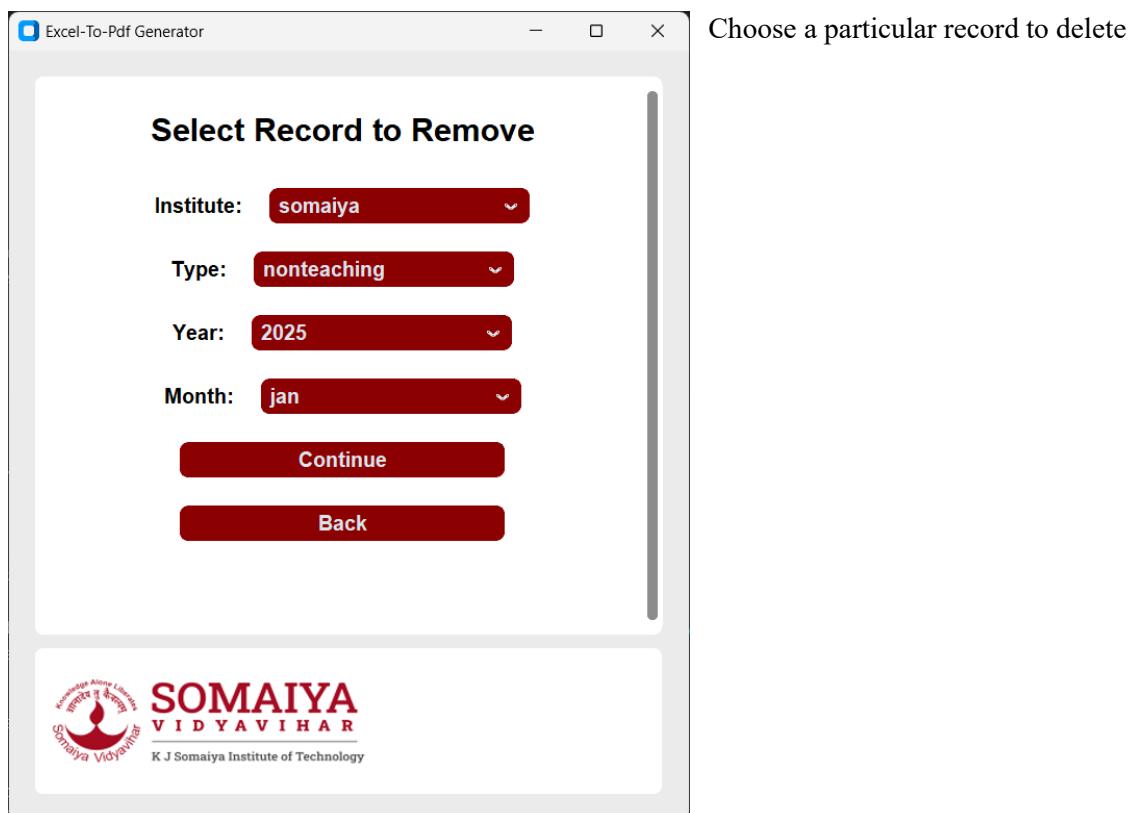
This is the bulk mail option, used to bulk mail pdfs to employee's email mentioned in the data. The following options are available:

- 1) **Selected Folder Location:** The folder with all the pdfs to be mailed.
- 2) **Institute:** The institute option to be mentioned in email. Can be Somaiya or SVV.
- 3) **Type:** The type of employee to be mentioned in email. Can be Teaching, Non Teaching or Temporary for Somaiya *Institute* or SVV *Institute*.
- 4) **Month:** The month to be mentioned in email.
- 5) **Enter Year:** The year to be mentioned in email.
- 6) **Check Database:** Checks whether or not, records exist matching the chosen institute, type, month and year.

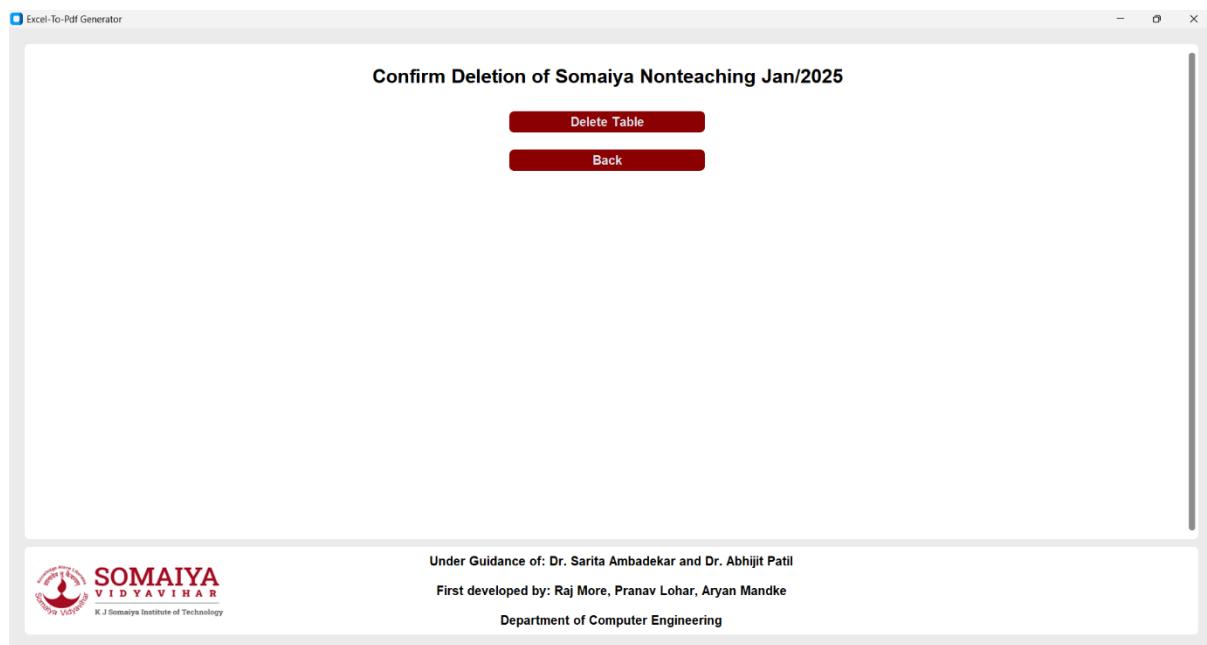


If the records are present, you can click the **Send Emails** to send the emails. (Note: You must wait for this email, closing the application will interrupt the mailing process).

## X. Delete Tables / Select Record to Remove

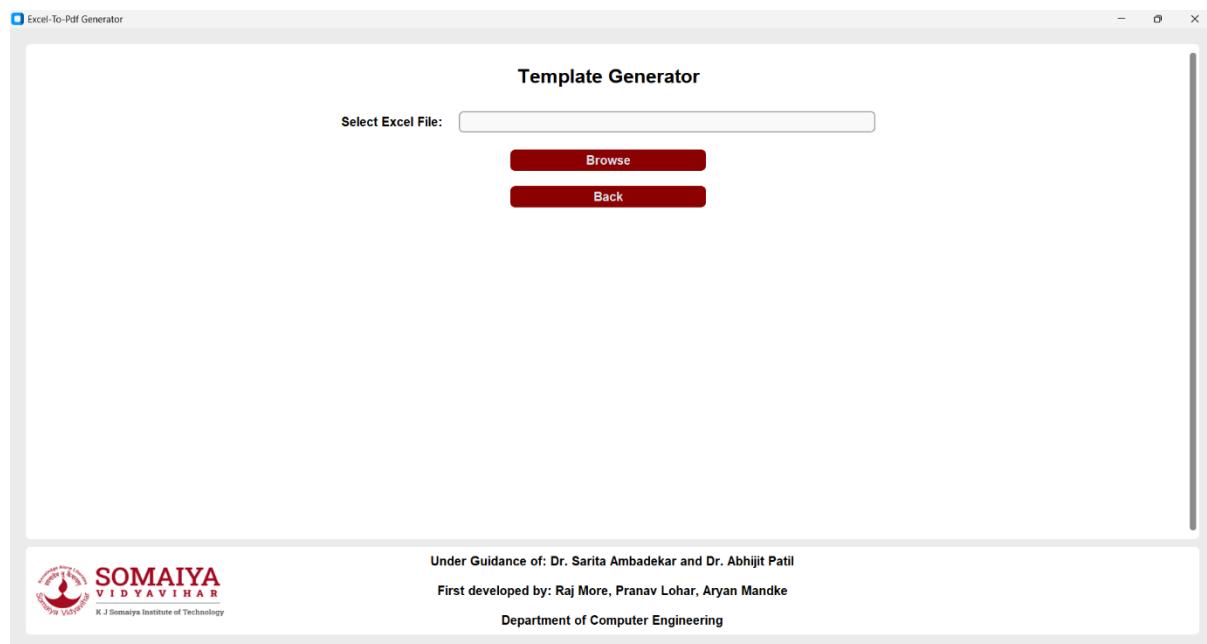


## XI. Delete Tables / Select Record to Remove / Delete Confirmation

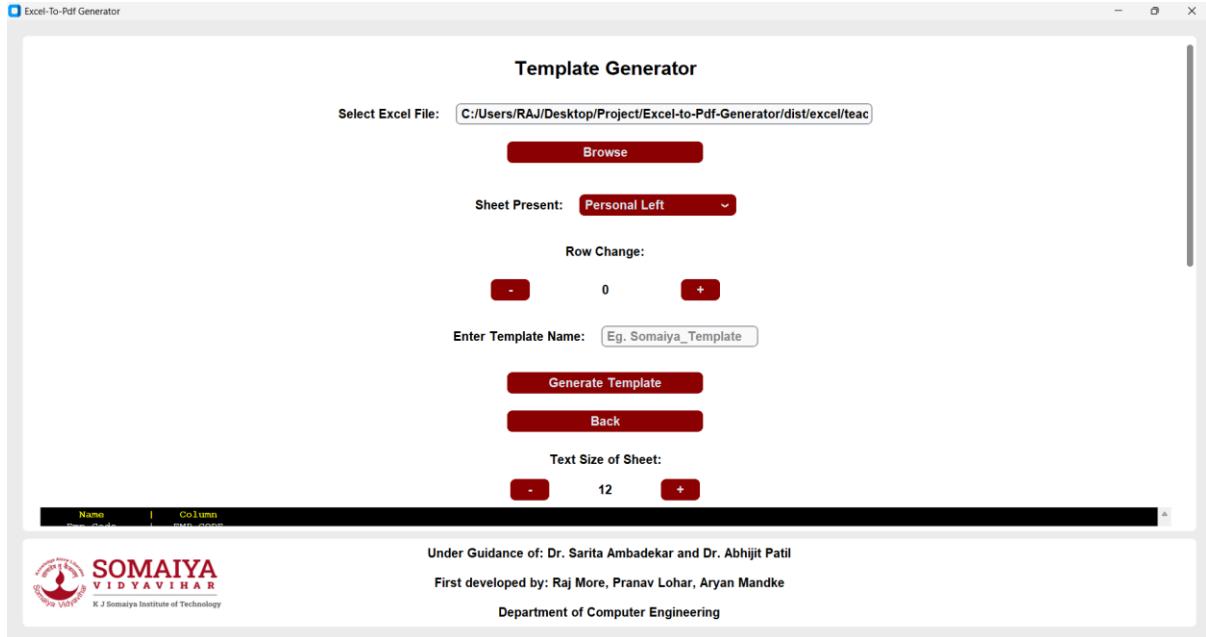


This is main interface to confirm deletion of record. This action should only be performed after taking a proper backup of the data.

## XII. Generate Salary-Slip Templates / Template Generator



This is the interface for template generator for salary-slip, this generates the HTML and JSON templates from predefined excel file (see 'excel' folder for the structure)



After the excel file is uploaded and the structure is valid, you will reach this interface. Enter the template name and click on **Generate Template** to make new salary slip template.

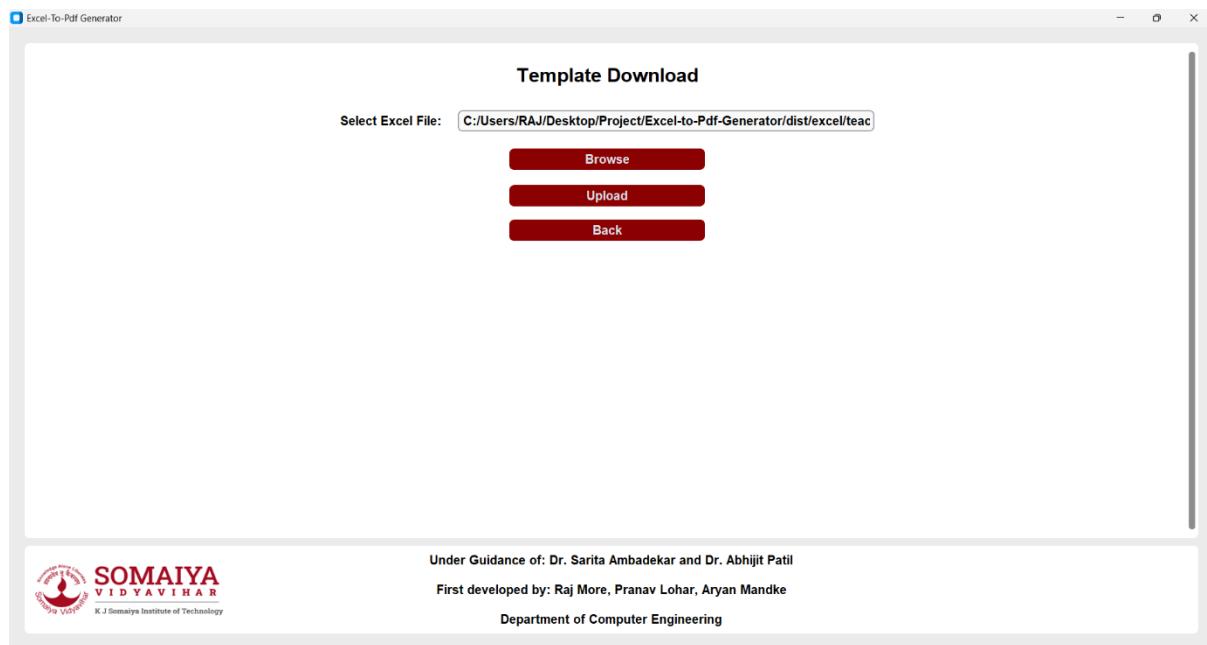
The excel file has the following structure:

- a) There are 6 sheets in the excel: *Personal Left*, *Personal Right*, *Earning*, *Deductions*, *Salary Left* and *Salary Right*,
- b) Each sheet has the following columns: *Name* (The heading that will be displayed in salary slip) and *Column* (The excel column from which data will be mapped)

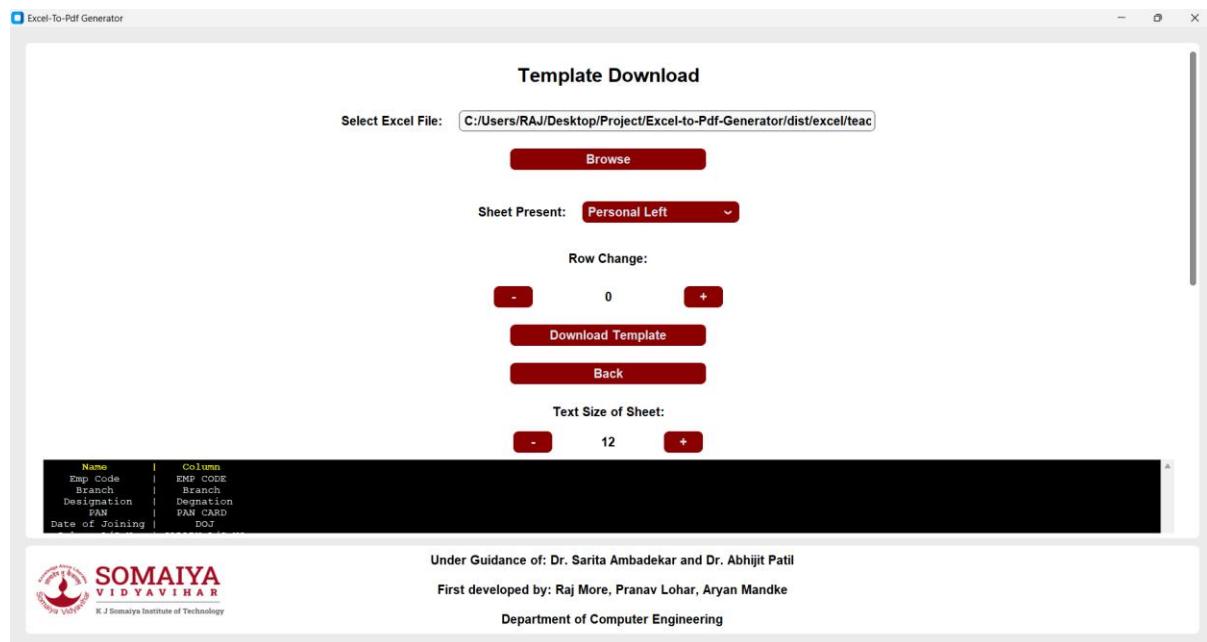
Payslip for the month of Jan 2025																																																			
<b>Personal Left</b>	<table border="1"> <tr><td>Emp Code:</td><td>NT0002</td></tr> <tr><td>Branch:</td><td>Sion</td></tr> <tr><td>Designation:</td><td>Attendant</td></tr> <tr><td>PAN:</td><td>BDPPS9129B</td></tr> <tr><td>Date of Joining:</td><td>01-08-2001</td></tr> <tr><td>Salary A/C No:</td><td>29010100286725</td></tr> </table>	Emp Code:	NT0002	Branch:	Sion	Designation:	Attendant	PAN:	BDPPS9129B	Date of Joining:	01-08-2001	Salary A/C No:	29010100286725																																						
Emp Code:	NT0002																																																		
Branch:	Sion																																																		
Designation:	Attendant																																																		
PAN:	BDPPS9129B																																																		
Date of Joining:	01-08-2001																																																		
Salary A/C No:	29010100286725																																																		
<b>Personal Right</b>	<table border="1"> <tr><td>Name:</td><td>Mahesh R Sawant</td></tr> <tr><td>Aadhar Card No:</td><td>863171248228</td></tr> <tr><td>PF No:</td><td>MHBAN0028114000000010</td></tr> <tr><td>UAN No:</td><td>-</td></tr> <tr><td>Scale:</td><td>5,200 - 20,200 GP 1,900</td></tr> <tr><td>Total Days Present:</td><td>31Days</td></tr> </table>	Name:	Mahesh R Sawant	Aadhar Card No:	863171248228	PF No:	MHBAN0028114000000010	UAN No:	-	Scale:	5,200 - 20,200 GP 1,900	Total Days Present:	31Days																																						
Name:	Mahesh R Sawant																																																		
Aadhar Card No:	863171248228																																																		
PF No:	MHBAN0028114000000010																																																		
UAN No:	-																																																		
Scale:	5,200 - 20,200 GP 1,900																																																		
Total Days Present:	31Days																																																		
<b>Earning</b>	<table border="1"> <tr><td colspan="2"><b>Earnings and Deductions</b></td></tr> <tr><td colspan="2"><b>Earnings</b></td></tr> <tr><td>Basic Pay:</td><td>10000</td></tr> <tr><td>Present Basic:</td><td>10000</td></tr> <tr><td>AGP / GP:</td><td>0</td></tr> <tr><td>DA:</td><td>-</td></tr> <tr><td>HRA:</td><td>600</td></tr> <tr><td>CLA:</td><td>300</td></tr> <tr><td>TA:</td><td>0</td></tr> <tr><td>Special Allowance:</td><td>0</td></tr> <tr><td>Washing Allowance:</td><td>-</td></tr> <tr><td>Arrears:</td><td>0</td></tr> <tr><td>Exam Remuneration / Others:</td><td>0</td></tr> <tr><td>Miscellaneous:</td><td>-</td></tr> <tr><td colspan="2"><b>Deductions</b></td></tr> <tr><td>Profession Tax:</td><td>200</td></tr> <tr><td>PF Amount:</td><td>-</td></tr> <tr><td>TDS:</td><td>0</td></tr> <tr><td>LIC:</td><td>0</td></tr> <tr><td>Personal Loan:</td><td>-</td></tr> <tr><td>Diwali Advance / Other:</td><td>-</td></tr> <tr><td>Staff Loan / Advance:</td><td>-</td></tr> <tr><td>Medical Policy / Advance:</td><td>-</td></tr> <tr><td>KJ Somaiya Credit Society Ltd:</td><td>3091</td></tr> <tr><td>Any Other Deduction:</td><td>0</td></tr> </table>	<b>Earnings and Deductions</b>		<b>Earnings</b>		Basic Pay:	10000	Present Basic:	10000	AGP / GP:	0	DA:	-	HRA:	600	CLA:	300	TA:	0	Special Allowance:	0	Washing Allowance:	-	Arrears:	0	Exam Remuneration / Others:	0	Miscellaneous:	-	<b>Deductions</b>		Profession Tax:	200	PF Amount:	-	TDS:	0	LIC:	0	Personal Loan:	-	Diwali Advance / Other:	-	Staff Loan / Advance:	-	Medical Policy / Advance:	-	KJ Somaiya Credit Society Ltd:	3091	Any Other Deduction:	0
<b>Earnings and Deductions</b>																																																			
<b>Earnings</b>																																																			
Basic Pay:	10000																																																		
Present Basic:	10000																																																		
AGP / GP:	0																																																		
DA:	-																																																		
HRA:	600																																																		
CLA:	300																																																		
TA:	0																																																		
Special Allowance:	0																																																		
Washing Allowance:	-																																																		
Arrears:	0																																																		
Exam Remuneration / Others:	0																																																		
Miscellaneous:	-																																																		
<b>Deductions</b>																																																			
Profession Tax:	200																																																		
PF Amount:	-																																																		
TDS:	0																																																		
LIC:	0																																																		
Personal Loan:	-																																																		
Diwali Advance / Other:	-																																																		
Staff Loan / Advance:	-																																																		
Medical Policy / Advance:	-																																																		
KJ Somaiya Credit Society Ltd:	3091																																																		
Any Other Deduction:	0																																																		
<b>Salary Left</b>	<table border="1"> <tr><td>Gross Salary:</td><td>20300</td></tr> <tr><td>Total Earnings:</td><td>13529</td></tr> <tr><td>Total Deductions:</td><td>6771</td></tr> </table>	Gross Salary:	20300	Total Earnings:	13529	Total Deductions:	6771																																												
Gross Salary:	20300																																																		
Total Earnings:	13529																																																		
Total Deductions:	6771																																																		
<b>Salary Right</b>																																																			

This is a computer-generated salary slip, hence signature is not required.

### XIII. Download Excel Templates / Template Download



This is the interface to use the excel templates to generate blank excel files with all columns mentioned in the template. You can use this to make a blank excel file with columns matching what the salary slip requires



Once excel is uploaded, click on download template to get the blank excel

	A	B
1	Name	Column
2	Emp Code	EMP CODE
3	Branch	Branch
4	Designation	Degnation
5	PAN	PAN CARD
6	Date of Joining	DOJ
7	Salary A/C No	SALARY A/C NO
8		
9		

Thus, you can convert the salary slip

template into the

Actual excel file required

