

Salary Slip Generator Documentation

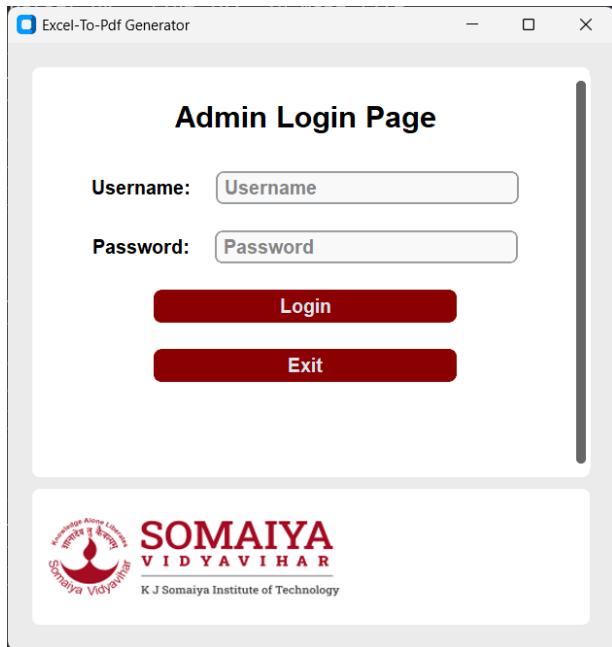
Introduction:

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 MySQL 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.

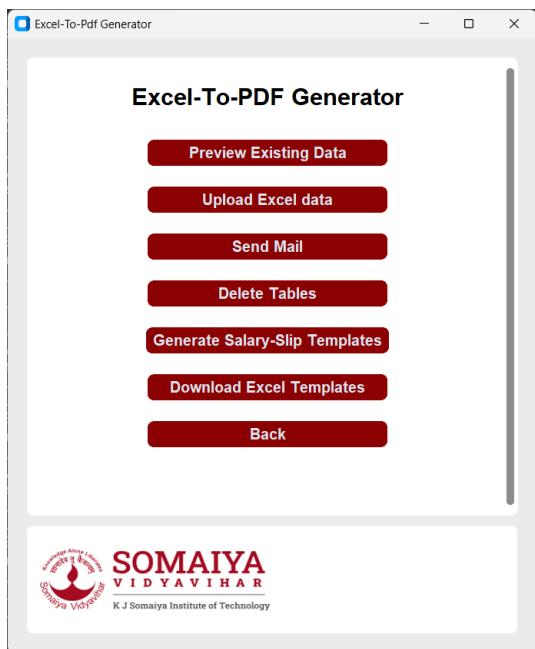
II. SQLite Login Page



This is the SQLite page. Enter the correct database credentials to proceed. (Ensure you use the same key every time)

For now, this page is not used, as the wrong key can easily corrupt the database.

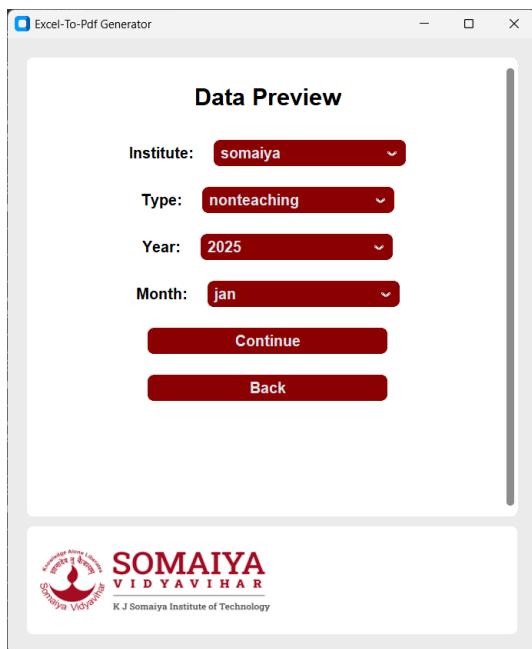
III. Home Page



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.

IV. Preview Existing Data / Data Preview



Choose a specific record from which employee data will be fetched

V. Preview Existing Data / Data View

AADHAR CARD	ADD INCREMENT	AGP/GP	Basic Salary	Books and Periodicals and Client Entertainment exp	GIA	DA	6% w.e.f JULY 2024	DI
499536467496	0	0	10000	0	300	4000	1	AT
717043736219	0	0	10000	0	300	4000	1	AT
448032085254	0	0	10000	0	300	4000	1	AT
442230653495	0	0	10000	0	300	4000	1	AT

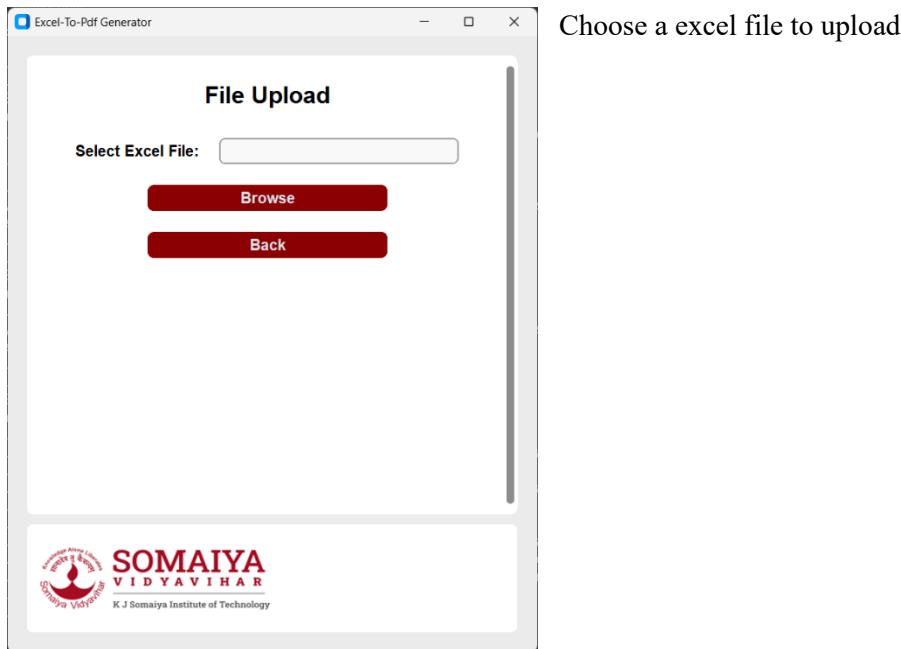
Under Guidance of: Dr. Sarita Ambadekar and Dr. Abhijit Patil
First developed by: Raj More, Pranav Lohar, Aryan Mandke
Department of Computer Engineering

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)

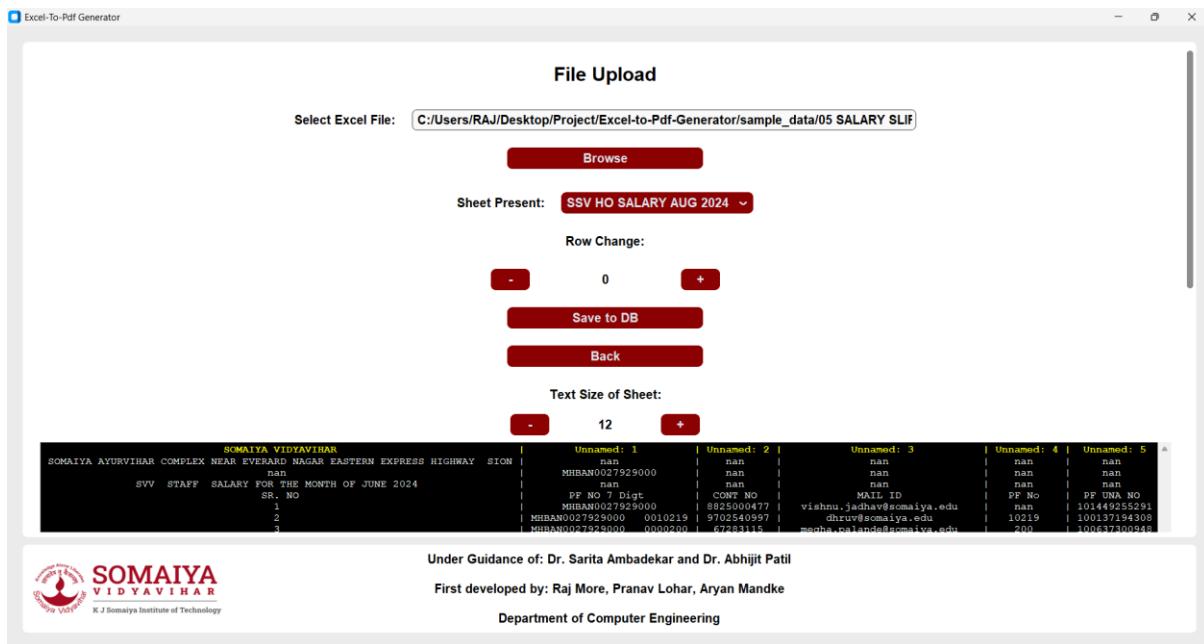
- 4) **Generate Single PDF:** Generate the salary-slip for the employee ID entered in ‘Enter Employee ID’ Field.
- 5) **Bulk Print PDFs:** Bulk print all the salary slips present in this record. (Note: All the generated pdfs will be stored in `pdfs/[Institute]/[Type]/[Year]/[Month]`. Here the various italic-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.

VI. Upload Excel Data / File Upload





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



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.

VII. Upload Excel Data / Data Upload

Data Upload

Please Enter Details about data

Institute:	Somaiya																																	
Type:	Teaching																																	
Month:	Jan																																	
Enter Year:	Eg. 2024																																	
<input type="button" value="Create Table"/> <input type="button" value="Delete from DB"/> <input type="button" value="Back"/>																																		
Text Size of Sheet:																																		
-		12	+																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SOMAIYA VIDYAVIHAR</th> <th>Unnamed: 1</th> <th>Unnamed: 2</th> <th>Unnamed: 3</th> <th>Unnamed: 4</th> <th>Unnamed: 5</th> </tr> </thead> <tbody> <tr> <td>SOMAIYA AYURVIHAR COMPLEX NEAR EVERARD NAGAR EASTERN EXPRESS HIGHWAY SIGN</td> <td>nan</td> <td>nan</td> <td>nan</td> <td>nan</td> <td>nan</td> </tr> <tr> <td>nan</td> <td>MHRAN0027929000</td> <td>nan</td> <td>nan</td> <td>nan</td> <td>nan</td> </tr> <tr> <td>SVV STAFF SALARY FOR THE MONTH OF JUNE 2024</td> <td>nan</td> <td>nan</td> <td>nan</td> <td>nan</td> <td>nan</td> </tr> <tr> <td>SR. NO.</td> <td>PF NO 7 Digit</td> <td>CON2 NO</td> <td>MAIL ID</td> <td>PF No</td> <td>PF DNA NO</td> </tr> </tbody> </table>					SOMAIYA VIDYAVIHAR	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	SOMAIYA AYURVIHAR COMPLEX NEAR EVERARD NAGAR EASTERN EXPRESS HIGHWAY SIGN	nan	nan	nan	nan	nan	nan	MHRAN0027929000	nan	nan	nan	nan	SVV STAFF SALARY FOR THE MONTH OF JUNE 2024	nan	nan	nan	nan	nan	SR. NO.	PF NO 7 Digit	CON2 NO	MAIL ID	PF No	PF DNA NO
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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 to uploaded data have different columns (For example, there is a new column added in the data)

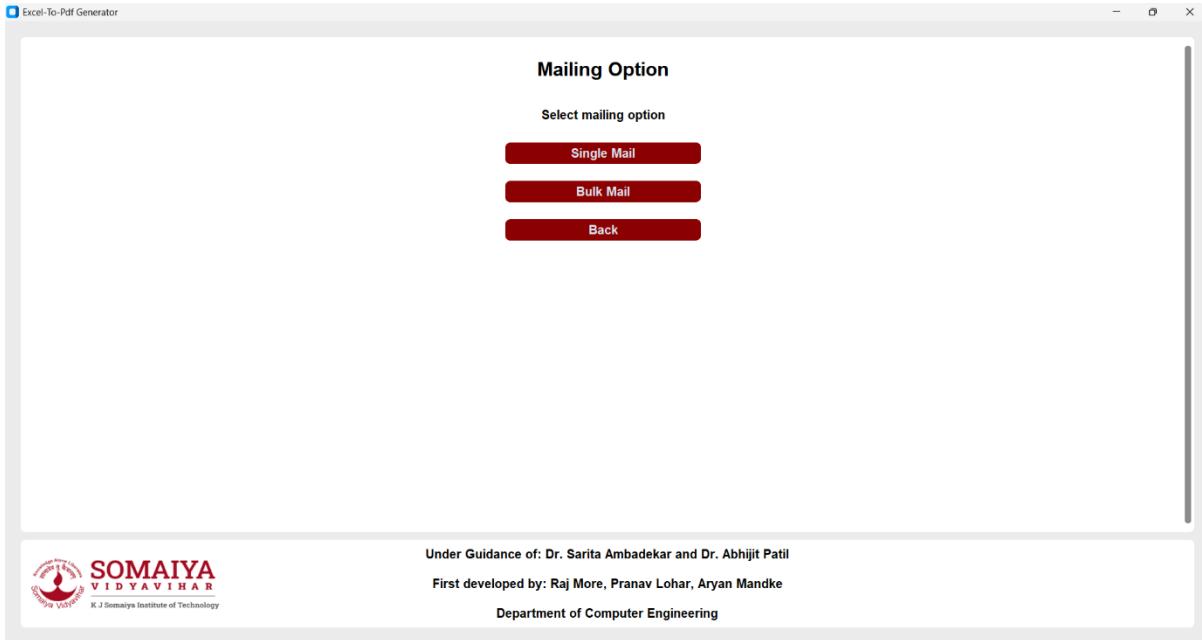
Data Upload

Please Enter Details about data

Institute:	Somaiya																											
Type:	Teaching																											
Month:	Dec																											
Enter Year:	2025																											
<input type="button" value="Create Table"/> <input type="button" value="Upload To DB"/> <input type="button" value="Delete from DB"/> <input type="button" value="Back"/>																												
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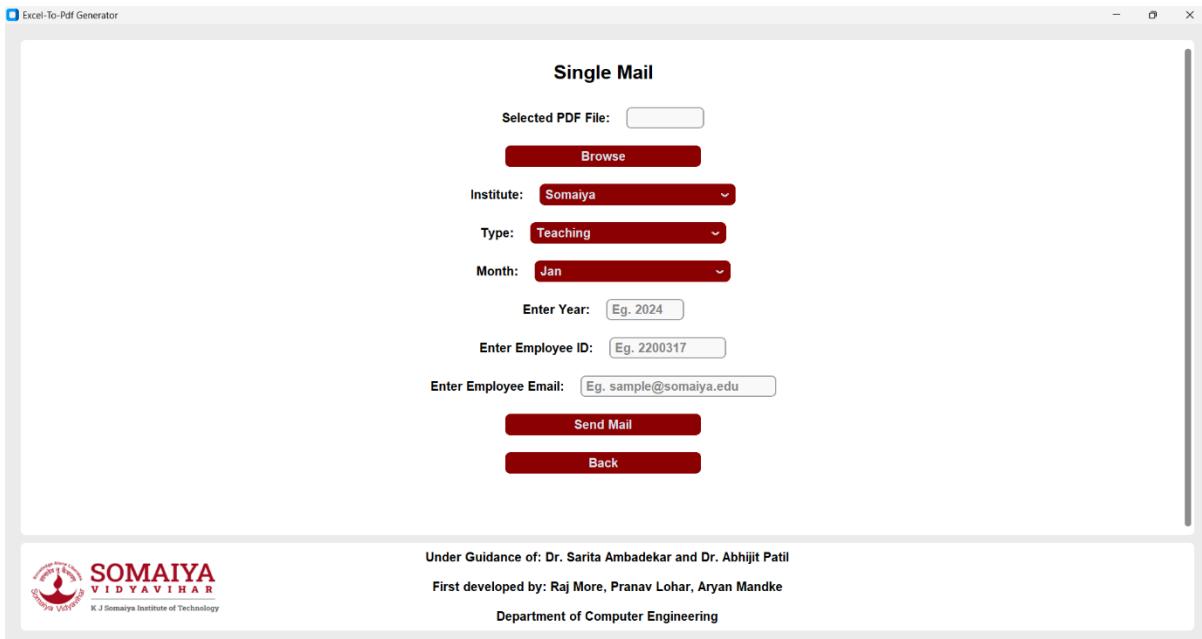
After clicking on **Create Table**, you can click on **Upload to DB** to upload the data into database.

VIII. 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.

IX. Send Mail / Mailing Option / Single Mail

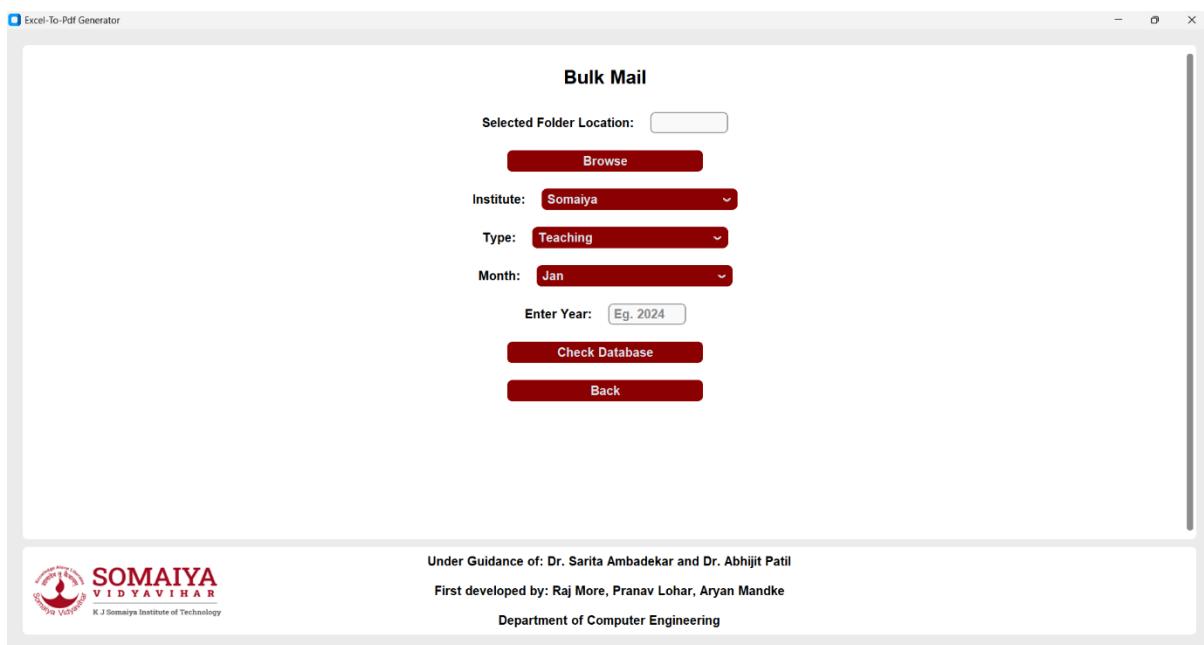


This is the single mail option, used to mail a single pdf to a particular email. The following option are available:

- 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*.

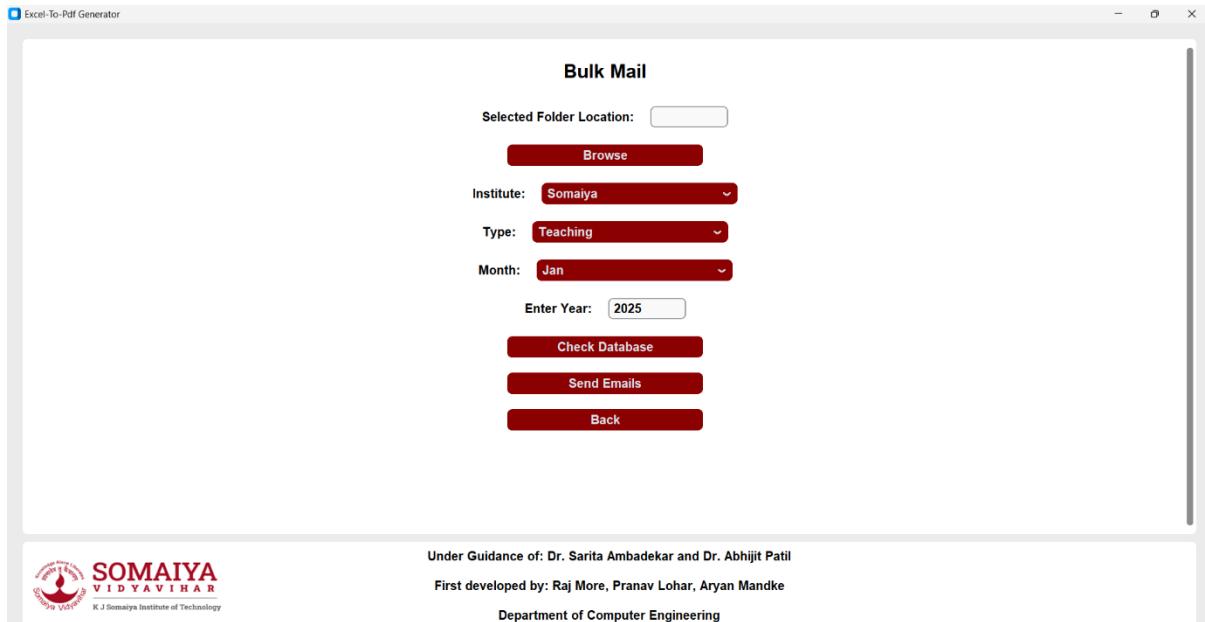
- 4) **Month:** The month to be mentioned in email.
- 5) **Enter Year:** The year to be mentioned in email.
- 6) **Enter Employee ID:** The employee ID to be mentioned in email.
- 7) **Enter Employee Email:** The employee email address to which this email will be send to.

X. Send Mail / Mailing Option / Bulk Mail



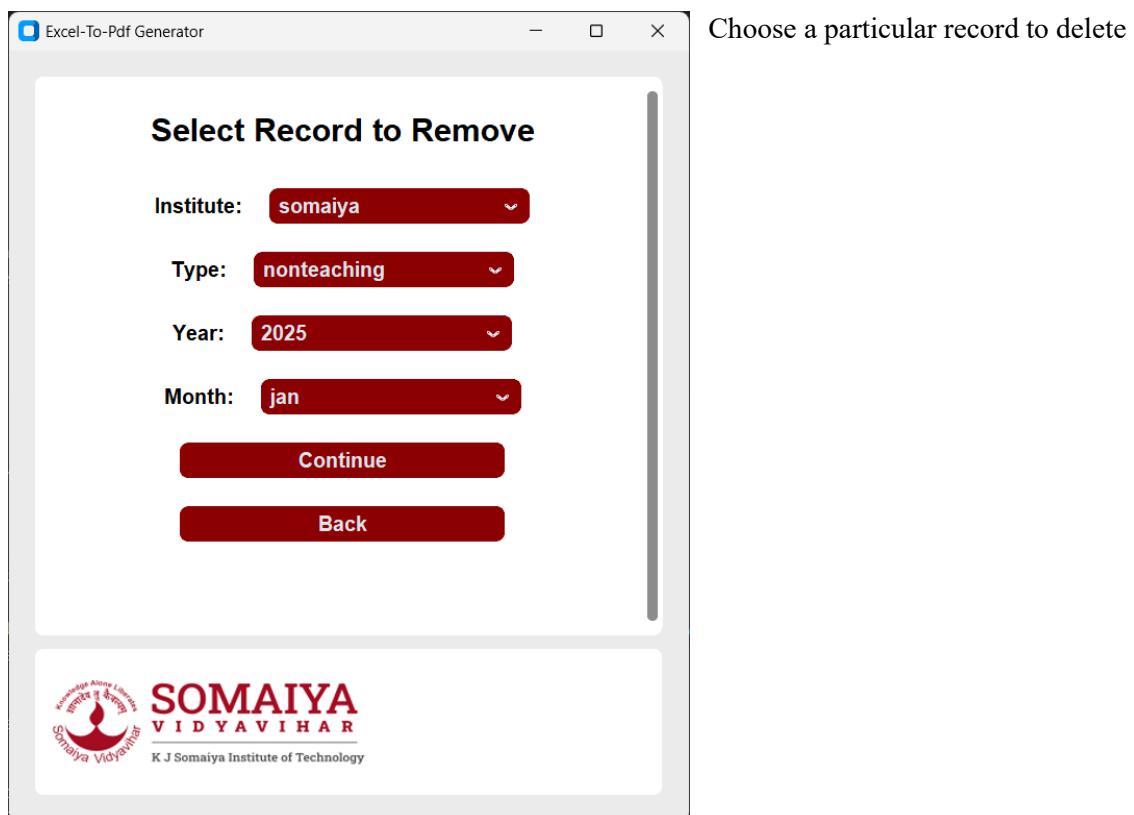
This is the bulk mail option, used to bulk mail pdfs to employee's email mentioned in the data. The following options are available:

- 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 for 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.

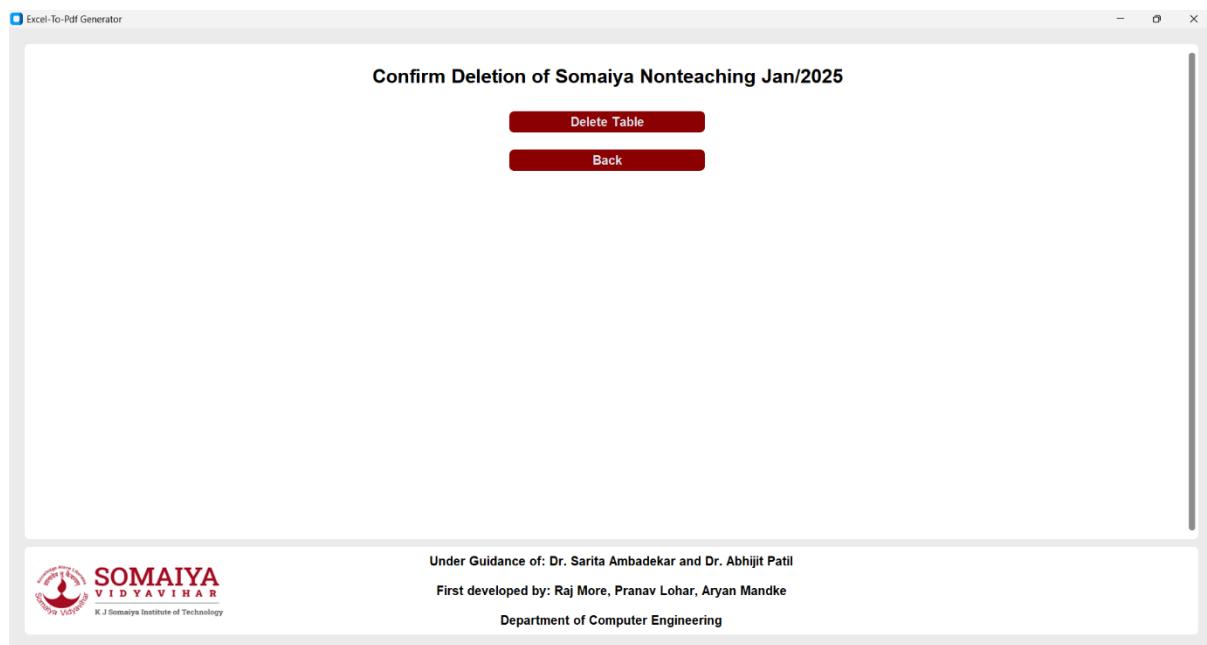


If the records are present, you can click the **Send Emails** to send the emails. (Note: You must wait for this email, closing the application will interrupt the mailing process).

XI. Delete Tables / Select Record to Remove

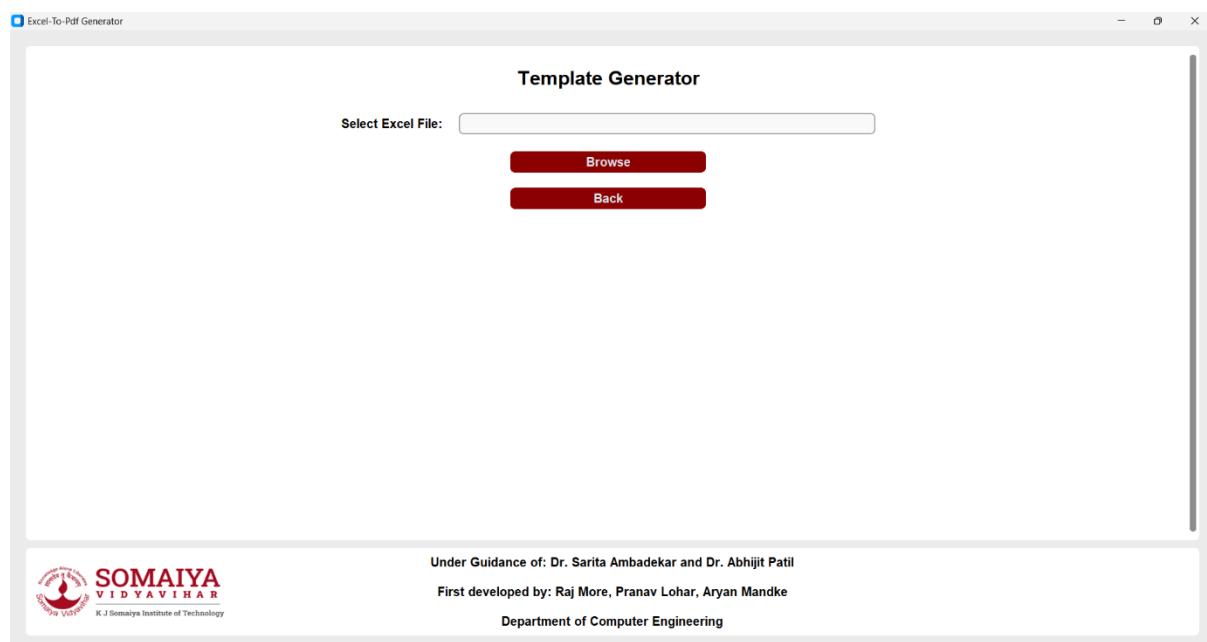


XII. Delete Tables / Select Record to Remove / Delete Confirmation

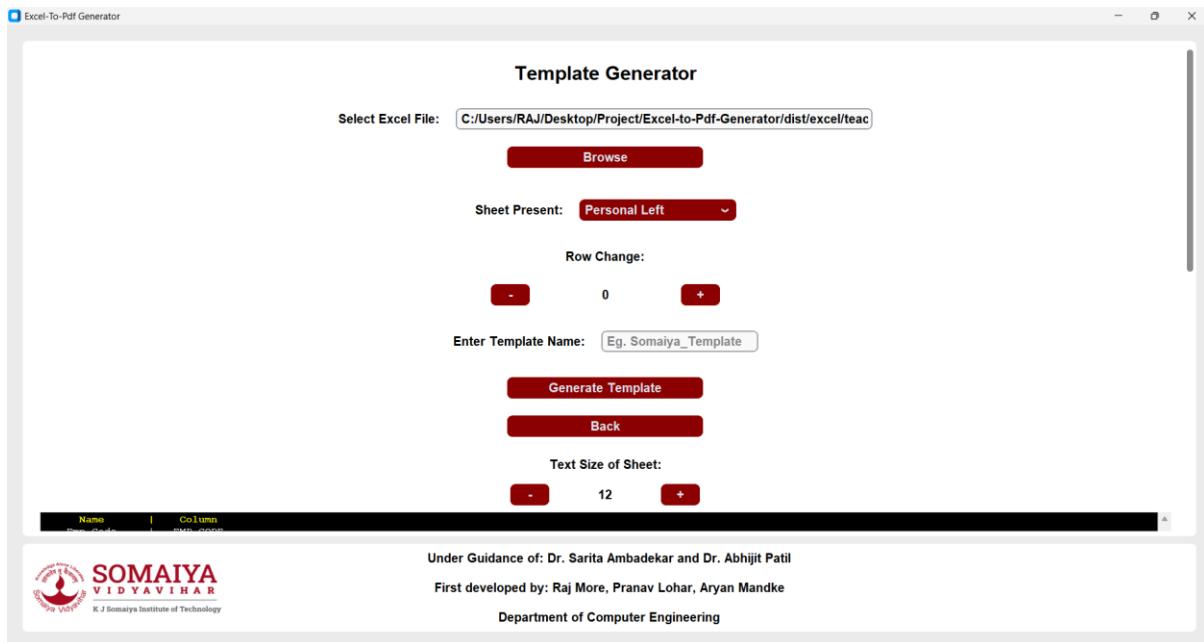


This is main interface to confirm deletion of record. This action should only be performed after taking a proper backup of the data.

XIII. 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.

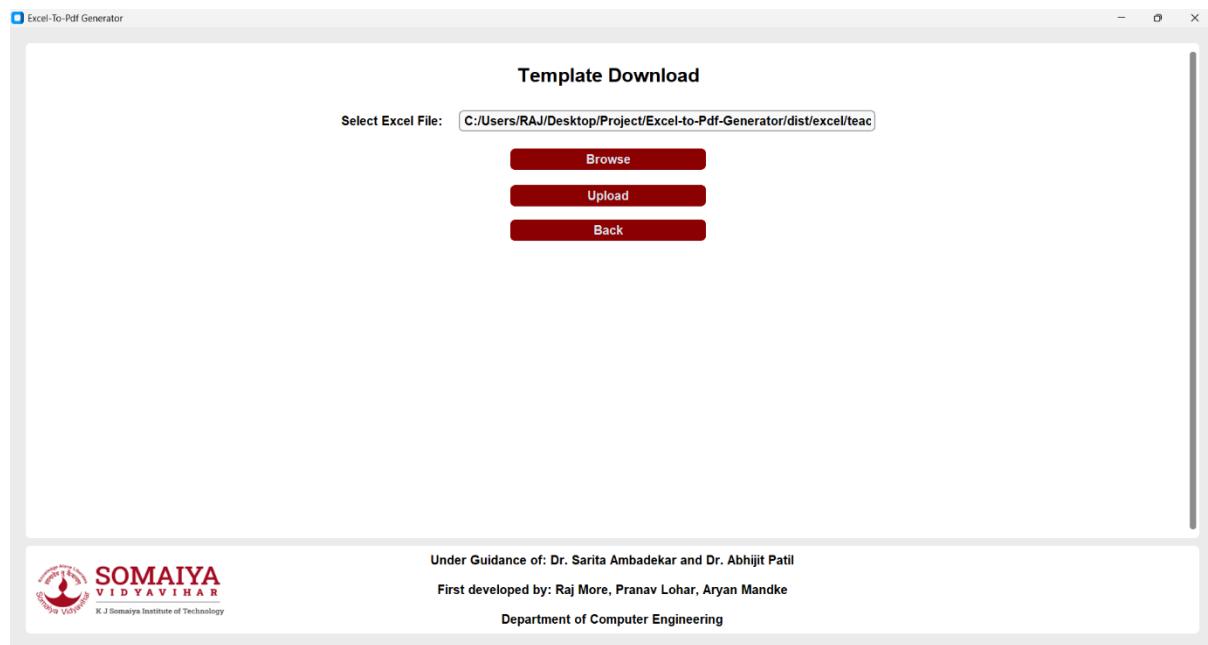
The excel file has the following structure:

- 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)

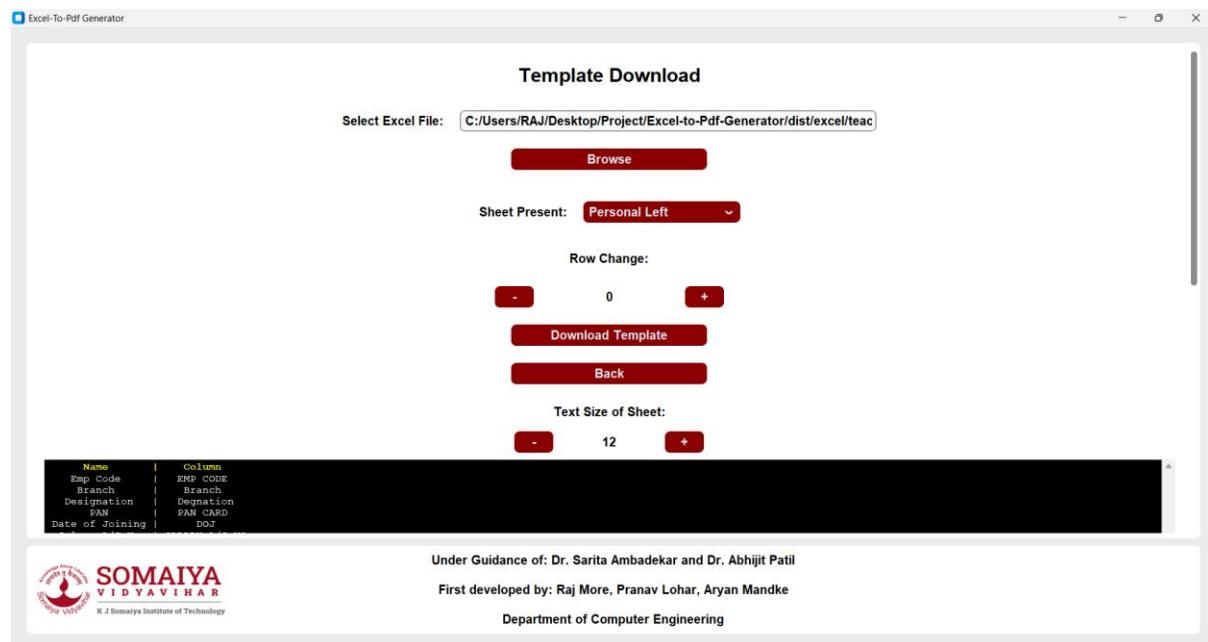
 SOMAIYA VIDYAVIHAR K.J SOMAIYA INSTITUTE OF TECHNOLOGY, SION SOMAIYA AYURVIHAR SION MUMBAI SION 400022 MAHARASHTRA INDIA																																			
Payslip for the month of Jan 2025																																			
<i>Personal Left</i>	<table border="1"> <tr> <td>Emp Code:</td><td>NT0002</td></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																						
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<i>Earning</i>	<table border="1"> <tr> <td colspan="2">Earnings and Deductions</td></tr> <tr> <td>Earnings</td><td>Deductions</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>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>	Earnings and Deductions		Earnings	Deductions	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:	-	Gross Salary:	20300	Total Earnings:	13529	Total Deductions:	6771
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CLA:	300																																		
TA:	0																																		
Special Allowance:	0																																		
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	<i>Deductions</i>																																		
<i>Salary Left</i>																																			
	<i>Salary Right</i>																																		

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

XIV. 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

