

Salary Slip Generator Documentation

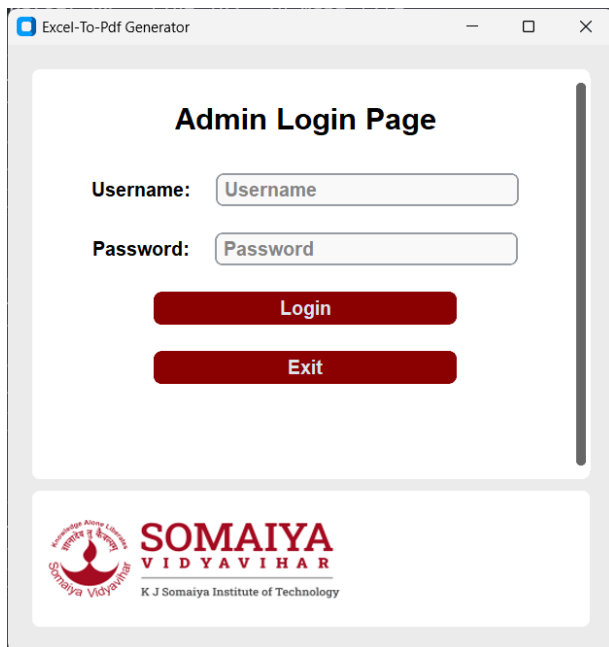
Introduction:

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.

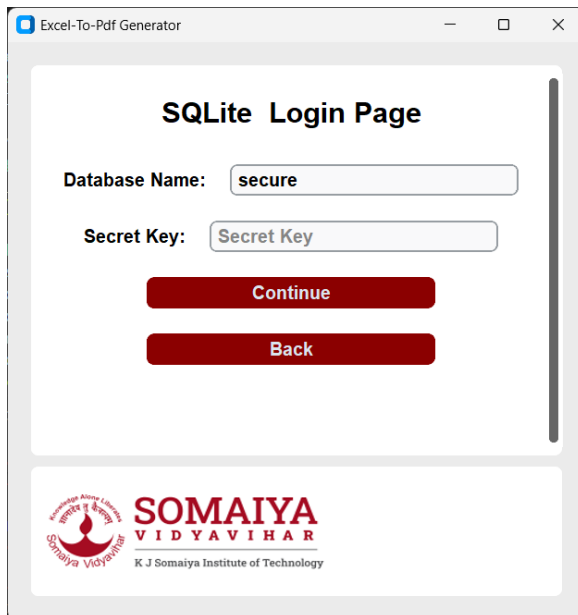
This documentation serves as a comprehensive user guide, explaining the functionality of each module, the required data formats, and best practices to ensure accurate salary slip generation and smooth system operation.

I. Login Page

The screenshot shows a desktop window titled "Excel-To-Pdf Generator". Inside the window is the "Admin Login Page". It features a title "Admin Login Page" at the top. Below the title are two input fields: "Username:" with a text box containing the placeholder "Username", and "Password:" with a text box containing the placeholder "Password". Below these fields are two red buttons: "Login" and "Exit". At the bottom of the window is a footer section containing the logo of Somaiya Vidyavihar (a circular emblem with a lamp and text) and the text "SOMAIYA VIDYAVIHAR" in bold, with "K J Somaiya Institute of Technology" in smaller text below it.

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

II. SQLite Login Page

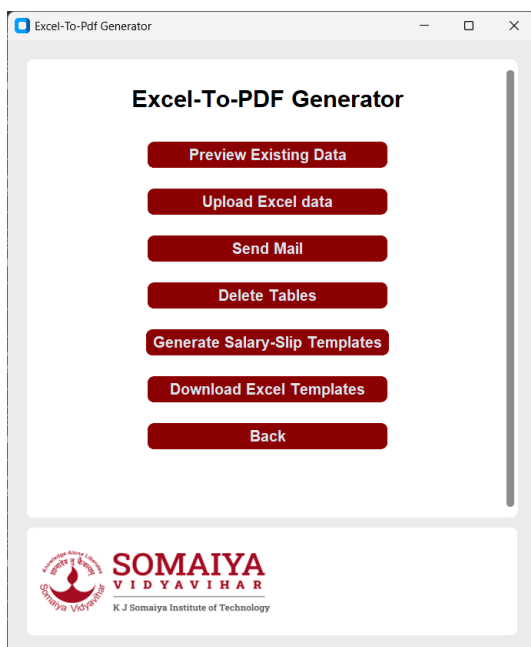


The screenshot shows a web application window titled "Excel-To-Pdf Generator". Inside, the page is titled "SQLite Login Page". It features two input fields: "Database Name:" with the value "secure" and "Secret Key:" with the value "Secret Key". Below these fields are two red buttons: "Continue" and "Back". At the bottom of the page is the logo of SOMAIYA VIDYAVIHAR, K J Somaiya Institute of Technology.

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



The screenshot shows a web application window titled "Excel-To-Pdf Generator". The page has a title "Excel-To-PDF Generator" and a list of seven red buttons: "Preview Existing Data", "Upload Excel data", "Send Mail", "Delete Tables", "Generate Salary-Slip Templates", "Download Excel Templates", and "Back". At the bottom is the logo of SOMAIYA VIDYAVIHAR, K J Somaiya Institute of Technology.

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

Data Preview

Institute: **somaia** ▼


Type: **nonteaching** ▼

Year: **2025** ▼

Month: **jan** ▼

Continue

Back

 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

Choose a specific record from which employee data will be fetched

V. 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	DB
863171248228	0	0	10000	0	300	4000	AG
499336467496	0	0	10000	0	300	4000	AG
717043736219	0	0	10000	0	300	4000	AG
448032085254	0	0	10000	0	300	4000	AG
442230653495	0	0	10000	0	300	4000	AG

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

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

Department of Computer Engineering

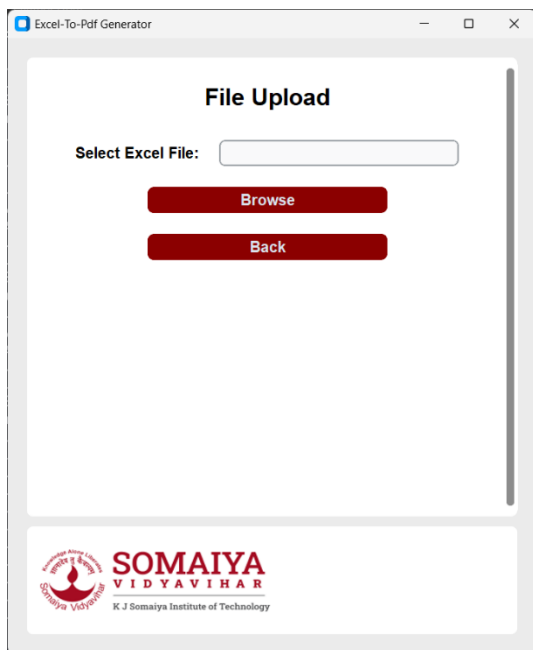
 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

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)

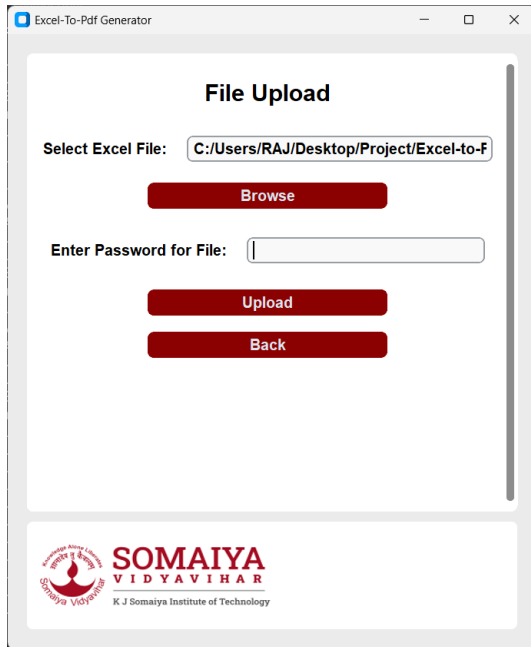
- 4) **Generate Single PDF:** Generate the salary-slip for the employee ID entered in 'Enter Employee ID' Field.
- 5) **Bulk Print PDFs:** Bulk print all the salary slips present in this record. (Note: All the generated pdfs will be store in pdfs/[*Institute*]/[*Type*]/[*Year*]/[*Month*]. Here the various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



The screenshot shows a web application window titled "Excel-To-Pdf Generator". Inside the window, there is a section titled "File Upload". Below this title, there is a label "Select Excel File:" followed by a text input field. Below the input field, there are two red buttons: "Browse" and "Back". At the bottom of the window, there is a logo for "SOMAIYA VIDYAVIHAR" and the text "K J Somaiya Institute of Technology".

Choose a excel file to upload




Excel-To-Pdf Generator

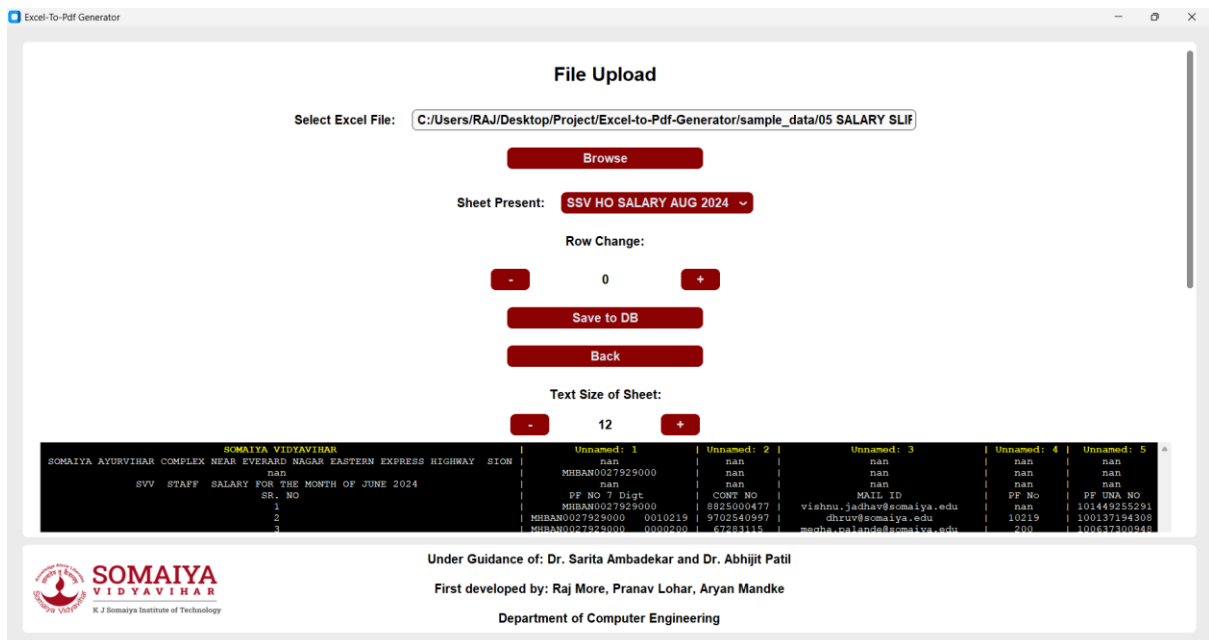
File Upload

Select Excel File:

Enter Password for File:

 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

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



Excel-To-Pdf Generator

File Upload


Select Excel File:

Sheet Present:

Row Change:

Text Size of Sheet:

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 Digt	nan	nan	nan	nan
1		MHBAN0027929000	8825000477	vishnu.jadhav@somaiya.edu	nan	101449255291
2		MHBAN0027929000	0010219	5702540397	chruv@somaiya.edu	10219 100137194308
3		MHBAN0027929000	0000200	67283145	madha.rutland@somaiya.edu	200 100637200548

 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

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.

VII. 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	nan
SVV STAFF SALARY FOR THE MONTH OF JUNE 2024	nan	MHRAN0027929000	nan	nan	nan	nan
SR. NO	nan	PF NO 7 Digt	CONF NO	MAIL ID	PF No	PF UNA NO

 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

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)

Excel-To-Pdf Generator

Data Upload

Please Enter Details about data

Institute: **Somaiya**

Type: **Teaching**

Month: **Dec**

Enter Year: **2025**

Create Table

Upload To DB


Delete from DB

Back

Text Size of Sheet:

- 12 +

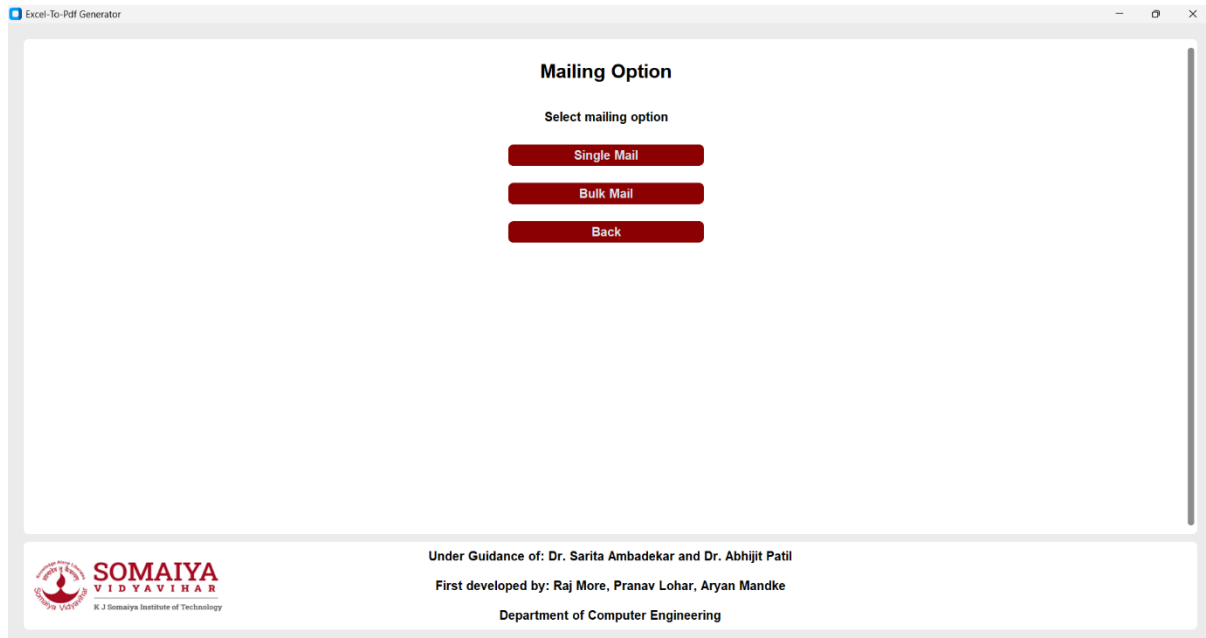
Unnamed: 0	Unnamed: 1	PF NO 7 Digt	PF No	LIC ID	POLICY NO	PF UNA NO	SCALE
2	nan	MHRAN00281140000000093	MHRAN00281140000000093	45	673845	100371738413	37400-57100 AGP 9000 (new 43000-57100 AGP

 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

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

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

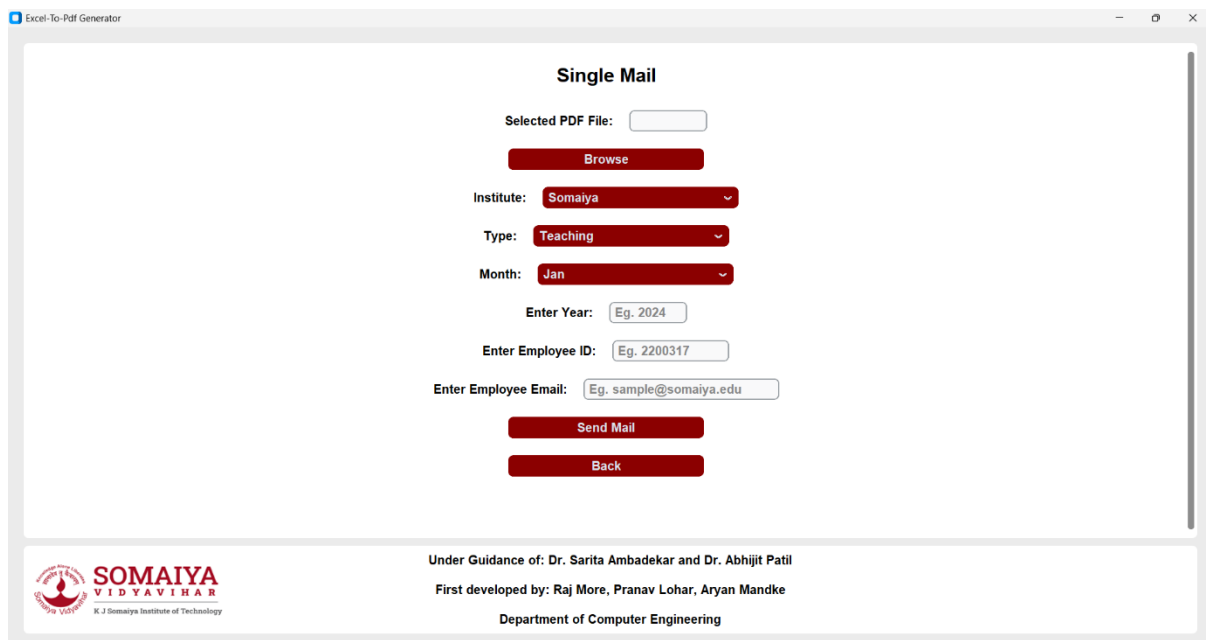
VIII. Send Mail / Mailing Option



The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main content area is titled "Mailing Option" and contains the text "Select mailing option". Below this text are three red buttons: "Single Mail", "Bulk Mail", and "Back". The footer of the application contains the Somaiya Vidyavihar logo on the left and the following text on the right: "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 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



The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main content area is titled "Single Mail" and contains several input fields and buttons. The fields are: "Selected PDF File:" with a text input and a "Browse" button; "Institute:" with a dropdown menu showing "Somaiya"; "Type:" with a dropdown menu showing "Teaching"; "Month:" with a dropdown menu showing "Jan"; "Enter Year:" with a text input showing "Eg. 2024"; "Enter Employee ID:" with a text input showing "Eg. 2200317"; and "Enter Employee Email:" with a text input showing "Eg. sample@somaiya.edu". Below these fields are two red buttons: "Send Mail" and "Back". The footer of the application contains the Somaiya Vidyavihar logo on the left and the following text on the right: "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.

X. Send Mail / Mailing Option / Bulk Mail

The screenshot shows a web application window titled "Excel-To-Pdf Generator". Inside, there is a section titled "Bulk Mail". The form includes the following fields and buttons:

- Selected Folder Location:** A text input field.
- Browse:** A red button to select a folder.
- Institute:** A dropdown menu with "Somaiya" selected.
- Type:** A dropdown menu with "Teaching" selected.
- Month:** A dropdown menu with "Jan" selected.
- Enter Year:** A text input field with "Eg. 2024" as a placeholder.
- Check Database:** A red button to check the database.
- Back:** A red button to return to the previous screen.

At the bottom of the window, there is a footer section containing the Somaiya Vidyavihar logo, the text "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 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.

Excel-To-Pdf Generator

Bulk Mail

Selected Folder Location:

Browse

Institute: **Somaiya** ▼

Type: **Teaching** ▼


Month: **Jan** ▼

Enter Year: **2025**

Check Database

Send Emails

Back

 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

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

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

Excel-To-Pdf Generator

Select Record to Remove

Institute: **somaiya** ▼


Type: **nonteaching** ▼

Year: **2025** ▼

Month: **jan** ▼

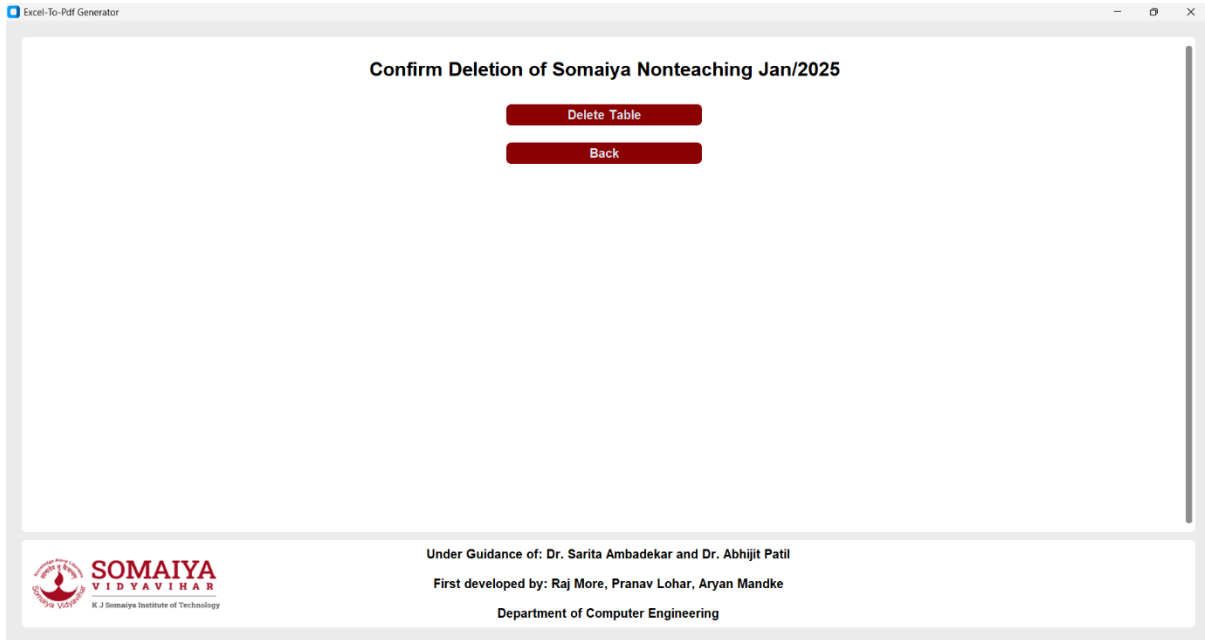
Continue

Back

 **SOMAIYA VIDYAVIHAR**
K. J. Somaiya Institute of Technology

Choose a particular record to delete

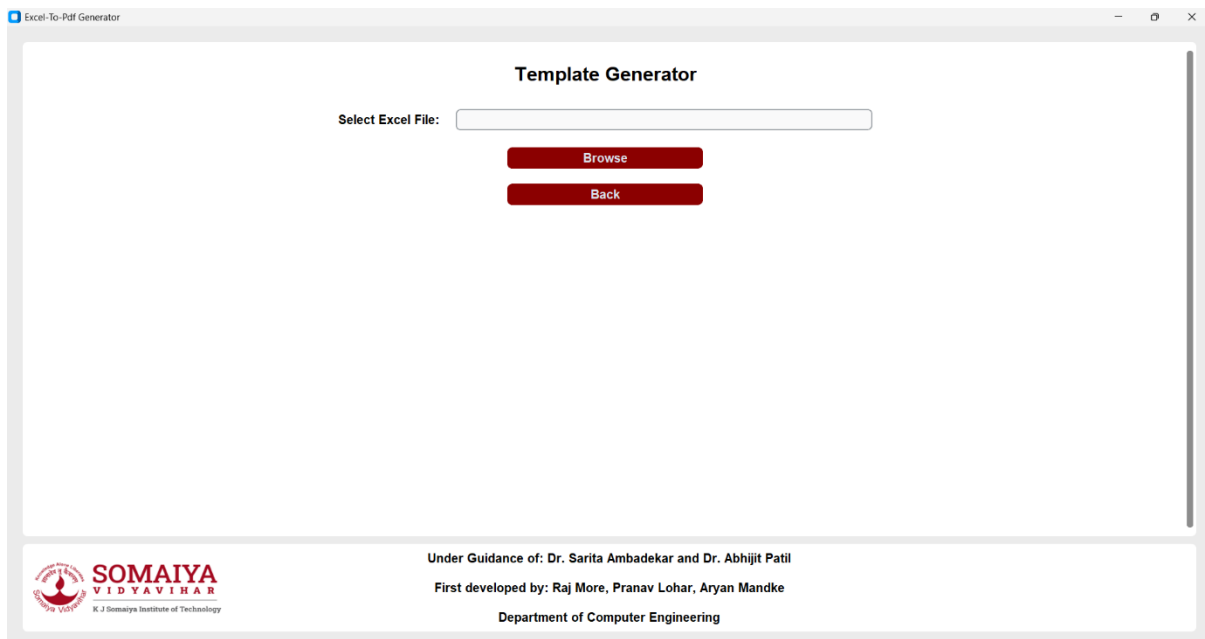
XII. Delete Tables / Select Record to Remove / Delete Confirmation



The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main content area displays a confirmation message: "Confirm Deletion of Somaiya Nonteaching Jan/2025". Below this message are two red buttons: "Delete Table" and "Back". The footer of the application contains the Somaiya Vidyavihar logo on the left, and the following text on the right: "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 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



The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main content area displays a form titled "Template Generator". The form includes a label "Select Excel File:" followed by a text input field. Below the input field are two red buttons: "Browse" and "Back". The footer of the application contains the Somaiya Vidyavihar logo on the left, and the following text on the right: "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 interface for template generator for salary-slip, this generates the HTML and JSON templates from predefined excel file (see 'excel' folder for the structure)

Excel-To-Pdf Generator

Template Generator

Select Excel File:

Sheet Present:

Row Change:

Enter Template Name:

Text Size of Sheet:

SOMAIYA VIDYAVIHAR
K J Somaiya Institute of Technology

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

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:

- There are 6 sheets in the excel: *Personal Left*, *Personal Right*, *Earning*, *Deductions*, *Salary Left* and *Salary Right*,
- 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>	Emp Code:	NT0002	Name:	Mahesh R Sawant	<i>Personal Right</i>
	Branch:	Sion	Aadhar Card No:	863171248228	
	Designation:	Attendant	PF No:	MHBAN002811400000000010	
	PAN:	BDPPS9129B	UAN No:	-	
	Date of Joining:	01-08-2001	Scale:	5,200 - 20,200 GP 1,900	
	Salary A/C No:	29010100286725	Total Days Present:	31Days	

<i>Earning</i>	Earnings and Deductions		<i>Deductions</i>	
	Earnings			Deductions
	Basic Pay:	10000	Profession Tax:	200
	Present Basic:	10000	PF Amount:	-
	AGP / GP:	0	TDS:	0
	DA:	-	LIC:	0
	HRA:	600	Personal Loan:	-
	CLA:	300	Diwali Advance / Other:	-
	TA:	0	Staff Loan / Advance:	-
	Special Allowance:	0	Medical Policy / Advance:	-
	Washing Allowance:	-	KJ Somaiya Credit Society Ltd:	3091
	Arrears:	0	Any Other Deduction:	0
	Exam Remuneration / Others:	0		
	Miscellaneous:	-		

<i>Salary Left</i>	Gross Salary:	20300	Total Deductions:	6771	<i>Salary Right</i>
	Total Earnings:	13529			

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

XIV. Download Excel Templates / Template Download

The screenshot shows the 'Template Download' section of the Excel-to-Pdf Generator. It features a text input field for 'Select Excel File' with the path 'C:/Users/RAJ/Desktop/Project/Excel-to-Pdf-Generator/dist/excel/teac'. Below this are three red buttons: 'Browse', 'Upload', and 'Back'. At the bottom, there is a footer with the Somaiya Vidyavihar logo, the text '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 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

This screenshot shows the same 'Template Download' interface but with more options visible. In addition to the 'Select Excel File' field and 'Browse', 'Upload', and 'Back' buttons, there is a 'Sheet Present' dropdown menu set to 'Personal Left', a 'Row Change' section with minus and plus buttons around the number '0', a 'Download Template' button, and a 'Text Size of Sheet' section with minus and plus buttons around the number '12'. A small table preview is visible at the bottom left, showing columns for Name, Emp Code, Branch, Designation, PAN, and Date of Joining, and rows for Column, EMP CODE, Branch, Designation, PAN CARD, and DOB. The footer remains the same as in the previous screenshot.

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

