

# Salary Slip Generator Documentation

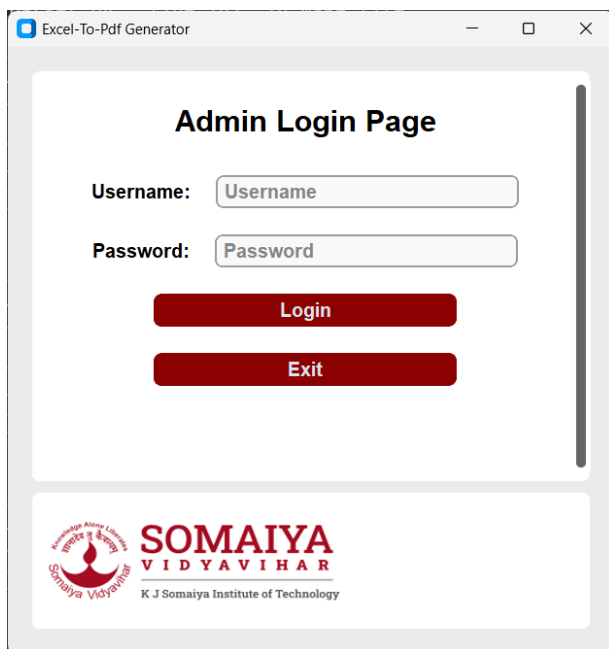
## Introduction:

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.

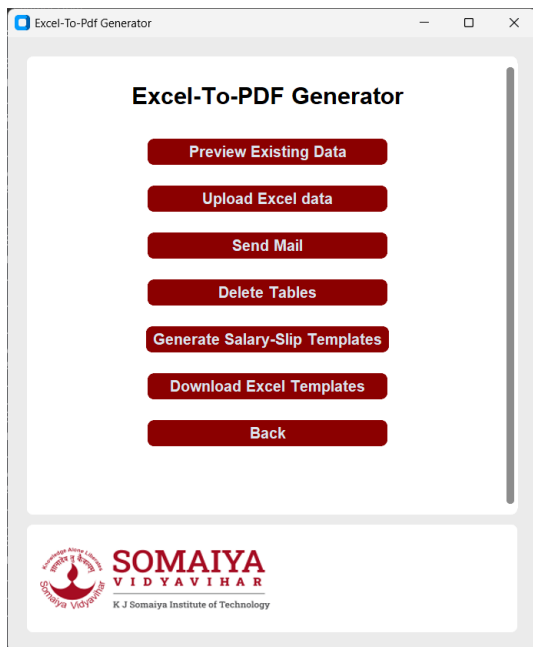
This documentation serves as a comprehensive user guide, explaining the functionality of each module, the required data formats, and best practices to ensure accurate salary slip generation and smooth system operation.

## I. Login Page

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 a logo on the left and the text "SOMAIYA VIDYAVIHAR" in large red letters, with "K J Somaiya Institute of Technology" in smaller black letters below it.

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

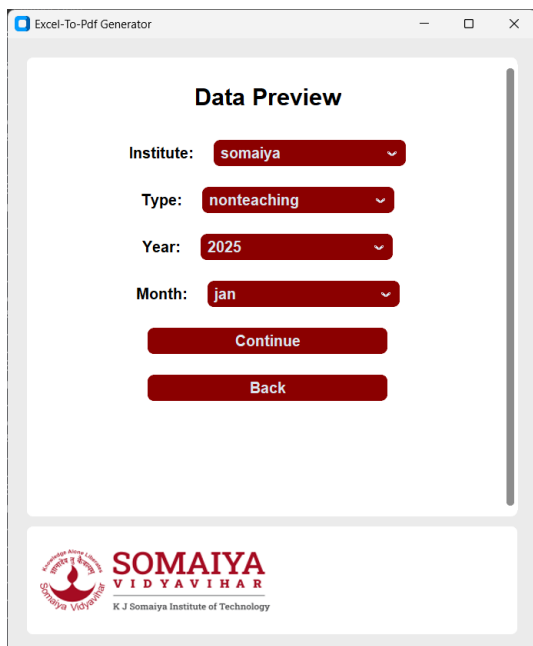
## II. Home Page



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 Somaia 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 +

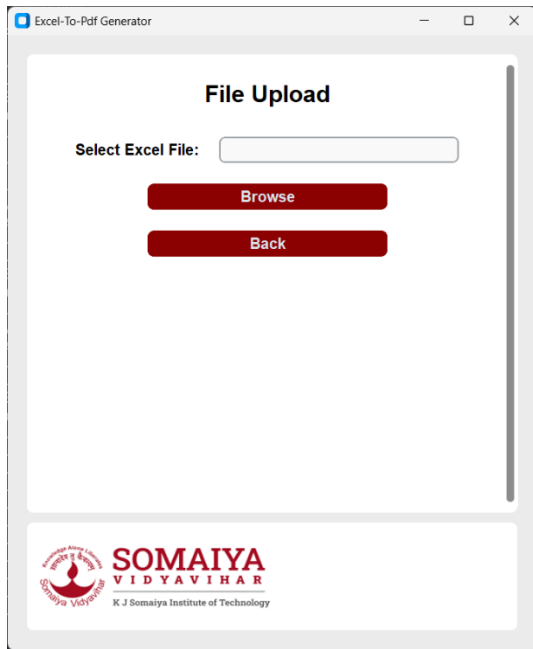
| ADDITIONAL CARD | ADD INCREMENT | AGE/OP | Basic Salary | Books and Periodicals and Client Entertainment exp | CIA | DA 6% | w.e.f JULY 2024 | DE |
|-----------------|---------------|--------|--------------|--|-----|-------|-----------------|----|
| 863171240228    | 0             | 0      | 10000        | 0  | 300 | 4000  |                 | At |
| 459536467496    | 0             | 0      | 10000        | 0  | 300 | 4000  |                 | At |
| 717043736219    | 0             | 0      | 10000        | 0  | 300 | 4000  |                 | At |
| 448032085254    | 0             | 0      | 10000        | 0  | 300 | 4000  |                 | At |
| 44223653495     | 0             | 0      | 10000        | 0  | 300 | 4000  |                 | At |

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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:

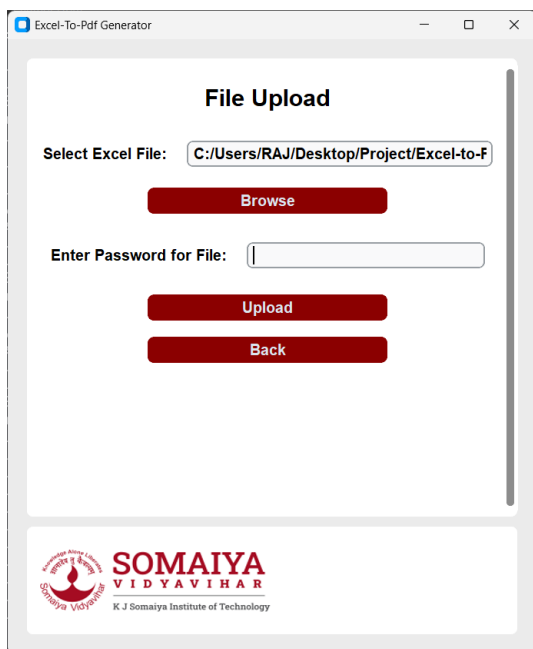
- 1) **Enter Employee ID:** Fetch result of an employee with corresponding HR EMP ID.
- 2) **Copy Row to Clipboard:** Copies the data of employee whose ID is entered in “**Enter Employee ID**” to clipboard. (Allowing for Copy-Paste Operation)
- 3) **Choose Template HTML and Mapping JSON:** Choose the 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 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.

## V. Upload Excel Data / File Upload



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

Choose a excel file to upload



The screenshot shows the same web application window. The "Select Excel File:" input field now contains the file path "C:/Users/RAJ/Desktop/Project/Excel-to-F". Below this input field is a red "Browse" button. Below the "Browse" button is a new label "Enter Password for File:" followed by a text input field. Under the password input field are two red buttons: "Upload" and "Back". The logo and text at the bottom remain the same.

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 SLIP

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  |  |  |  | nan             | nan        | nan                       | nan        | nan          |
| 1   |  |  |  | PF NO 7 Digit   | CONT NO    | MAIL ID                   | PF No      | PF UNA NO    |
| 2   |  |  |  | MHBAN0027929000 | 8825000477 | vishnu.jadhav@somaiya.edu | nan        | 101449255251 |
| 3   |  |  |  | MHBAN0027929000 | 0010219    | dhruv@somaiya.edu         | 10219      | 100137194308 |
|   |  |  |  | MHBAN0027929000 | 0000209    | 67283115                  | nan        | 100537100948 |



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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  |  |  |  | nan             | nan        | nan        | nan        | nan        |
|   |  |  |  | PF NO 7 Digit   | CONT NO    | MAIL ID    | PF No      | PF UNA NO  |



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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)

The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main heading is "Data Upload". Below it, the instruction "Please Enter Details about data" is followed by four dropdown menus: "Institute" (selected: Somaiya), "Type" (selected: Teaching), "Month" (selected: Dec), and "Enter Year" (text input: 2025). Below these are four red buttons: "Create Table", "Upload To DB", "Delete from DB", and "Back". Underneath the buttons is a "Text Size of Sheet:" section with a minus button, the number "12", and a plus button. At the bottom of the form area is a table with 10 columns: "Unnamed: 0", "Unnamed: 1", "PF No 7 Digt", "PF No", "LIC ID", "POLICY NO", "PF UNA NO", "SCALE", "37400-57100", and "AgP 9000". The first row of data contains values: "2", "nan", "MEBAN00261140000000093", "MEBAN00261140000000093", "45", "673845", "10031735413", "37400-57100", "AgP 9000", and "43000-57100 AgP". The footer of the application includes 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".

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

## VII. Send Mail / Mailing Option

The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main heading is "Mailing Option". Below it, the instruction "Select mailing option" is followed by three red buttons: "Single Mail", "Bulk Mail", and "Back". The footer of the application is identical to the previous screenshot, including 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 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 a web form titled "Single Mail" within a browser window. The form contains the following fields and controls:

- Selected PDF File:** A text input field with a "Browse" button below it.
- 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.
- Enter Employee ID:** A text input field with "Eg. 2200317" as a placeholder.
- Enter Employee Email:** A text input field with "Eg. sample@somaiya.edu" as a placeholder.
- Buttons:** "Send Mail" and "Back" buttons at the bottom of the form.

At the bottom of the page, 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 single mail option, used to mail a single pdf to a particular email. The following options 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 sent to.

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

**Bulk Mail**


Selected Folder Location:

Institute:

Type:

Month:

Enter Year:

 **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 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**  
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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

Excel-To-Pdf Generator

### Select Record to Remove

Institute: **somaiya** ▼


Type: **nonteaching** ▼

Year: **2025** ▼

Month: **jan** ▼

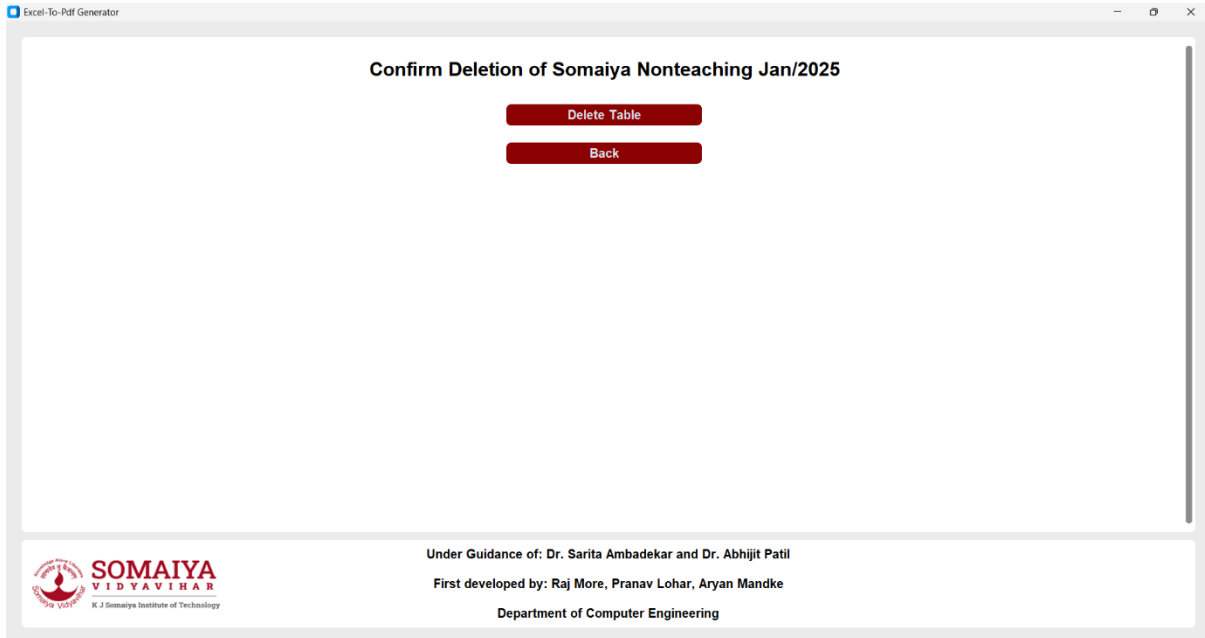
**Continue**

**Back**

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

Choose a particular record to delete

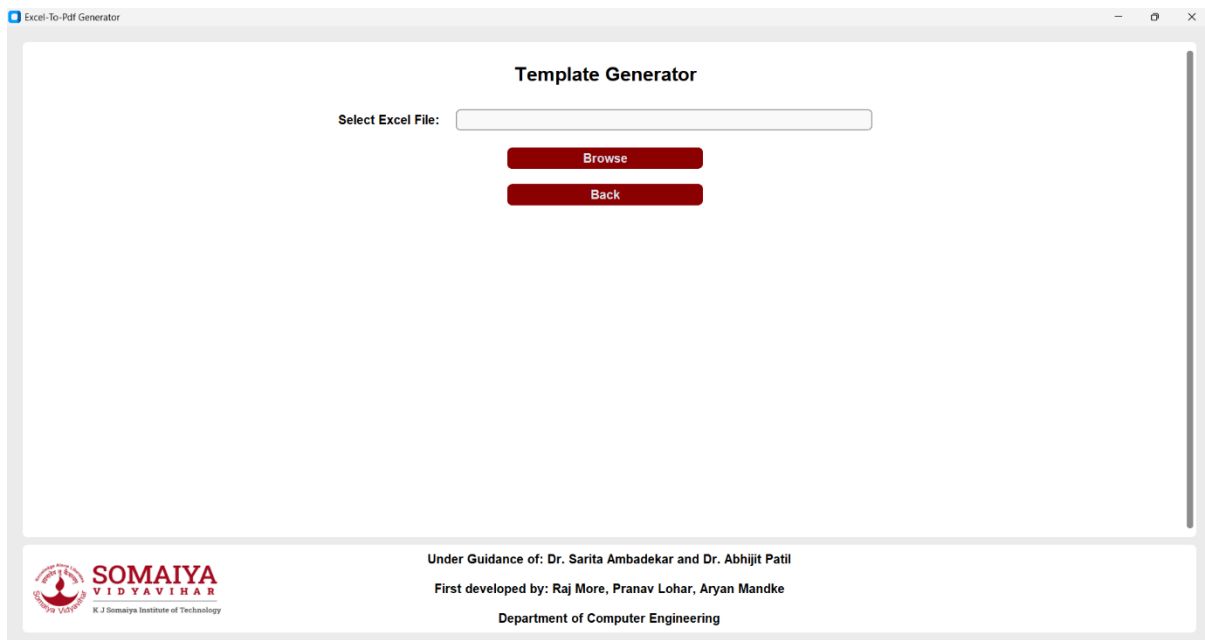
## XI. Delete Tables / Select Record to Remove / Delete Confirmation



The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main content area has a heading "Confirm Deletion of Somaiya Nonteaching Jan/2025". Below the heading are two red buttons: "Delete Table" and "Back". At the bottom of the window, there is a footer section containing the Somaiya Vidyavihar logo on the left, and text on the right stating: "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.

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



The screenshot shows a web application window titled "Excel-To-Pdf Generator". The main content area has a heading "Template Generator". Below the heading is a label "Select Excel File:" followed by a text input field. Below the input field are two red buttons: "Browse" and "Back". At the bottom of the window, there is a footer section containing the Somaiya Vidyavihar logo on the left, and text on the right stating: "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:

Name | Column


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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>                 | <b>Earnings and Deductions</b> |       | <i>Deductions</i> |
|                                | <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                              |       |                   |

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

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

### XIII. Download Excel Templates / Template Download

The screenshot shows the 'Template Download' window of the Excel-to-Pdf Generator. At the top, the title 'Template Download' is centered. Below it, a text field labeled 'Select Excel File:' contains the path 'C:/Users/RAJ/Desktop/Project/Excel-to-Pdf-Generator/dist/excel/teac'. Three red buttons are stacked vertically: 'Browse', 'Upload', and 'Back'. At the bottom of the window, there is a footer section. On the left is the 'SOMAIYA VIDYAVIHAR' logo. To the right, the text reads: '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' window but with more options visible. Below the 'Upload' button, there is a 'Sheet Present:' dropdown menu set to 'Personal Left'. Below that is a 'Row Change:' section with minus and plus buttons flanking the number '0'. A 'Download Template' button is positioned below the row change controls. Below that is a 'Back' button. At the bottom of the main content area, there is a 'Text Size of Sheet:' section with minus and plus buttons flanking the number '12'. At the very bottom, a small table is visible, listing columns for the generated Excel file:

| Name            | Column      |
|-----------------|-------------|
| Emp Code        | EMP CODE    |
| Branch          | Branch      |
| Designation     | Designation |
| PAN             | PAN CARD    |
| Date of Joining | DOJ         |

The footer section at the bottom of the window is identical to the first screenshot, showing the 'SOMAIYA VIDYAVIHAR' logo and the project details.

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

