Thank-A-Teacher

Installation Guide

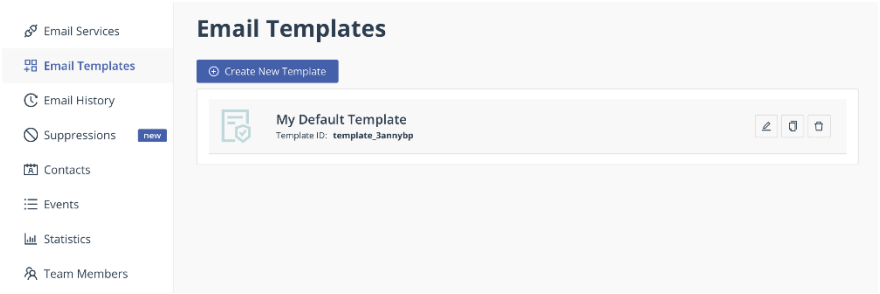
Version 1.0

12/2/24

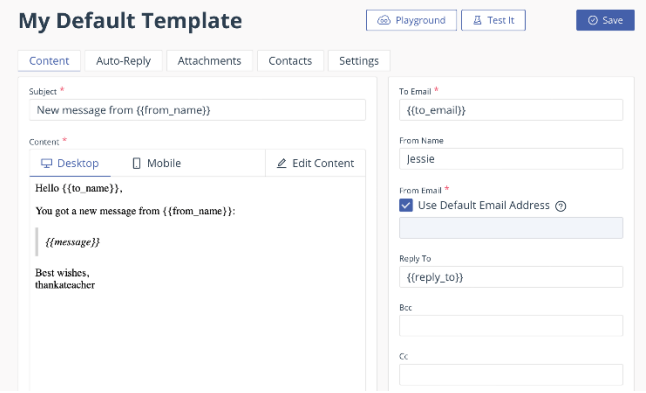
Table of Contents:

Prerequisites:

1. *Install Node.js and npm*
    a. Download and install Node.js: https://nodejs.org/en
    b. Confirm Installation:
    ```
    node -version
    npm -version
    ```
2. *Clone the Repository*
    c. Run the lines below in your preferred location:
    ```
    git clone https://github.com/CS-3311-Group-4115/Thank-A-Teacher.git
    cd Thank-A-Teacher
    ```
3. *Set up MongoDB*
    a) Create a Mongodb account at this link: https://www.mongodb.com/
    b) Create a Cluster
    c) Select "Connect" and then "Drivers"
        a. From this menu, you can find the "Connection String"
        b. Place this "connection string" in backend/thank-a-teacher/server.js in the uri variable
4. *Set up EmailjJS*
    d. Create an account at https://www.emailjs.com/
    e. Select '**Email Templates**' on the left Navigation
    f. Select '**Create New Template**'



g. On the template content page, edit all required portions (subject, content, to email, from email). Ensure that all curly bracketed information keeps the naming as seen in the image below.



h. Save and Exit

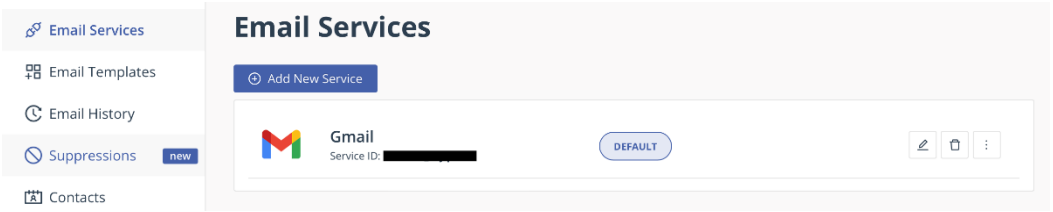
Installation:

1. *Install Dependencies*
    a. Run the following command in the project root to install all required packages.
    `npm install`
        i. For any dependency errors/library references refer to Troubleshooting

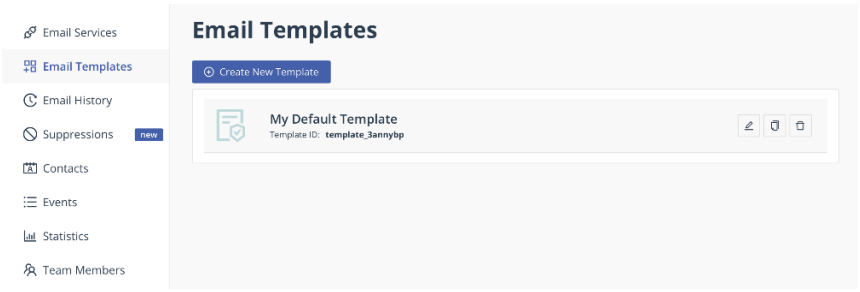
2. *Set up Emailjs code*
    a. In your local repository, navigate to basepage.js.
    b. At line 89 you will find the code associated with sending emails to teaching assistants.

```
89      if (confirmSend) {
90      const message = "You have been sent a card! http://localhost:3000/login"; // Assuming 'text' contains the card message
91      const cardImage = cards[selectedCard - 1]; // Get the selected card image
92
93      const templateParams = {
94          to_email: selectedTAEmail, // Recipient email
95          from_name: 'thankateacher', // Sender name (could be dynamic)
96          message: message,
97      };
98
99          emailjs.send('', '', templateParams, '')
100             .then((response) => {
101         console.log('Email successfully sent!', response.status, response.text);
102         alert('Email sent successfully!');
103     })
104         .catch((error) => {
105         console.error('Failed to send email:', error);
106         alert('Failed to send email.');
107     });
108
109 }
110     if (confirmSend) {
111       // Navigate to the SentPage to show the animation
112       navigate('/sent');
113     }
114 };
115
```

    c. Edit the four parameters on line 99 with the information associated with your created template and account.
        i. The first parameter should be the email service ID associated with the account. This can be found at the '**Email Services'** Tab on the left navigation.

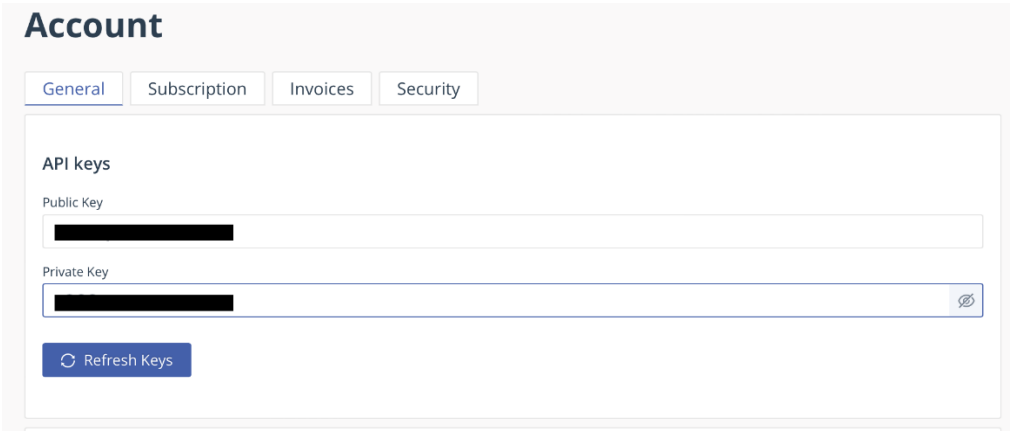


        ii. The second parameter should be the Template ID. This can be found after selecting '**Email Templates'** Tab.



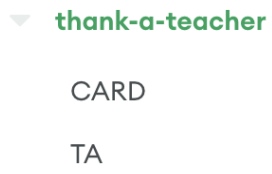
iii. The third parameter should remain the same: '**templateParams**'

iv. The fourth parameter is the **public** key associated with your EmailJS account. This can be found by navigating to the '**Account'** tab on the left navigation.



v. Save your changes to basepage.js

3. Setup MongoDB format
   a. The MongoDB is setup with two collections and can be found when looking at the collections of Cluster0.
   b. Upon logging in to MongoDB you should see the following Cluster:



      i. The thank-a-teacher is the database with CARD and TA are collections
         1. **CARD** stores the jpeg strings associated with the sent cards
         2. **TA** stores information about teaching assistants including names and email addresses.
   c. User accounts are auto generated upon registration and are stored in the '**system.users**' collection which is located in the admin database
      i. This is automatically set up by MongoDB

Running the Application:

a. *Start the database*
    a. cd into your repository location
    b. cd into ‘backend/thank-a-teacher’
    c. Run the following command
    ```
    npm start
    ```

b. *Start the React application*
    a. cd into your repository
    b. cd into ‘ta-thanks’
    c. Run the following command
    ```
    npm start
    ```
    d. Open your web browser and navigate to http://localhost:3000

Troubleshooting:

Missing Dependencies

a. Run `npm start` again to ensure that all dependencies are installed.
b. If a specific dependency is causing errors, download it directly by running: `npm install package-name`
    i. Relevant dependencies:
        i. `npm install html2canvas`
            1. https://html2canvas.hertzen.com/
        ii. `npm install axios`
            1. https://axios-http.com/docs/intro
        iii. `npm install emailjs`
            1. https://www.emailjs.com/docs/sdk/installation/
        iv. `npm install react-draggable`
            1. https://www.npmjs.com/package/react-draggable

TA Search not Populating

a. Ensure that the database is running alongside the React application.
b. If the React application was started before the database – refresh the page.

TA Inbox not populated with sent cards

a. Ensure that when the card is sent it is received in the database terminal.
    a. The ID string associated with the card should be shown in the terminal.
b. Make sure that the account being logged into is marked 'isTA' in the MongoDB database.
    a. After editing the database, restart the application and login to the TA account.

Email not being sent to the TA account

a. Ensure that you are logged into an account before sending any cards through the application.
    a. Also ensure that a TA has been selected in the search menu.
b. Check the associated parameters with the EmailJS call and ensure that they use the correct template ID, emailID, and public key.

    a. Also ensure that the templateParameters are filled out and are managed correctly.

c. Test the template in your EmailJS account by navigating to the '**Create Template'** page and selecting edit.
    a. You can send a test email here by selecting the '**Test It**' button.
d. Check the logs on your EmailJS account by selecting '**Email History**' on the left navigation.