COMMUNICATION TEMPLATE REPOSITORY APPLICATION

Team Name: BugCurse

Institute: St. Thomas' College of Engineering and Technology, Kolkata, India

Team members details

Team Name	Team BugCurse	
Institute	St. Thomas' College of Engineering and Technology, Kolkata, India	
Team Members	1 (Loador)	2
Name	1 (Leader)	
	Nabarun Kar	Sounav Saha
Batch		
	2019-2023	2019-2023

Deliverables

- Build an application for creating letters/document templates as well as editing any existing templates.
- The application should also include a maker-checker mechanism, i.e., after the creation of the template, submit it to internal departments (legal, marketing, compliance, business head) for approval.
- Post the approval, the template would be available for usage/consumption
- The template should have placeholders provisioned to include run-time attributes related to the customer. This would include:
 - Customer Name
 - Loan Agreement Number
 - Asset Details
 - Loan Details
 - Loan Schedule Details
 - Other information like Guarantor / Insurance / Credit Shield, etc.
- The application should have the ability to invoke these templates through APIs to create an actual document which can then be e-mailed or downloaded
- Provide support for Vernacular templates for at least two languages. Any two languages out of Hindi, Marathi, Tamil, Bengali, Kannada, Telugu

Use-cases

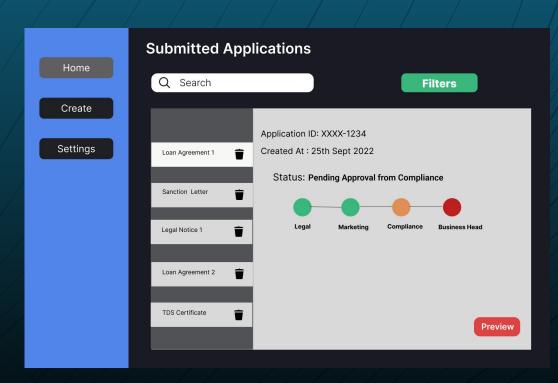
For every company, this will reduce the reliance on hard copies and provide easy access to customers and channel partners. There will also be an online record of when the last change was done and the approvers of the content and template.

With the regular guideline changes from the central bank, having an online template repository also helps to ensure that the company can quickly make the changes in the documents and it will help reduce costs, rework, and effort.

PROPOSED SOLUTION

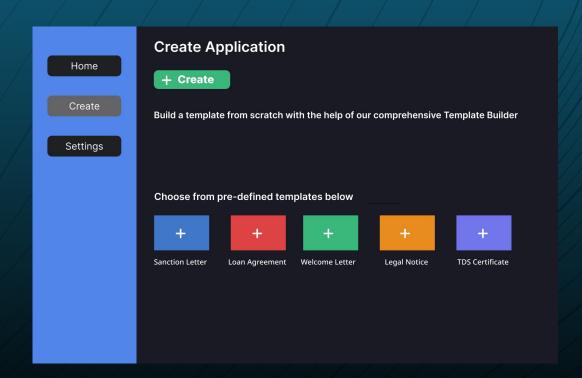
The software is going to have a number of pages to solve the problem at hand. At the **creators'** end,

 The homepage will contain all the letters drawn up by this specific user.
 The user can click on any of these letters to view the approval status of that letter along with the application id and the date the letter was created.

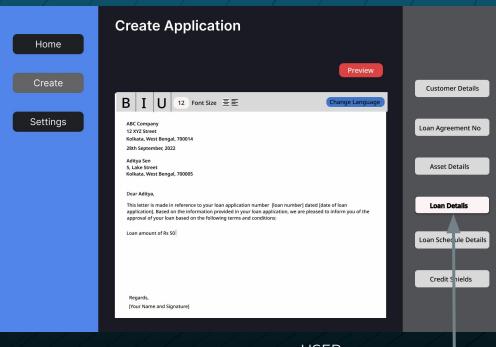


From the navigation bar, the user can navigate to the CREATE section of our application where they can draft the letter they want to create.

 First, they would need to choose from one of the several available pre-defined templates or create a template of their own if they have the necessary permissions.



- Upon choosing a template, they will be taken to the next page where they will find that the letter is complete with the exception of all the user-specific details.
- At this stage, the creator needs to enter the user specific details in the fields as mentioned in the screen to complete the letter.
- Once all the details are finalized, the **creator** has to click on preview to view a preview of the entire letter before sending it for approval. It is sent out to the appropriate department automatically according to the pre-set rules.



USER SPECIFIC DETAILS

THE PREVIEW PAGE

Preview Application

Go Back

Send for Approva

Create

Home

Settings

ABC Company

12 XYZ Street

Kolkata, West Bengal, 700014

28th September, 2022

Aditya Sen

5, Lake Street

Kolkata, West Bengal, 700005

Dear Aditya,

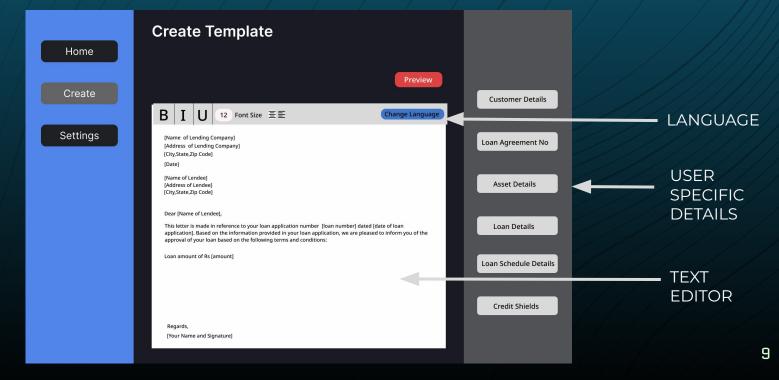
This letter is made in reference to your loan application number [loan number] dated [date of loan application]. Based on the information provided in your loan application, we are pleased to inform you of the approval of your loan based on the following terms and conditions:

Loan amount of Rs 5000000

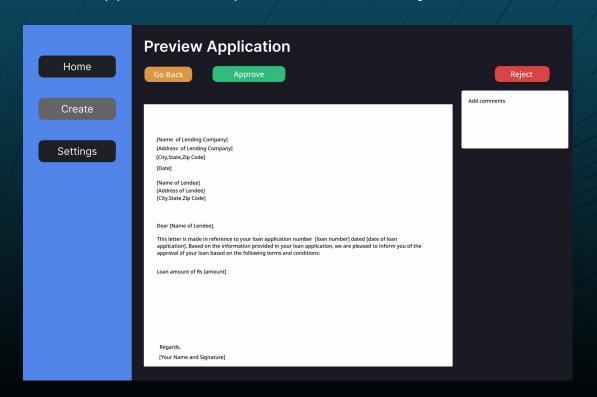
Regards,

[Your Name and Signature]

Creators who have the necessary permissions will also be able to create their own templates by clicking on the create button. This section comes fully equipped with a powerful text editor for making text-size, font, style changes if required. This will ensure the creators can create the letters in the language they are comfortable in and send it to a customer with a different language preference without any hassle.



The **approvers** will be able to see all the letters that are pending approval from their end. They have the choice to either approve or reject the letter drawn up. If the letter is approved, the **creator** will be able to publish it or if the letter needs further approval from a different department(s) it gets sent to the next one automatically. Otherwise, the approver has to provide reasons for rejection.

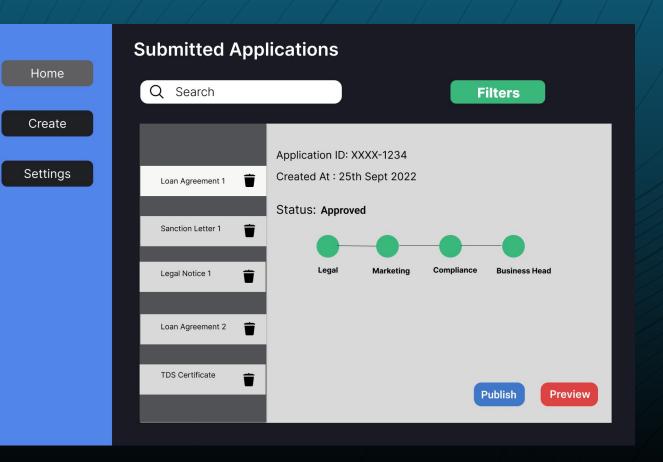


When a letter gets fully approved, the **creator** will be able to publish it(download the letter in PDF format or choose the email feature and send it to the concerned person).

Hitting download fires an **API** call which converts the which converts the HTML string generated on the text editor into a downloadable PDF.

There will be a feature to dynamically change the language at any point before it has been sent for approval for the **creator** of the letter.

A FULLY APPROVED APPLICATION



Bonus Features

- Enabling Digital Signature thereby capturing customer's consent
- Secure the document access through password protection by using the Encryption API (Java). We
 can encrypt the PDF document by invoking the EncryptionServiceClient object's
 encryptPDFUsingPassword method. This method returns a returns a com.adobe.idp.Document
 object that contains a password-encrypted PDF document.
- A reminder feature through which a reminder is sent out to the concerned personnel when a letter has not been approved or processed for approval within a pre-defined number of days.