# Internship Project Report

\*\*Project Title:\*\* SaaS-Style Landing Page with Sign-Up and Email Verification

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## 2. Introduction

This project is developed as part of an internship requirement. It is a SaaS-style landing page integrated with a sign-up form, email verification system, and backend storage using MongoDB. The project demonstrates full-stack development skills using technologies like HTML, Tailwind CSS, Node.js, Express, MongoDB, and Nodemailer.

SaaS (Software as a Service) applications are very common in the industry, and this project mimics a simple version of such platforms, focusing on onboarding new users securely through sign-up and verification.

## 2. Objectives

- Build a responsive landing page using Tailwind CSS.

- Collect user data using a sign-up form.

- Store data in MongoDB securely.

- Send verification emails using Nodemailer.

- Redirect users to a thank-you dashboard after verification.

## 3. Tools and Technologies

• Frontend: HTML5, Tailwind CSS

• Backend: Node.js, Express.js

• Database: MongoDB, Mongoose

• Email Service: Nodemailer

• Environment Configuration: dotenv

• Version Control: Git & GitHub

## 4. Project Architecture

The project follows a simple MVC-like structure. The views (HTML files) are stored in the views folder, models (like User.js) are in the models folder, and routing and logic are handled in server.js.

The `.env` file is used for storing configuration variables like MongoDB URI and email credentials. These sensitive files are excluded from GitHub using `.gitignore`.

## 5. Working Process

1. The user lands on the homepage and fills in the sign-up form.  
2. The form data is sent to the Express backend, which stores it in MongoDB.  
3. An email is sent to the user’s email address with a verification link.  
4. Once the user clicks the link, they are marked as verified in the database.  
5. The user is redirected to a thank-you page.

## 6. Output Screens

The following are the main screens developed in this project:

- Landing page with sign-up form

- Verification email layout

- Thank-you dashboard

## 7. Conclusion

This project successfully demonstrates the development of a basic SaaS-style landing page with sign-up and verification workflow. It uses full-stack technologies and ensures user authentication through email verification.

It helped me understand the integration of frontend and backend systems, use of databases, and importance of secure credential handling using environment variables.

## 8. Future Scope

- Add login and authentication system using bcrypt & JWT.

- Build a dashboard for verified users.

- Integrate a pricing plan UI and subscription system.

- Deploy the app using Vercel (frontend) and Render (backend).