SaaS Landing Page with Email Verification

Introduction

This project is developed as part of an internship to demonstrate the workflow of a SaaS-style landing page with backend integration and email verification. The system allows users to register, stores their data in a database, and verifies their identity through a confirmation email.

Abstract

The project showcases a complete flow from user registration to email verification using Node.js, Express, MongoDB, and Nodemailer. After signing up, the user receives a verification email via Ethereal. Clicking the verification link updates their status in the database and shows a confirmation message in the browser. This workflow represents a real-world SaaS onboarding process in a simplified form.

Tools Used

- Node.js with Express.js for backend server
- MongoDB for database
- Nodemailer with Ethereal for test emails
- HTML for the landing page frontend
- VS Code as IDE

Steps Involved in Building the Project

1. Initialized Node.js project and installed dependencies (express, mongoose, nodemailer, dotenv).
2. Configured MongoDB connection and created User schema with fields: name, email, and verified.
3. Implemented signup route:
- Saved user in MongoDB.
- Sent verification email using Nodemailer with Ethereal.
- Logged preview email link in console.
4. Implemented verify route:
- Validated user by ID.
- Updated user status to verified.
- Displayed success message ("Email Verified Successfully ■") in browser.
5. Tested the entire workflow by signing up, checking the Ethereal preview email, and verifying the link.

Conclusion

This project successfully demonstrates how to build a SaaS-style landing page with email verification. It integrates backend, database, and email functionality to ensure that users are properly registered and verified. The implementation provides a practical understanding of user onboarding in SaaS applications and serves as a valuable internship learning experience.