

# SaaS-Style Landing Page + Sign-Up Workflow

## 1. Introduction

The *SaaS-Style Landing Page + Sign-Up Workflow* project is a full-stack web application built to demonstrate how a Software-as-a-Service (SaaS) platform manages its user onboarding process.

It integrates a modern, responsive landing page with a working user registration system and automated email verification. The main objective is to simulate how SaaS startups convert visitors into verified users by combining front end design with backend logic.

## 2. Abstract

This project represents a simplified version of a SaaS product onboarding workflow. Users can sign up using an email ID, and the system automatically sends a verification email to confirm registration.

The frontend uses **HTML, CSS, and JavaScript** for interface design, while the backend uses **Node.js and Express.js** to handle data and communication. The user details are stored in **MongoDB**, and **Nodemailer** manages email verification.

This full-stack integration demonstrates practical implementation of modern web technologies for real-world applications.

## 3. Tools and Technologies Used

- **Frontend:** HTML5, CSS3, JavaScript
- **Backend:** Node.js, Express.js
- **Database:** MongoDB
- **Email Service:** Nodemailer
- **Environment Management:** dotenv
- **Version Control:** Git & GitHub

- **Deployment:** GitHub Pages / Render / Vercel

## 4. Steps Involved in Building the Project

1. **Project Setup:** Created folder structure and installed Node.js dependencies.
2. **Frontend Design:** Built landing page with sections like Home, Features, and Sign-Up.
3. **Backend Development:** Implemented Express.js routes for registration and verification.
4. **Database Integration:** Connected MongoDB to store user data securely.
5. **Email Verification:** Configured Nodemailer for automated confirmation emails.
6. **Testing & Deployment:** Verified complete workflow and deployed on GitHub Pages and Render.

## 5. Conclusion

The *SaaS-Style Landing Page + Sign-Up Workflow* project successfully demonstrates the complete SaaS onboarding flow — from an engaging landing page to secure user registration and automated email verification.

It integrates both front-end and backend technologies, offering practical exposure to full-stack web development. This project can be extended with advanced features like login authentication, password reset, and analytics for a more robust SaaS platform.