# Project Report

**Project title:** SaaS User Signup System with Email Verification and Responsive UI

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## Technologies Used:

**Frontend:** HTML, CSS, JavaScript

**Backend:** Node.js, Express.js

**Database:** MongoDB (Cloud via MongoDB Atlas)

**Email Service:** Nodemailer with Gmail SMTP

**Other Tools:** dotenv, body-parser, cors

## Project Overview:

This project is a full-stack implementation of a SaaS-style landing page that enables users to sign up with their name, email, and password, after which they receive an email verification message. The application includes a visually appealing responsive design with hover effects and form validations.

## Key Features:

**Frontend:**

- Modern signup form with input validation.

- Responsive layout using flexbox.

- Background image with full coverage and a transparent form overlay.

- Hover effects including glow and image background.

- Redirection to a thank you page after signup.

**Backend:**

- Receives user data via POST request to /signup.

- Stores user data in MongoDB.

- Sends email via Nodemailer.

**Security:**

- Environment variables for sensitive data using .env file.

- App Password used for secure SMTP connection.

## Folder Structure:

Saas/

├── public/

│ ├── signup.html

│ ├── thankyou.html

│ ├── sass.html

│ ├── sass.css

├── .env

├── server.js

├── package.json

└── README.md

**Functionality Summary:**

Users fill in a form and submit their details.

Client-side JavaScript validates the inputs and sends the data to the server.

The server stores the data in MongoDB and sends an email via Nodemailer.

Upon success, users are redirected to a thank-you page.

CSS adds animations and a polished UI, including form hover effects and a responsive design**.**

## Challenges Faced:

- SMTP authentication errors initially.

- Resolved by using Gmail App Password with 2FA.

- Enhanced readability with overlay and hover effects.

## Future Improvements:

- Implement email verification links with tokens.

- Add login/logout functionality.

- Host the project on platforms like Render or Netlify.