MAHARASHTRA EDUCATION SOCIETY'S
(SINCE 1860)

MES SENIOR COLLEGE, PUNE
(BBA, BBA - IB, BBA - CA)

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Approved by AICTE, New Delhi & Affiliated to Savitribai Phule Pune University, Pune

Synopsis

Project Title :- Text to Image Generator SaaS App

Submitted By :- Akshad Mahajan   2230047

Objective :-

1. **Text-to-Image Generation**
   a. Develop a system that enables users to input descriptive text prompts and generate high-quality AI-driven images in response.
   b. Provide support for multiple styles, resolutions, and customization options for generated images.

2. **Efficient and Scalable Backend**
   a. Implement a robust backend using Node.js and Express.js to handle requests and manage image generation tasks efficiently.
   b. Ensure scalability to support concurrent user requests and maintain performance under high traffic.

3. **Real-Time Image Generation Updates**
   a. Provide real-time updates on the progress of image generation, such as queue status, rendering stages, and estimated time to completion.

4. **User-Friendly Interface**
   a. Design an intuitive and responsive interface using React.js, ensuring ease of navigation across all devices.
   b. Include features like drag-and-drop functionality, prompt suggestions, and a history of generated images.

5. **Secure User Management**
   a. Implement secure user authentication and authorization, including options for sign-up, login, and password recovery.
   b. Protect user data with encryption and ensure role-based access control for premium features.

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Introduction :-

1. A **Text-to-Image Generator AI SaaS App** allows users to create high-quality visuals from descriptive text prompts using a web-based platform without the need for specialized software or hardware.
2. As a **SaaS (Software as a Service)** solution, it offers seamless accessibility through a web interface, enabling users to generate images from anywhere with an internet connection, eliminating the need for costly infrastructure or technical expertise.
3. This system makes image creation quick and efficient by integrating advanced AI models, providing users with a variety of customizable styles and resolutions. Users can input prompts, refine settings, and generate images effortlessly, saving time and reducing dependency on manual graphic design.

Technology Used :-

1. **Frontend Languages :-**
   a. React JS
   b. CSS
2. **Backend Languages :-**
   a. Node JS
   b. Express
3. **Database :-**
   a. MongoDB

Modules :-
1. Login/Register
2. Contact Us
3. Payment Gateway
4. Image Download Option
5. Social Media Link Icons