GLA UNIVERSITY MATHURA

FULLSTACK PROJECT SYNOPSIS ON AI IMAGE GENERATION APP

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Submitted To: -

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DECLARATION

I hereby declare that the work which is being presented in this Project Report entitled "AI IMAGE GENERATION APP", in partial fulfillment of the requirements for award of the degree of Bachelor of Technology in Computer Science & Engineering under the supervision of Mr. Akash Kumar Choudhary (Technical Trainer) of GLA University, Mathura in the session 2022-23.

Group Members:

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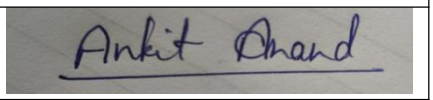
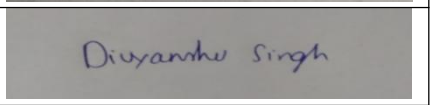
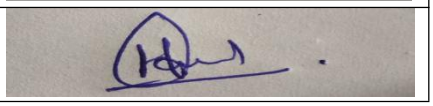
Ankit Anand	**201500097**	
Divyanshu Singh	**201500236**	
Harsh Agarwal	**201500263**	

Course: B.Tech (Computer Science and Engineering)

Year: 3rd

Semester: VI

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Introduction

It is a new AI system platform that can create realistic images and arts from a description in natural language. It is an online platform to in which you can search the items , generate the images with the description of the text.You can also save the AI image generated images. It is designed for the web user who are enthusiast in AI technologies and want a platform to enhance your creative skills.

The main use of this project is to generate the image with some specific and you will get the image or you can save , share or download the image.

The main benefit of using this is that you can get all the image free of cost and it is also user-friendly.

Primary Reasons to Choose This Project

We choose this project because this is the era of AI and we also want to enhance the knowledge about this technology.

Software Requirement

- Front-End Technologies: React JS, Tailwind CSS
- Back-End Technologies:Open AI, Mongo DB, Express, Node JS
- Language Used: JavaScript
- Database: Mongo DB
- Web Browser: Chrome, Firebox, Microsoft Edge

Hardware Requirement

- Processor : Minimum Dual core
- Operating System : Windows
- Ram : Minimum 512mb
- Hardware Devices: Mobile or computer
- Hard disk : Minimum 4Gb
- Display : Any display for output

Front-End and Back-End

For Front-End we use-

React: -

React framework is an open-source JavaScript framework and library developed by Facebook, it's used for building interactive user interface and web applications quickly and efficiently with significantly less code than you would with vanilla java Scripts.\

Tailwind CSS: -

A utility-first CSS framework packed with classes like flex, pt-4, text-center and rotate 90 that can be composed to build any design, directly in your markup. Tailwind CSS is the only framework that I've seen on large teams, It's easy to customize, adapts to any design and the build size in tiny.

JavaScript: -

Java Scripts is a scripting language that enable you to create dynamically updating, content, control multimedia, animate image, and pretty much everything else.

For Back-End we use: -

Mongo Db: -

Mongo dB is an open source NoSQL database management program. NoSQL is used as an alternative to traditional relational databases. NoSQL database are quite useful for working with large sets of distributed data. Mongo DB is a tool that can manage document-oriented information, store are retrieve information

Node JS

Nodejs is an open-source, cross-platform javascript runtime environment and library for running web application outside the clint's browser. Node is used extensively for server-side programming, making it possible for developers to use javascript for clint-side and server-sde code without needing to learn an additional language.

Open CV

OpenCV is a highly optimized library with focus on real-time applications. Cross-Platform C++, Python and Java interfaces support Linux, MacOS, Windows, iOS, and Android.

Idea

Artificial intelligence is changing the landscape of many industries, and one area where AI is having a major impact is with image creation.

The AI images generators that convert text to image using artificial algorithms, These AI tools can be a great way to quickly turn your intelligence algorithm into visual representations in just a matter of second.

The person who is using this website is able to download , save and share the image with other user and generate any type of image within few second.

Objective

An AI image generator is a computer program that create image from scratch using artificial intelligence algorithms.

The objective is AI image generator for various purpose, such as creating images for 3D models, advertising, generating images for blogs pots, making art etc.

AI image generators can produce high-quality art and realistic image much faster than humans.

AI image generator helps artist develop ideas for new works they need to do. For example a concept artist ca create many ideas for video game in less than an hour.

The another objective is just you have to give the text the algorithm generate and image similar to the text meaning.

Module Description

Authentication

This module is responsible for checking the authentication of the user whether the account is valid or not.

Home page

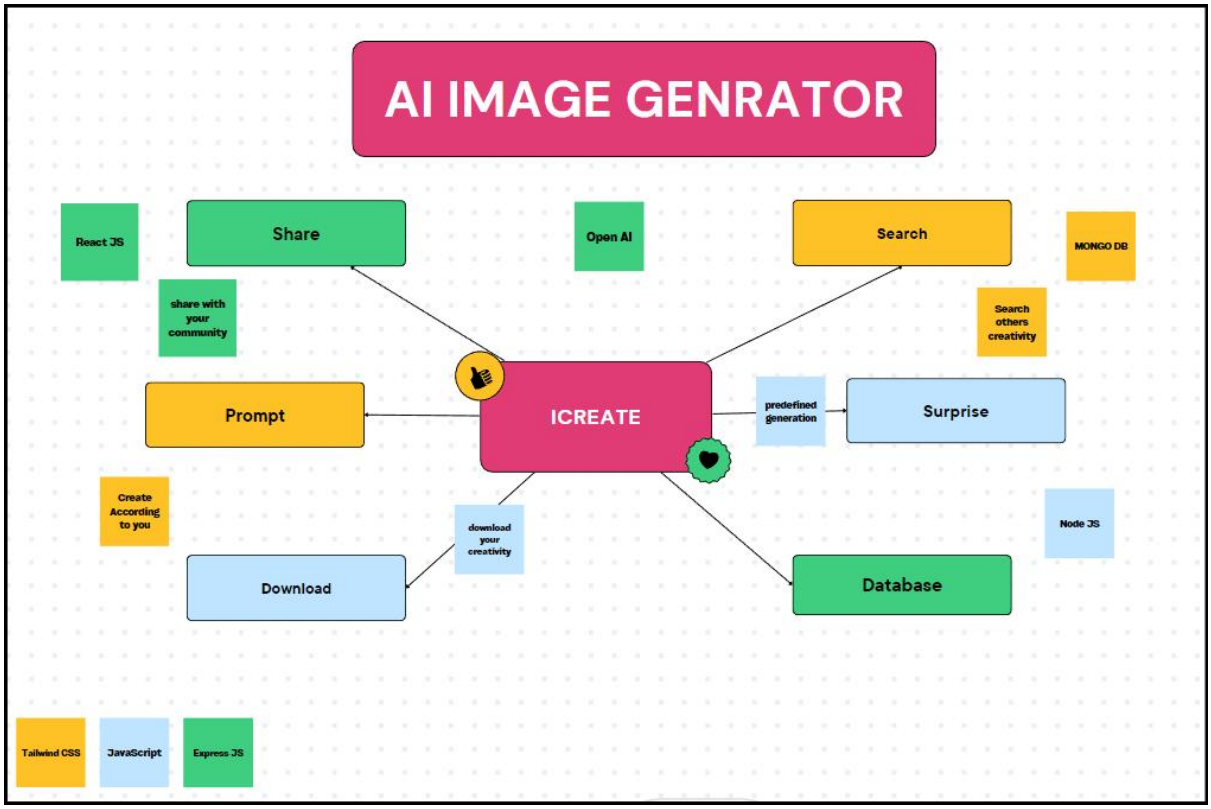
This is the main part of the application where all the image display generates by the user.

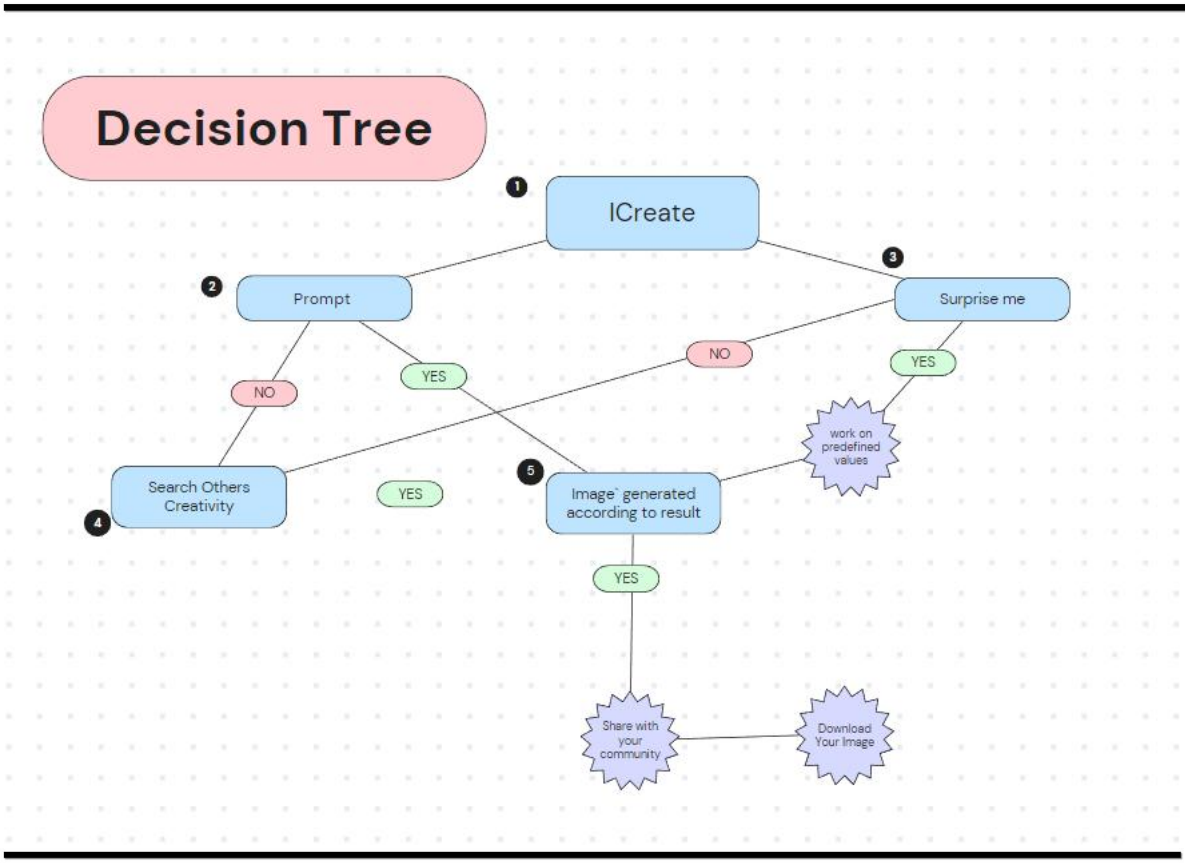
Download

This module contains all the image, the user downloaded previously.

Share

This module is responsible to share the image to the other user.


AI IMAGE GENRATOR
React JS
Share
Open AI
Search
MONGO DB
share with your community
Search others creativity
Prompt
ICREATE
predefined generation
Surprise
Create According to you
download your creativity
Node JS
Download
Database
Tailwind CSS
JavaScript
Express JS


Decision Tree
1
ICreate
2
Prompt
3
Surprise me
NO
YES
NO
YES
work on predefined values
4
Search Others Creativity
YES
5
Image generated according to result
YES
Share with your community
Download Your Image

Bibliography

React -> **React Documentation**

Tailwind CSS -> **Tailwind css Documentation**

Node JS -> **Nodejs documentation**

Mondo DB -> **Mongodb documentation**

Express JS -> **Express js Documentation**

JavaScript -> **JavaScript's Documentation**

Open AI -> **Dall-E Model**

Git Hub Link:-

https://github.com/codeBurner0/AIProject

Reference:-

Node JS Documentation, React Documentation, Express JS Documentation, Open AI, Mongo Db Documentation, Tailwind CSS Documentation,

Stack Overflow, GFG, YouTube.