WEEK-10

WEB DEVELOPMENT USING AGENTIC AI, CI/CD PIPELINE AND HOSTING

Agen c AI is a new wave of ar ficial intelligence that acts on its own ini a ve, proac vely pursuing goals and solving problems without constant human direc on. Imagine a digital assistant that doesn't just wait for instruc ons but an cipates what needs to be handled, takes ac on, learns from results, and adapts as circumstances change—almost like a colleague who manages projects, solves unexpected issues, and collaborates with both people and machines. This humanized approach helps illustrate why agen c AI is considered a major step forward in how humans and technology work together.

How Agen c AI Differs from Other AI

What sets agen c AI apart is its blend of reasoning, contextual awareness, and con nuous op miza on. Tradi onal so ware needs to be told exactly what to do, following the same steps each me. Genera ve AI creates content but usually only when prompted. Agen c AI, however, translates knowledge into ac on, iden fying which steps to take in real me, o en breaking goals into subtasks and adjus ng plans as it goes. It's less like a highly trained tool and more like a project manager that can handle surprises and nuance.

Key Characteris cs

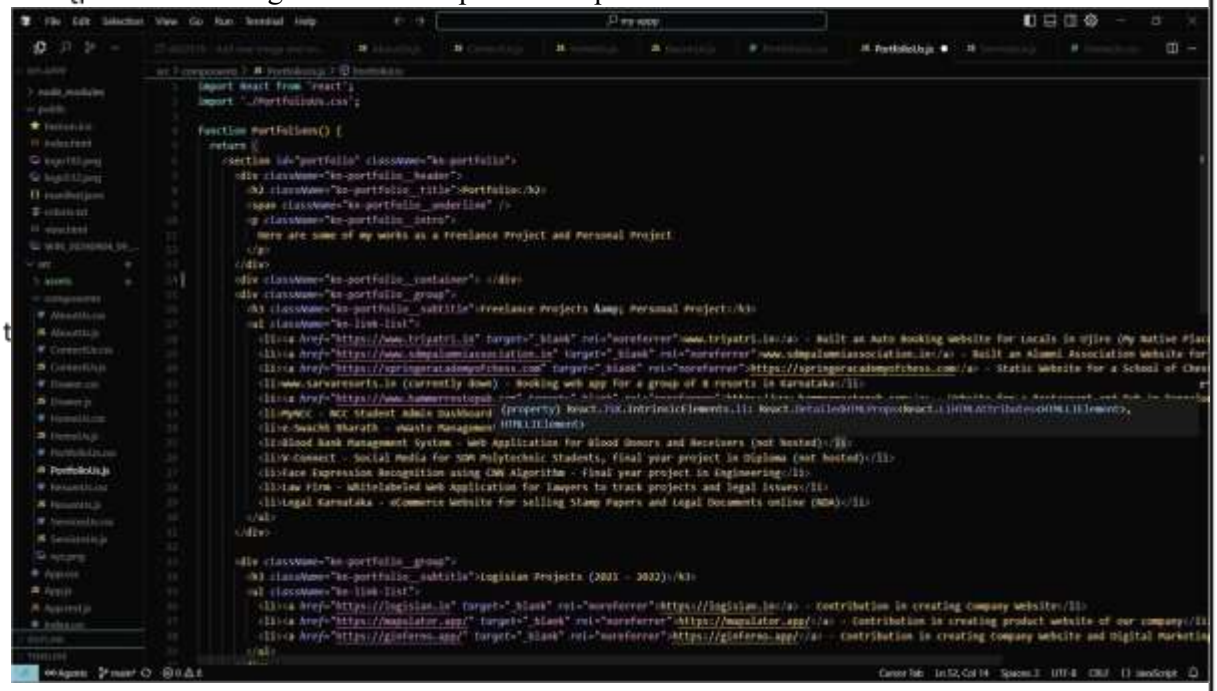
A few quali es define this new breed of AI:

- Proac ve: Instead of wai ng for a signal, agen c AI an cipates needs and ini ates ac ons.
- Adaptable: It learns from each interac on and adjusts its behavior to fit new scenarios.
- Context-Aware: It interprets feedback, changing condi ons, and user intent, making decisions based on what's happening in the moment.
- Collabora ve: Agen c AI can coordinate with other AI agents, humans, and digital systems—much like a team player in a workplace.
- Specialized: Systems o en comprise mul ple agents, each with a deep understanding of a certain domain, working together like a crew of experts.

Por olio development using agen c AI:

- Login to cursor AI text-editor
- Then create a app using npx create-react-app my_906F
- Then take screenshots of an por olio which you want to build
- Then in chat area add the image and the components to be changed with the prompt

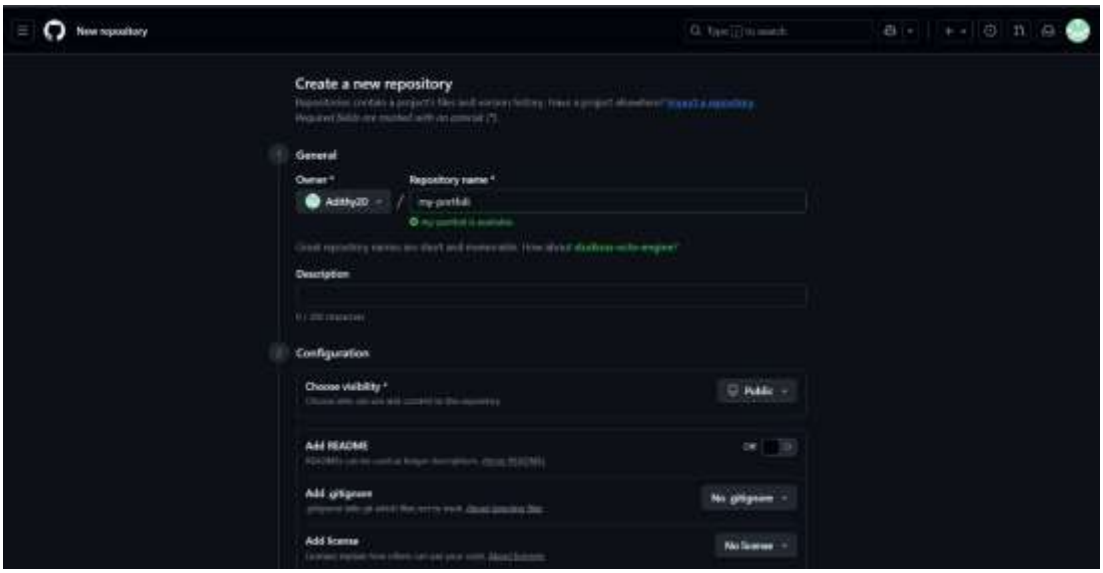
  Convert this design into the components required



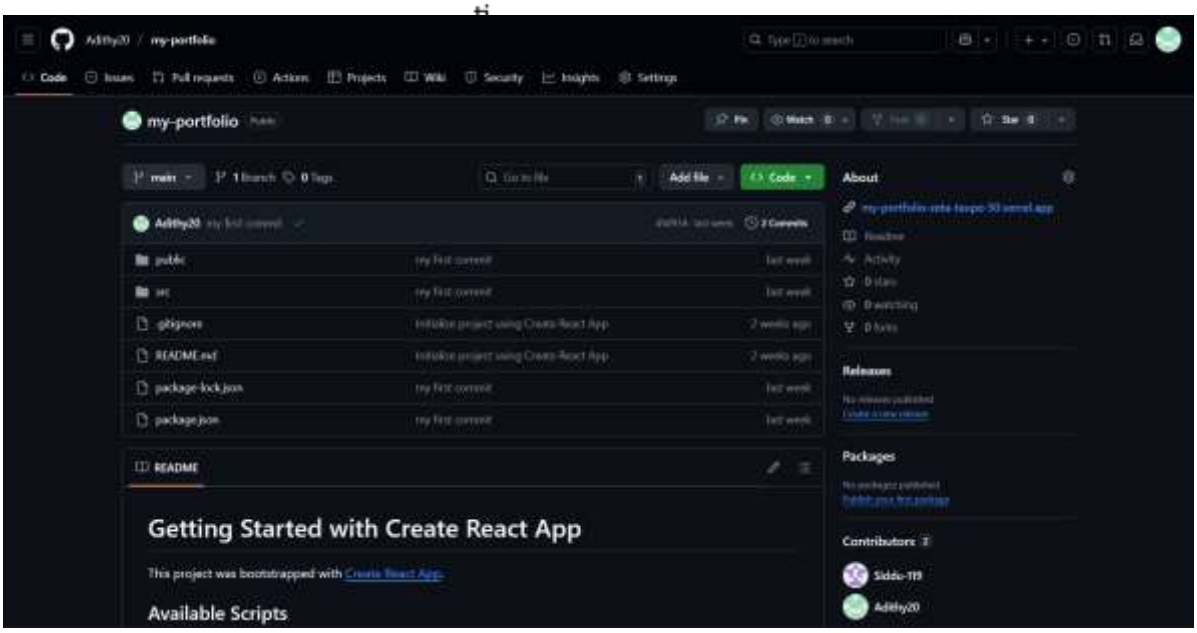
then run the app using npm start

Crea ng git repository and to push:

- Login to GitHub using The username and password
- Create the repository as My-por olio

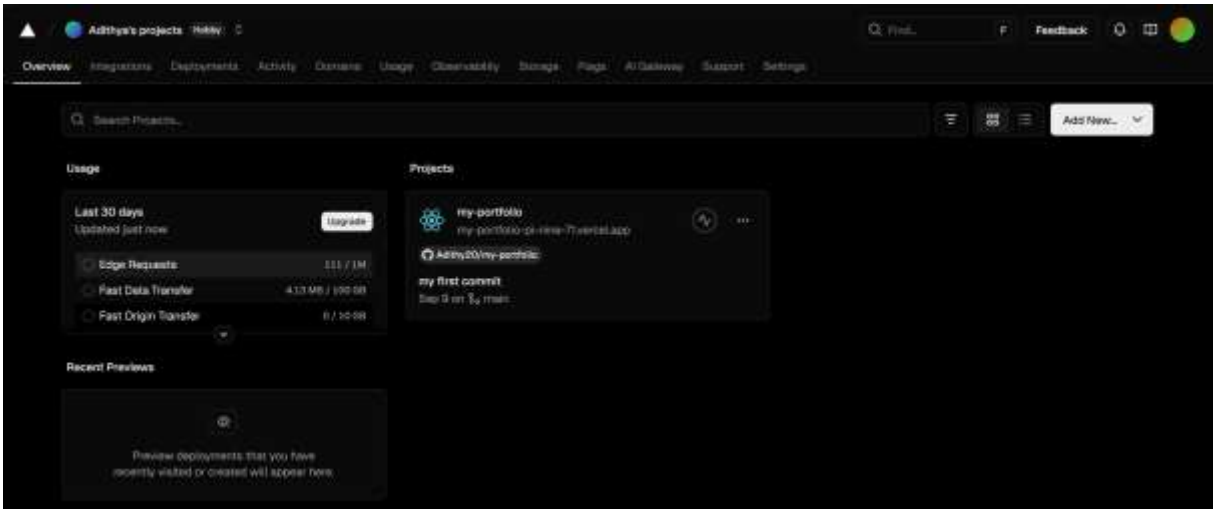


- Then enter the commands using the git commands
- A er pushing to git verify once



Deployment:

- Login to vercel in browser using email
- Then deploy the app impor ng the repository from git
- Then complete deployment



ti

ti ti

ti ti ti ft

ti ti ti

ti ti ti ft

ti

ti

ti

ti

ti ti ti ti ti

ti

ti

ti

ti ti

ft ti