Genesis 1.0
Innovate, Collaborate, Dominate!

Team Details

a. **Team name: OneDev**
b. **Team leader name: Sachin yadav**
c. **Problem Statement: Open Innovation**

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Brief about your solution and problem statement addressing

Problem Statement

Most traditional to-do applications list tasks without emphasizing priority. As a result, users often feel overwhelmed and struggle to decide which task should be done first.

- There is a need for a simple system that:
- Highlights task importance
- Reduces Procrastination
- Reduces decision fatigue
- Confusion on what to do
- User ends up doing less important task first and forgets to do the urgent task which leads to panics on deadline

Solution : PriorityTasks

- PriorityTask introduces a "priority-first workflow" where tasks are organized based on their importance.

- Users can quickly identify high-priority tasks and focus their energy on meaningful work.

- The application keeps the interface minimal and distraction-free, making it suitable for students and individual learners.

- AI is integrated for user Assistance not as distraction (AI reply is short and to point)

- User can repeat or do the task later option

- Clean dashboard and progress bar to keep track of the progress

- Login Todos saved for anywhere access

Opportunities

a. ## How different is it from any of the other existing ideas?

This is proven method to boast productivity used by President Dwight D. Eisenhower, the 34th President of the United States.It is best for long-term projects and daily todos.This can help user to bring discipline and consistency in his life

b. ## How will it be able to solve the problem?

The main page of the webapp is minimal with 4 quadrants on the graph of importance V/S urgent.
User can enter there todos in any of the for quadrant and it is saved for that date.
There is new Todos for each day so user can keep track of progress, plan in advance and see the past performance to improve.
User can log-In by Google or Github account by Nextauth and start saving his data on our servers (for not sign-in users there data is stored on localStorage only)
User can log-in to same account on other devices to access there todo from anywhere
There is personalization dashboard for each user which shows his satistical overall progress
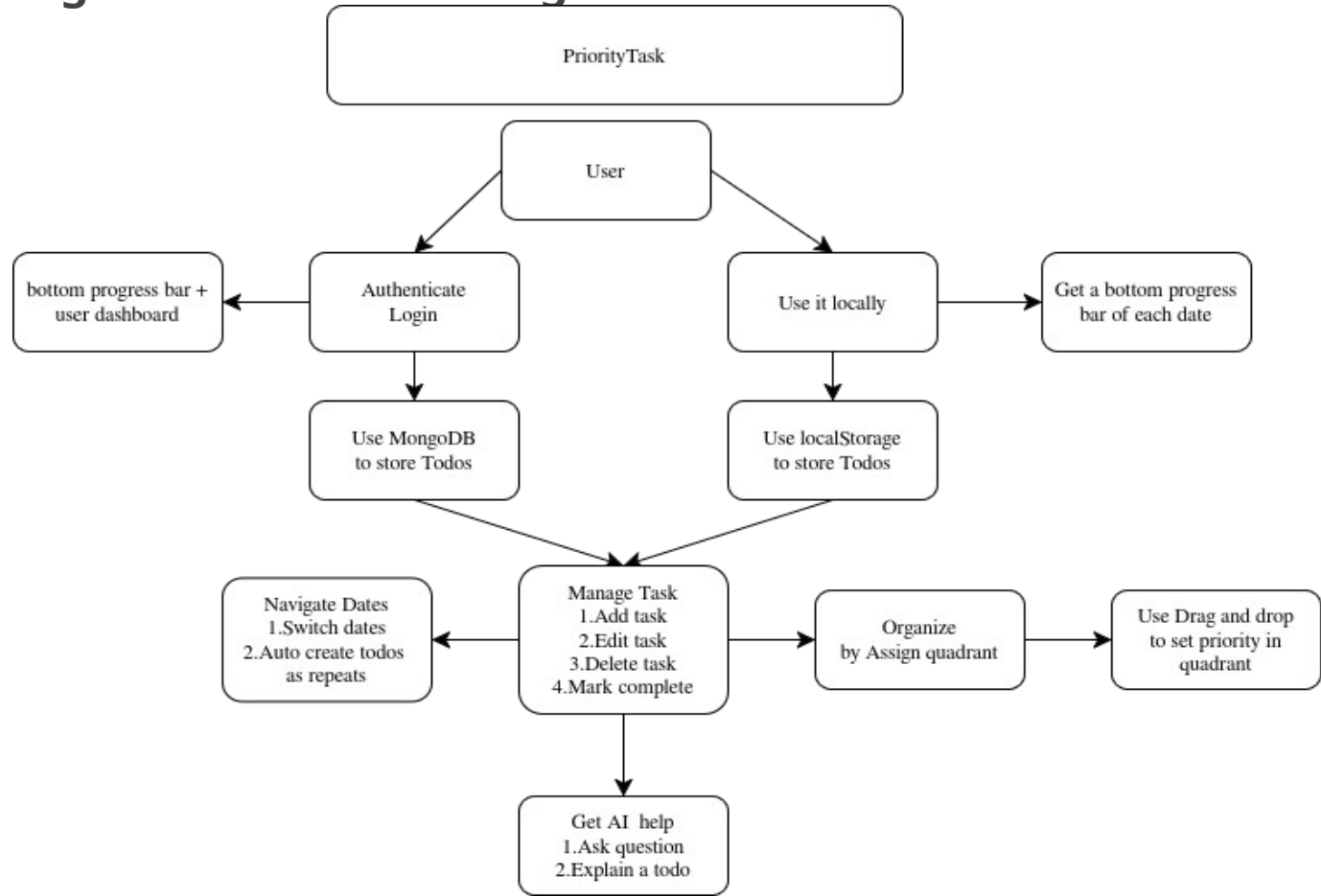Ask AI feature for todos with personalization response

List of features offered by the solution

1) There is new page for every date with 4 quadrants on the important V/S urgent graph
2) Drag and drop feature for each todo in it's quadrant, to emphasize on the order priority in that quadrant
3) AI can explain and answer any Todos and can ask any particular query and AI will give answer in 20-25 word.
4) This has responsive UI for all pages for desktop and mobile mode.
5) There is 3 dot menu with options of repeating a todo, doing it tomorrow and asking AI abot this todo.
6) Bottom stick progress bar and user personalization dashboard for users to see progress
7) Login by Google and Github to save Todos to the MongoDB Atlas database so, user can log-in to there account and acces todos from anywhere and everywhere.
8) User enters at Todos of the current date and can add Todos for present and any other day using the UI.
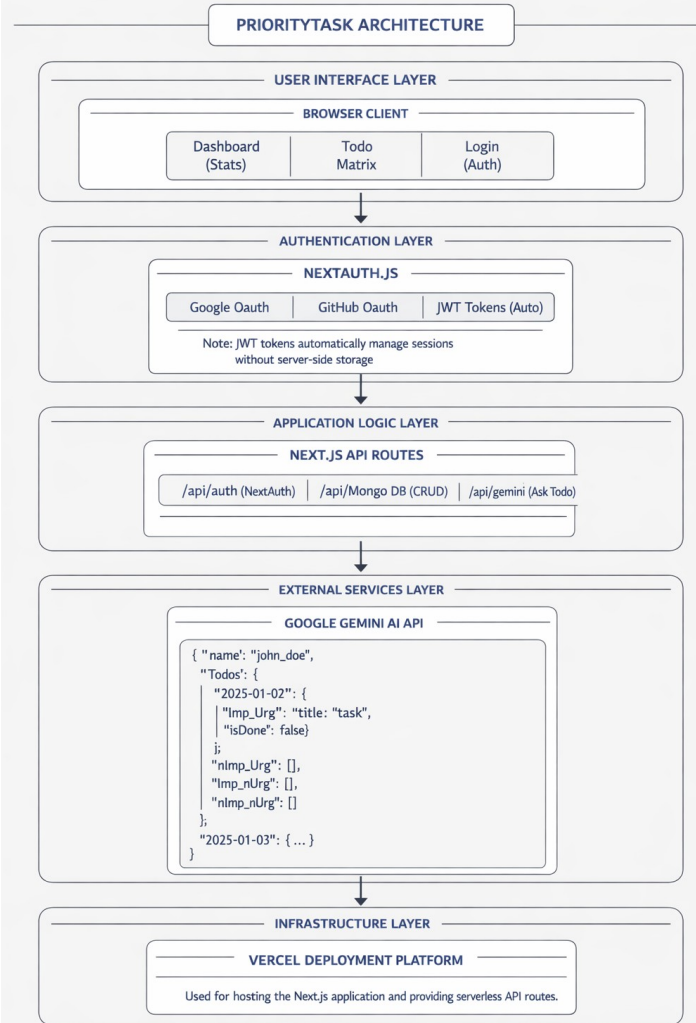
Google Technologies used in the solution :

- **Gemini-flask-2.5 API key from google AI studios is used as backend to prompt and get response for AI feature.**
- **User prompt is modified before hand to generate a 20-25 word response to the user's query.**
- **There is a explain AI button on todo card so user can quote a particular todo and ask about it.**
- **Prompt includes username, current date and all todos of the user to generate a personalization response to user.**

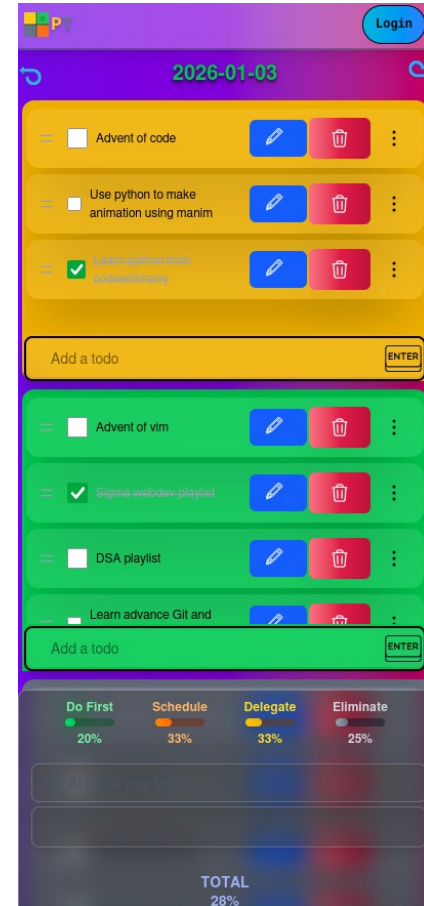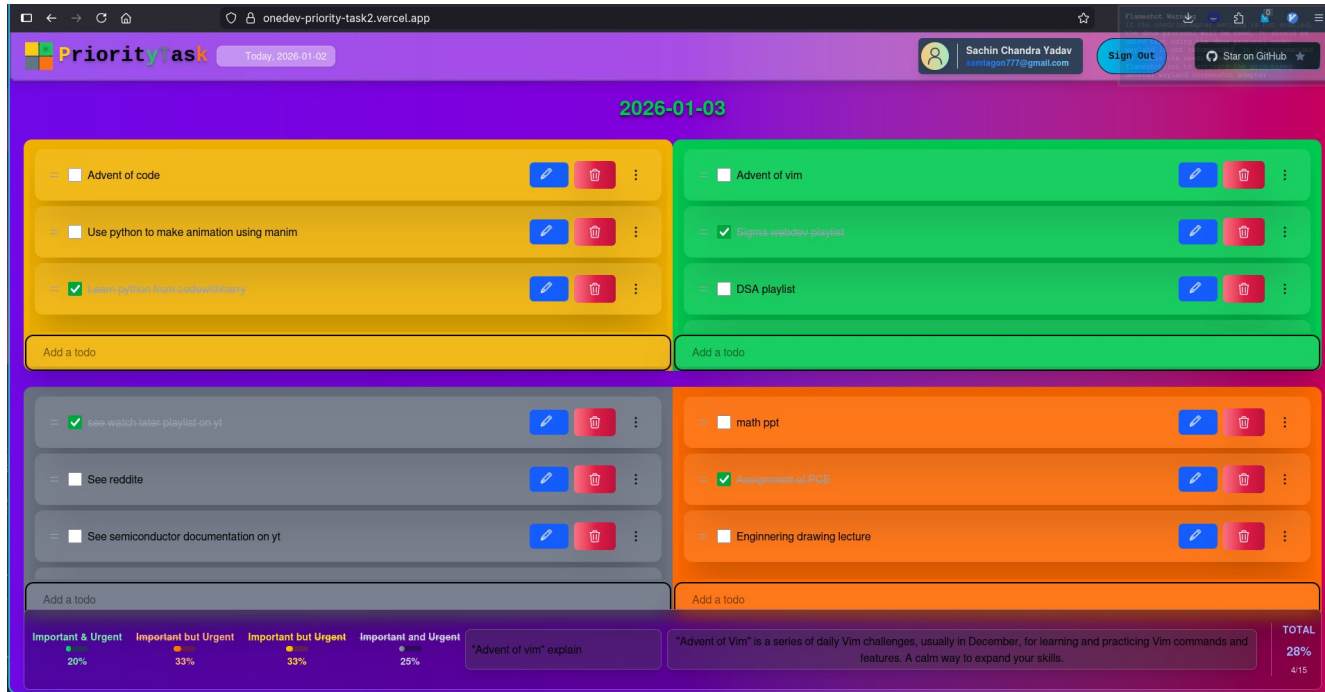# Process flow diagram or Use-case diagram

Architecture diagram of the proposed solution

- Used vercel for deployment as a next.js app

- Main data structure of this app is in

  lib/TodoContext.jsx named Todos(Object)

- User schema includes name and Todos

PRIORITYTASK ARCHITECTURE

USER INTERFACE LAYER

BROWSER CLIENT

Dashboard (Stats)	Todo Matrix	Login (Auth)

AUTHENTICATION LAYER

NEXTAUTH.JS

Google Oauth	GitHub Oauth	JWT Tokens (Auto)

Note: JWT tokens automatically manage sessions without server-side storage

APPLICATION LOGIC LAYER

NEXT.JS API ROUTES

/api/auth (NextAuth)	/api/Mongo DB (CRUD)	/api/gemini (Ask Todo)

EXTERNAL SERVICES LAYER

GOOGLE GEMINI AI API

```
{ "name": "john_doe",
  "Todos': {
    "2025-01-02": {
      "Imp_Urg": "title: "task",
      "isDone": false}
    };
    "nImp_Urg": [],
    "Imp_nUrg": [],
    "nImp_nUrg": []
  };
  "2025-01-03": { ... }
}
```

INFRASTRUCTURE LAYER

VERCEL DEPLOYMENT PLATFORM

Used for hosting the Next.js application and providing serverless API routes.

Snapshots of the MVP

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- Github repo : https://github.com/SachinyadavAug20/Onedev-PriorityTask

- MVP : https://onedev-priority-task2.vercel.app/

- Video link : https://youtu.be/zD5PzpIpNcI?si=xtENTWy2v70Eian5