Friends Blogging web app.

Stage-1   Planning and requirement analysis

- Project scope
  - Having users
  - Making friends
  - posting Private, public blogs
  - Sharing public blogs
- Objectives and goals
  - Building basic frontend and backend and having a database.
- Resource planning
  - Using Vercel for hosting frontend and backend
  - Using Aiven and Prisma accelerate for database and connection pooling respectively. Using Prisma ORM in the backend for connecting to the database and doing CRUD operations.
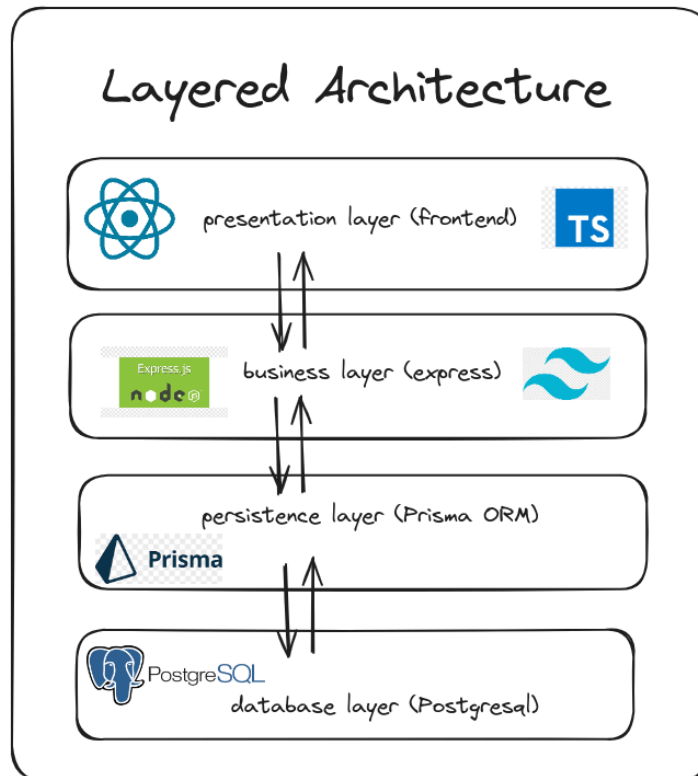 - Using typescript for frontend in react and backend in express and using tailwind css for frontend ui.

Stage-2   Defining Requirements

- Functional Requirements
  - Users should be able to signup and login
  - Users should be able to create, edit and post, delete a blog
  - Users should be able to make a blog public or private and post it in a group.
  - Users should be able to make friends
  - Friends should be able to react to the posts by others.
  - User should be able to see all blogs they posted using filters
  - Users should be able to see friends' blogs (only shared and public).

- Technical requirements
  - Frontend:
    - React
    - Typescript
    - Tailwind Css

  - Backend:
    - Express
    - Prisma ORM
    - Axios
    - Authentication using JWT

- Extra requirements

Users should be able to add images in the blogs.

Step - 3 Designing architecture

- we are going with layered architecture as follows

We create UML sequence and class diagram , database ER diagram for modeling the web app before starting the actual code.

STep 4 (developing product)
We will use github for tracking versions.

Step 5 product testing and integration
For backend testing we will use postman or thunder client.
For frontend we will do the testing manually for correctness and responsiveness.

Step 6 deployment and maintenance.
- For deployment we use Vercel
- For the database we will use Aiven postgresql database and Prisma accelerate connection pool .