Test creaeting pdf from markdown
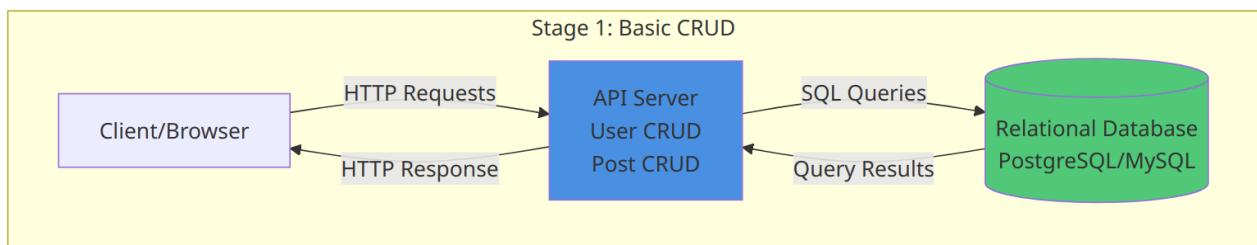
Generating single mermaid chart 🎨 Rendered Mermaid diagram 1 Generating single mermaid chart 🎨 Rendered Mermaid diagram 2 Generating single mermaid chart 🎨 Rendered Mermaid diagram 3 # Social Media System Design - Progressive Stages

Stage 1: Basic CRUD Operations
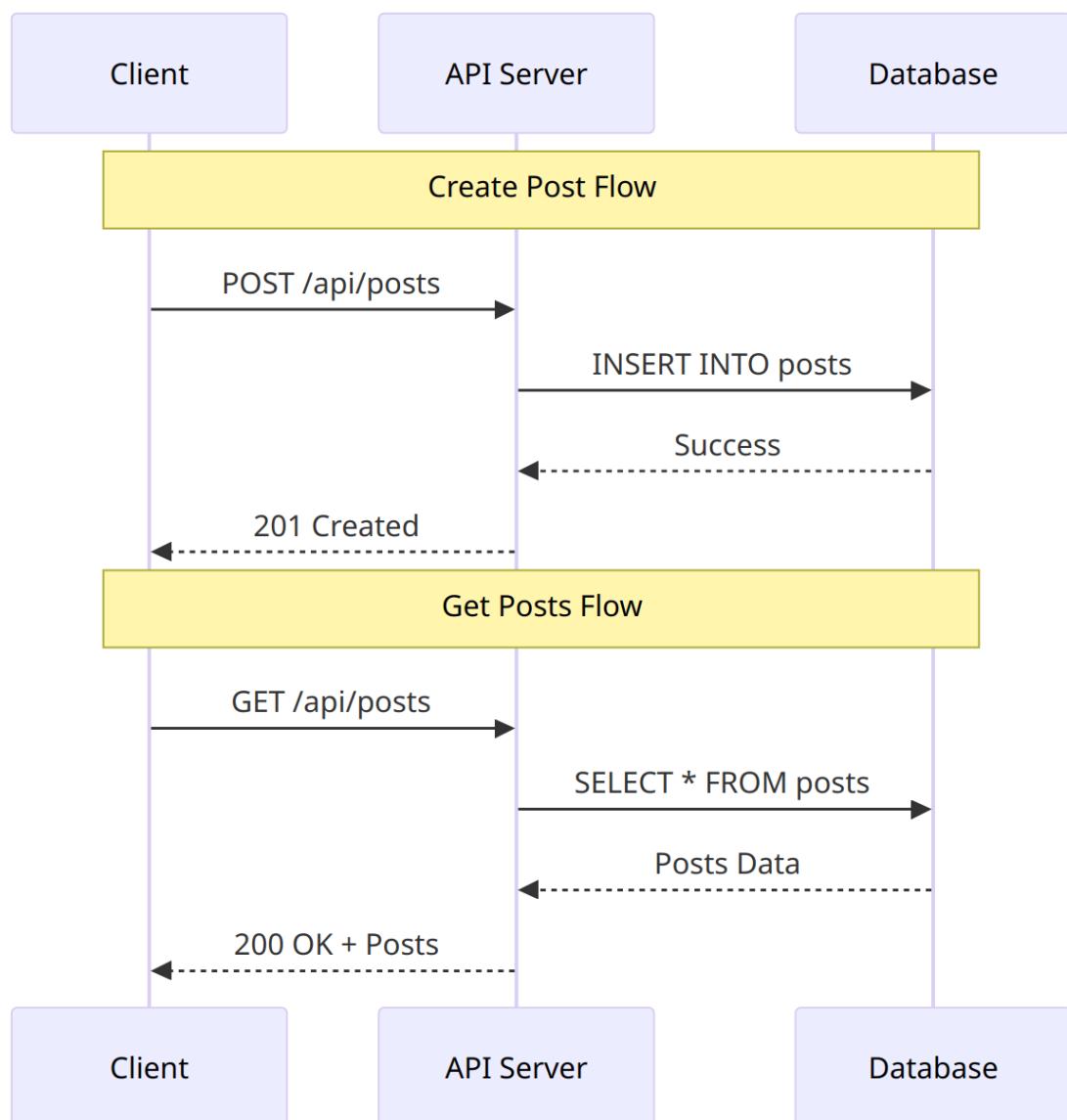
Architecture Overview

Simple monolithic architecture with basic CRUD operations for users and posts.

Diagram

Data Flow

```
         Client              API Server            Database

┌─────────────────────── Create Post Flow ───────────────────────┐

    POST /api/posts
    ─────────────────────▶
                              INSERT INTO posts
                              ─────────────────────▶
                                    Success
                              ◀- - - - - - - - - - - -
          201 Created
    ◀- - - - - - - - - - -

┌─────────────────────── Get Posts Flow ─────────────────────────┐

    GET /api/posts
    ─────────────────────▶
                              SELECT * FROM posts
                              ─────────────────────▶
                                  Posts Data
                              ◀- - - - - - - - - - - -
      200 OK + Posts
    ◀- - - - - - - - - - -

         Client              API Server            Database
```
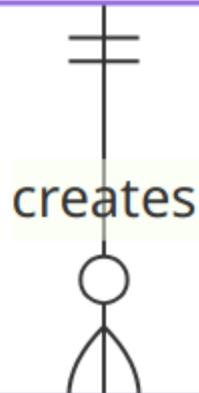
Diagram

Database Schema

USERS

int	id	PK
string	username	
string	email	
string	password_hash	
timestamp	created_at	
timestamp	updated_at	

creates

POSTS

int	id	PK
int	user_id	FK

Diagram