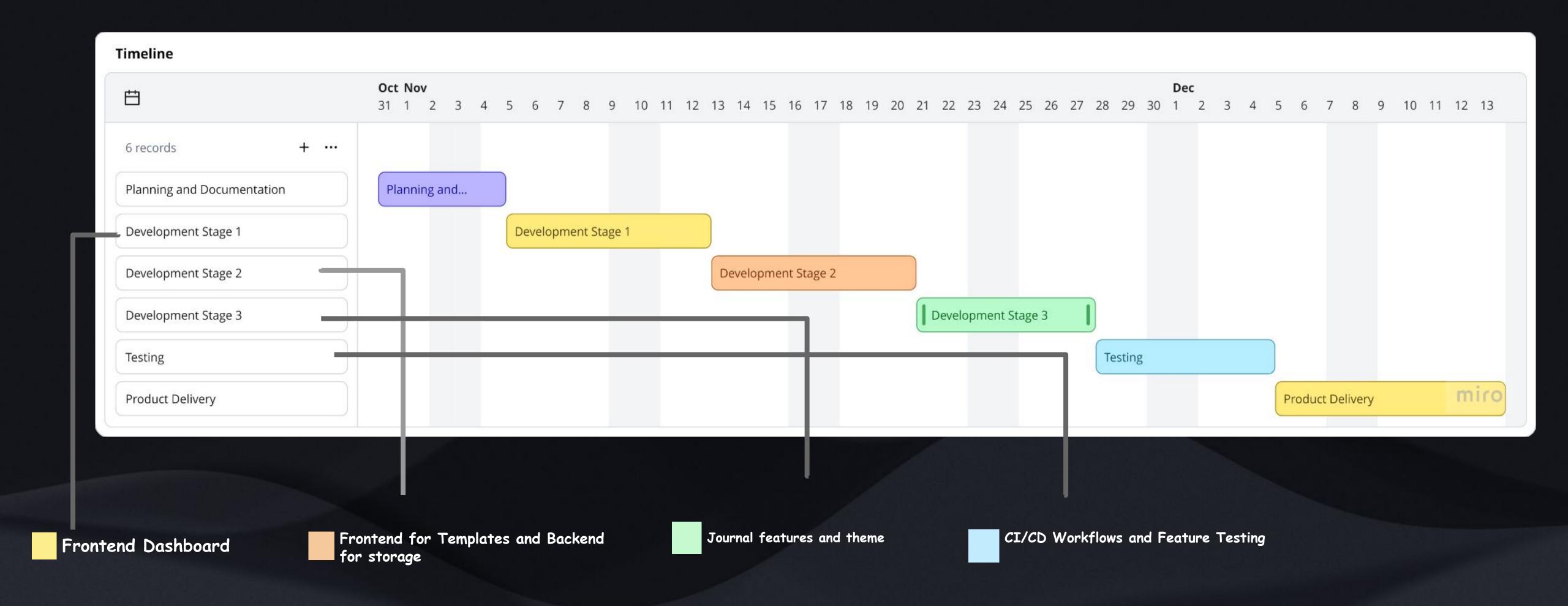
# Team-3 Pitch Document

Devlog: Developer focused journaling tool



# Timeline



# Statement of Purpose

### **Purpose**

Streamline development documentation with a lightweight, template-driven platform using vanilla JavaScript & MySQL

### Who

Development teams (5-20 members) needing quick, organized technical documentation

### Why

- Preserve context behind technical decisions
- Improve knowledge retention and transfer
- Speed up onboarding of new team members

### When

- During architectural decision-making
- After solving complex bugs
- Post-code review sessions
- During sprint retrospectives

### **Key Features**

- Ready-to-use templates (TODO, MOM, Bug Reviews)
- Tag-based organization & quick search (tentative)
- GitHub commit linking
- Embedded Youtube Video
- Dark/light mode for developers

### **Tech Stack**

- JavaScript
- HTML CSS
- MySQL

# User Personas



#### **Emma**

Emma is a third-year college student majoring in Biology. She is highly organized and prefers digital tools for schoolwork and collaboration.

#### Goals

- Manage and excel in multiple courses simultaneously.
- Keep track of assignments and prepare for exams efficiently.

#### **Behaviorl Traits**

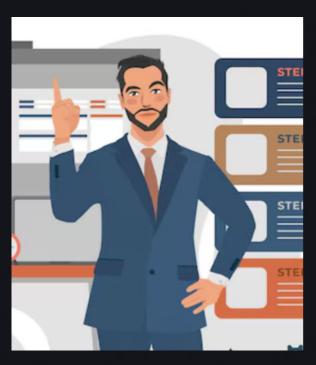
- Tech-savvy and highly adaptable to new software.
- Prefers visually organized data and quick access to needed information.

**Notion**: Emma uses Notion to create and manage a digital notebook for each of her courses. She organizes these notebooks by subject matter, including lecture notes, research papers, and lab results.

#### **Use of Platform**

**Trello**: She utilizes Trello to track her assignments and exam dates, setting up boards for each class with cards for assignments, study sessions, and project deadlines. Tags help her prioritize and manage her workload based on urgency and subject.





#### Mia

Mia is a freelance graphic designer who works on creative projects, from branding to digital marketing campaigns. She needs to manage projects and tasks efficiently to meet client expectations and deadlines.

#### Goals

- Organize client projects and personal tasks to maximize productivity.
- Maintain clear communication and project transparency with clients.

#### **Behaviorl Traits**

- · Creatively driven and visually oriented.
- Independent worker who values structure and clear timelines.

**Notion**: Mia uses Notion to create pages for each client, where she organizes project briefs, design ideas, and final assets. She links related content and incorporates visual elements to keep her creative flow accessible and structured.

#### **Use of Platform**

**Trello**: She sets up boards for each project phase, like concept development, design revisions, and final approvals, using cards to manage specific tasks and deliverables. This helps her track progress and set expectations with clients clearly.

**Jira**: Although not her main tool, Mia occasionally uses a simplified Jira setup to map out longer-term personal projects and career milestones, helping her plan her growth and skills development effectively.

#### Alex

Alex is a project manager in an IT company specializing in software development. He has extensive experience in project planning, team management, and product delivery.

#### Goals

- Efficiently manage multiple projects with varying scopes.
- Ensure on-time delivery of high-quality software products.

#### **Behaviorl Traits**

- Detail-oriented, with a focus on big-picture outcomes.
- Strong leadership skills and effective communicator.

**Notion**: Alex uses Notion to maintain comprehensive documentation for each product, including detailed feature descriptions and user manuals, which serve as a central knowledge base for the team.

#### **Use of Platform**

Jira: He leverages Jira to oversee the project roadmap, set milestones, and distribute tasks across his development team. This includes monitoring progress and adjusting timelines as needed to meet project deliverables.



#### 1. Template System Risks

#### **Rabbit Holes:**

- Spending too much time building a complex template editor
- Over-engineering template customization

#### **What Could Go Wrong:**

- Team gets stuck building advanced formatting features
- Templates become too rigid or too flexible
- Excessive time spent on editor features instead of core functionality

#### **Keep it Simple:**

- Start with basic HTML templates
- Use contentEditable for basic editing
- Avoid building complex formatting tools

#### 4. Performance Traps

#### Rabbit Holes:

- Premature optimization
- Over-caching
- Complex DOM manipulation
- Handling large documents

#### What Could Go Wrong:

- Slow page loads
- Memory leaks
- Browser crashes with large documents
- Poor web performance

#### **Keep it Simple:**

- Start with basic optimization
- Implement pagination early
- Limit document size
- Use simple DOM updates

#### 2. State Management Risks

#### **Rabbit Holes:**

- Building a complex state management system
- Over-using localStorage
- Creating unnecessary event systems

#### **What Could Go Wrong:**

- Data inconsistency between client and server
- localStorage size limits hit unexpectedly
- Complex state updates causing bugs
- Race conditions in data updates

#### **Keep it Simple:**

- Use simple CRUD operations
- Store minimal data in localStorage
- Rely on server for data persistence
- Avoid real-time updates initially

#### **5. Team Coordination Risks**

#### **Rabbit Holes:**

- Over-complicated git workflows
- Too many coding standards
- Excessive documentation requirements
- Complex review processes

#### **What Could Go Wrong:**

- Merge conflicts
- Inconsistent code
- Time wasted on process
- Delayed release

#### **Keep it Simple:**

- Basic git branching strategy
- Essential coding standards only
- Documentation for critical features only
- Quick code reviews

#### 3. UI/UX Complications

#### **Rabbit Holes:**

- Perfect pixel-perfect designs
- Complex animations and transitions
- Over-engineering responsive design
- Too many theme options

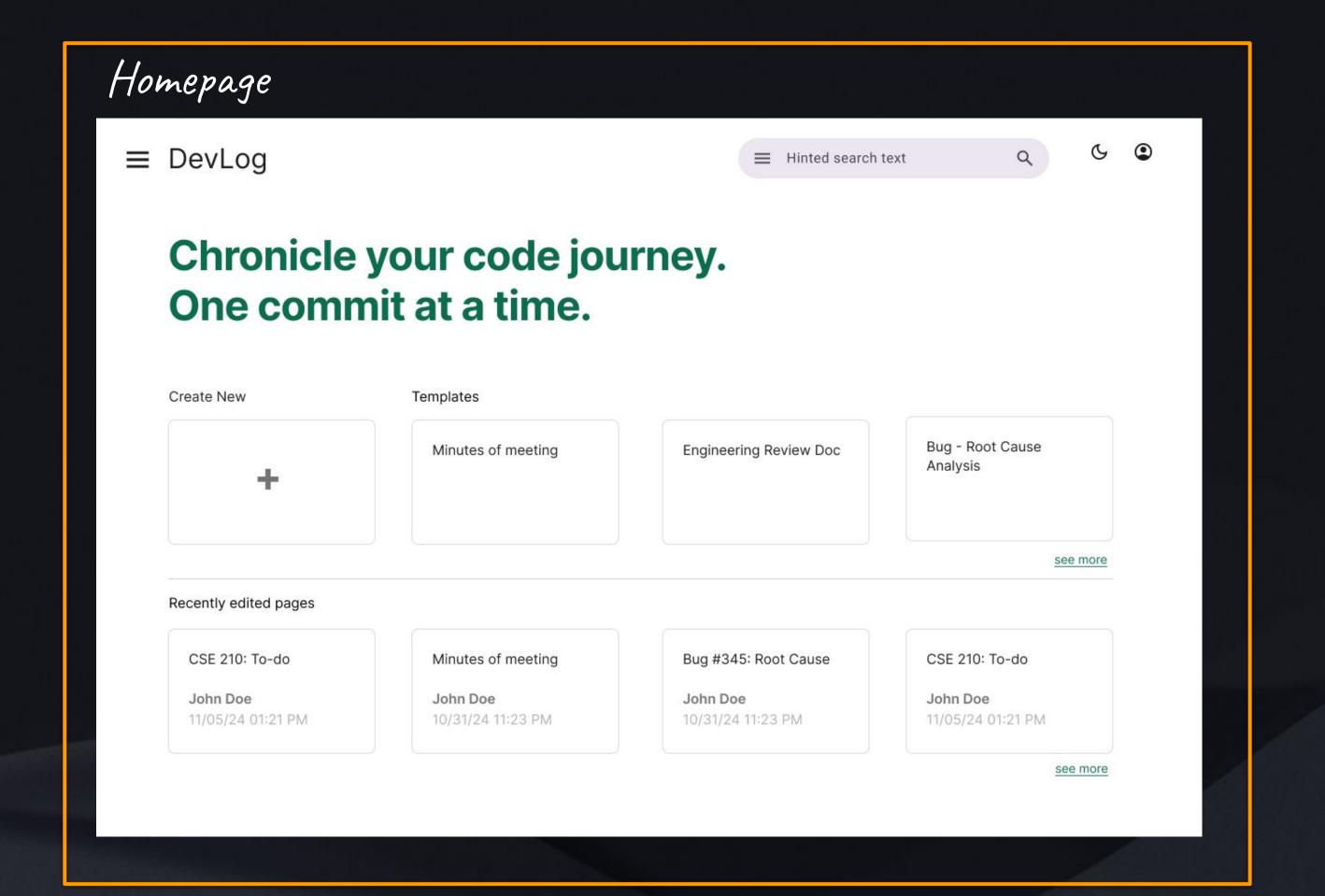
#### **What Could Go Wrong:**

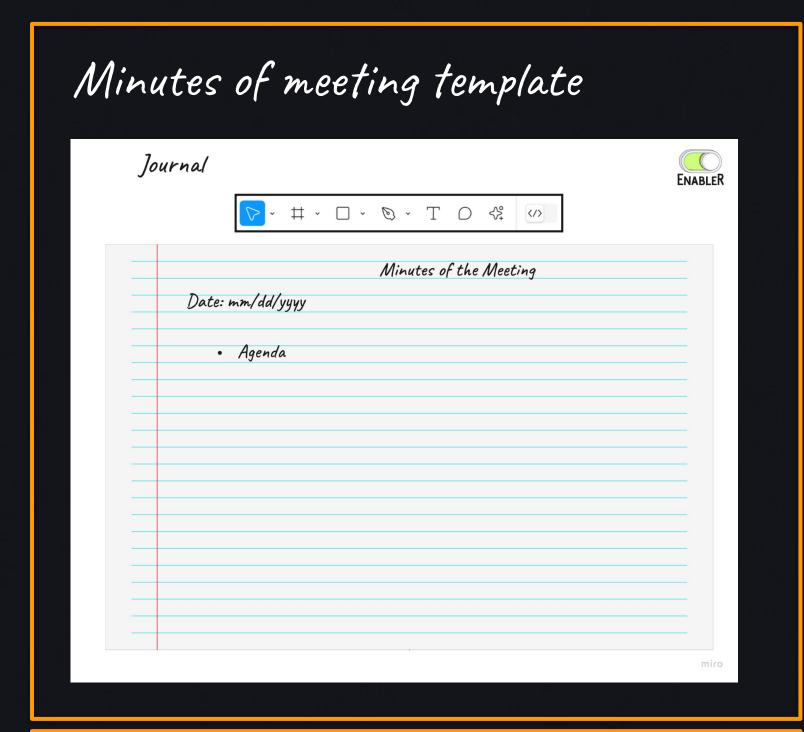
- Inconsistent appearance across browsers
- Mobile version takes too long to implement
- Performance issues from animations
- CSS becomes unmanageable

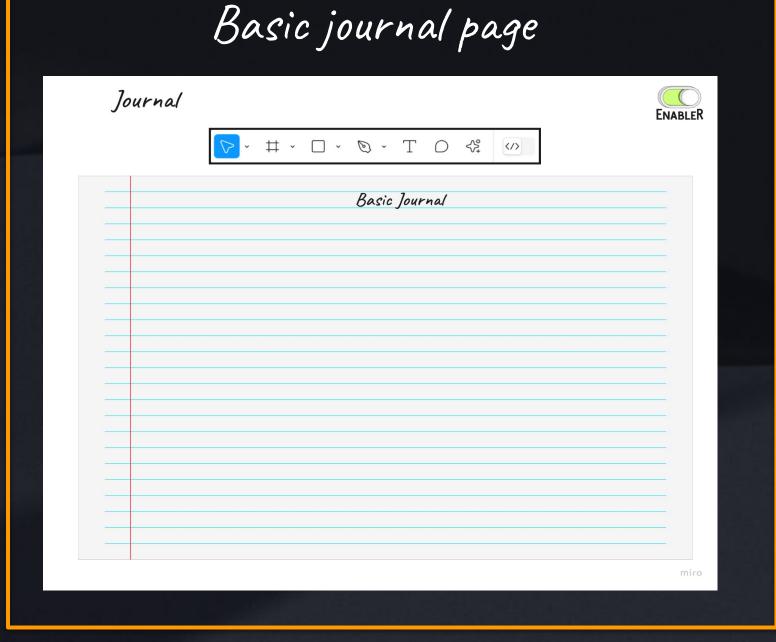
#### **Keep it Simple:**

- Start with web-first approach
- Use simple CSS transitions only
- Stick to two themes (light/dark)
- Focus on functionality over aesthetics initially

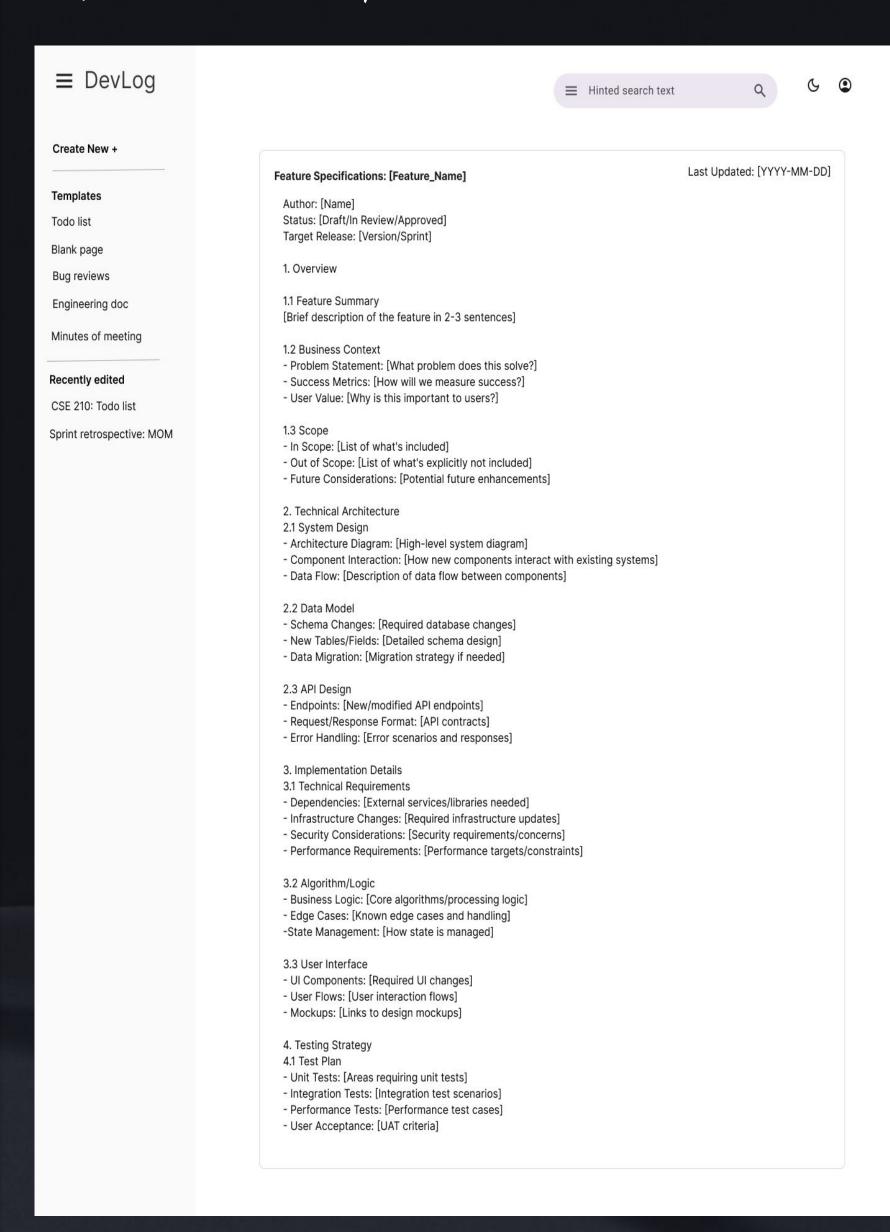
# Wireframes



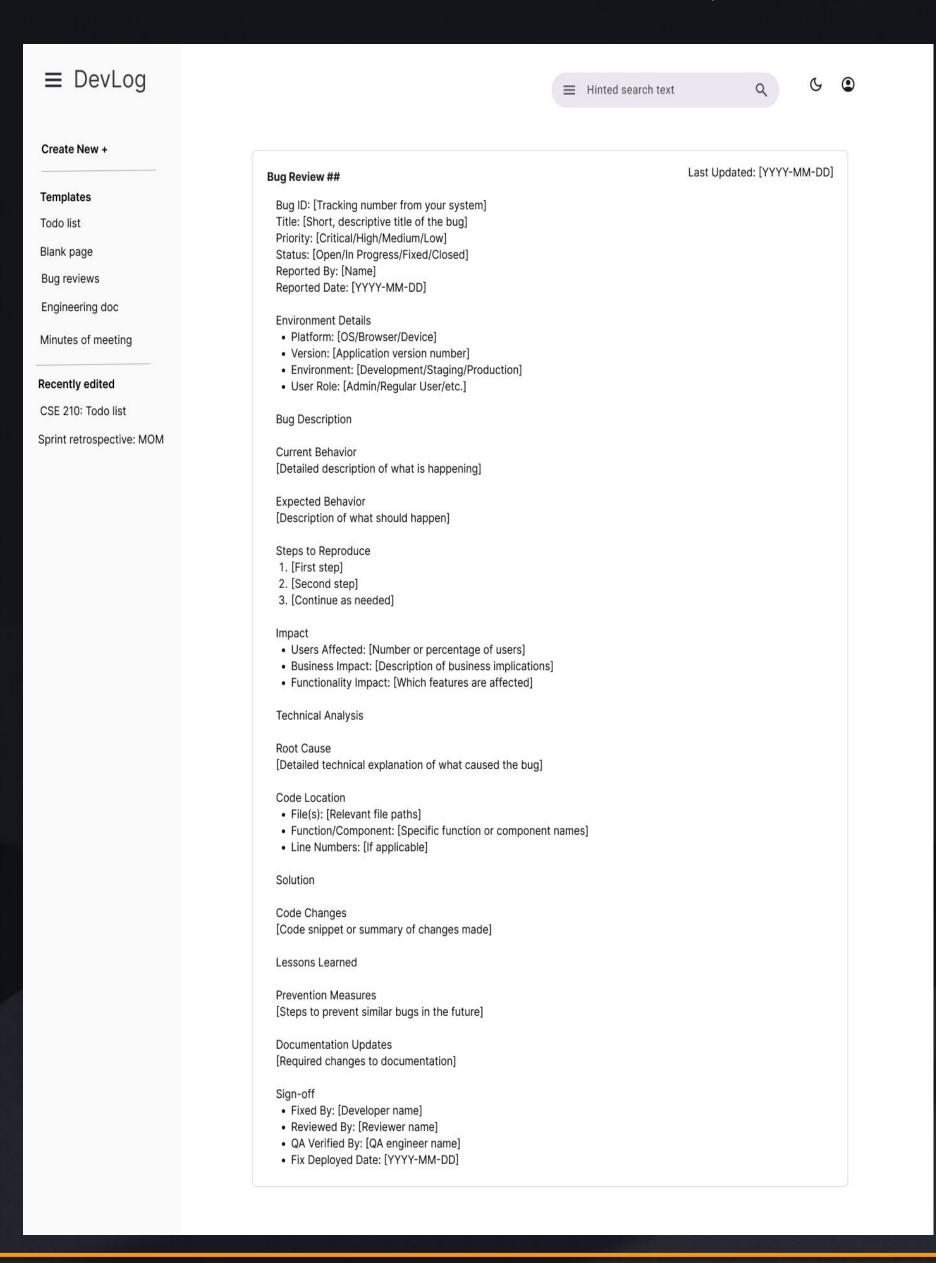




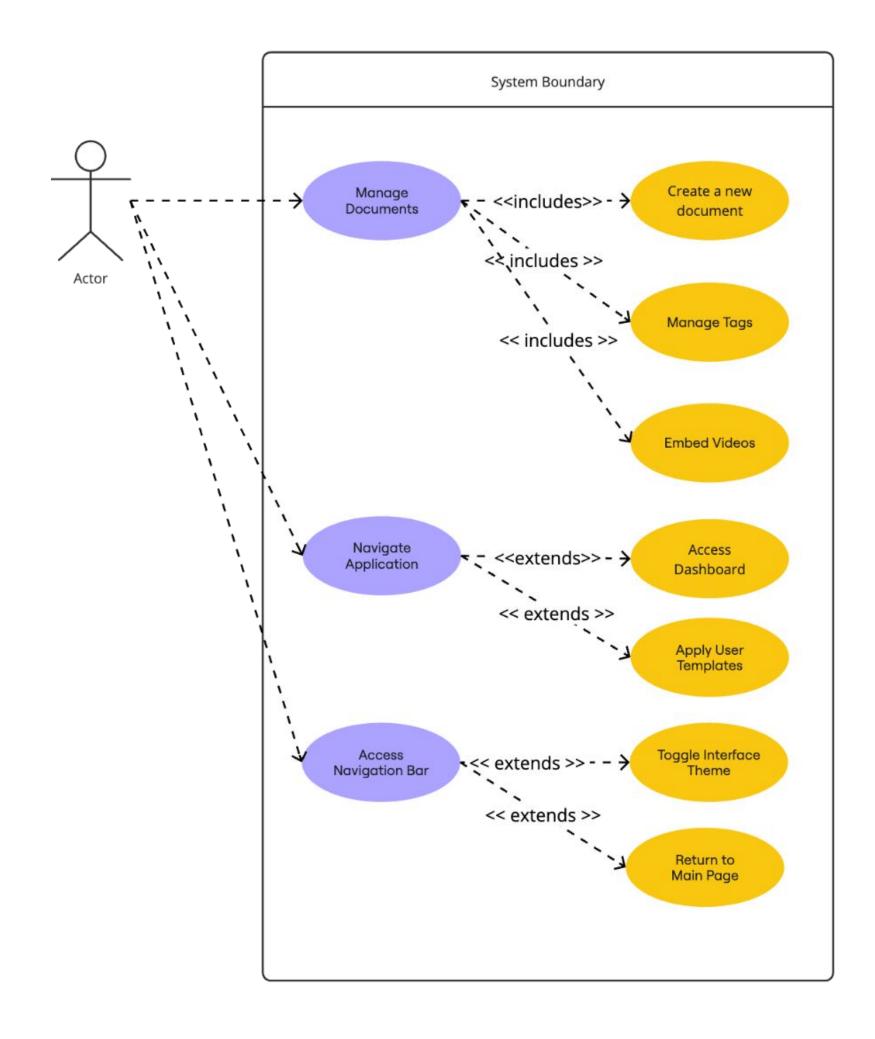
# Template: Feature Specifications

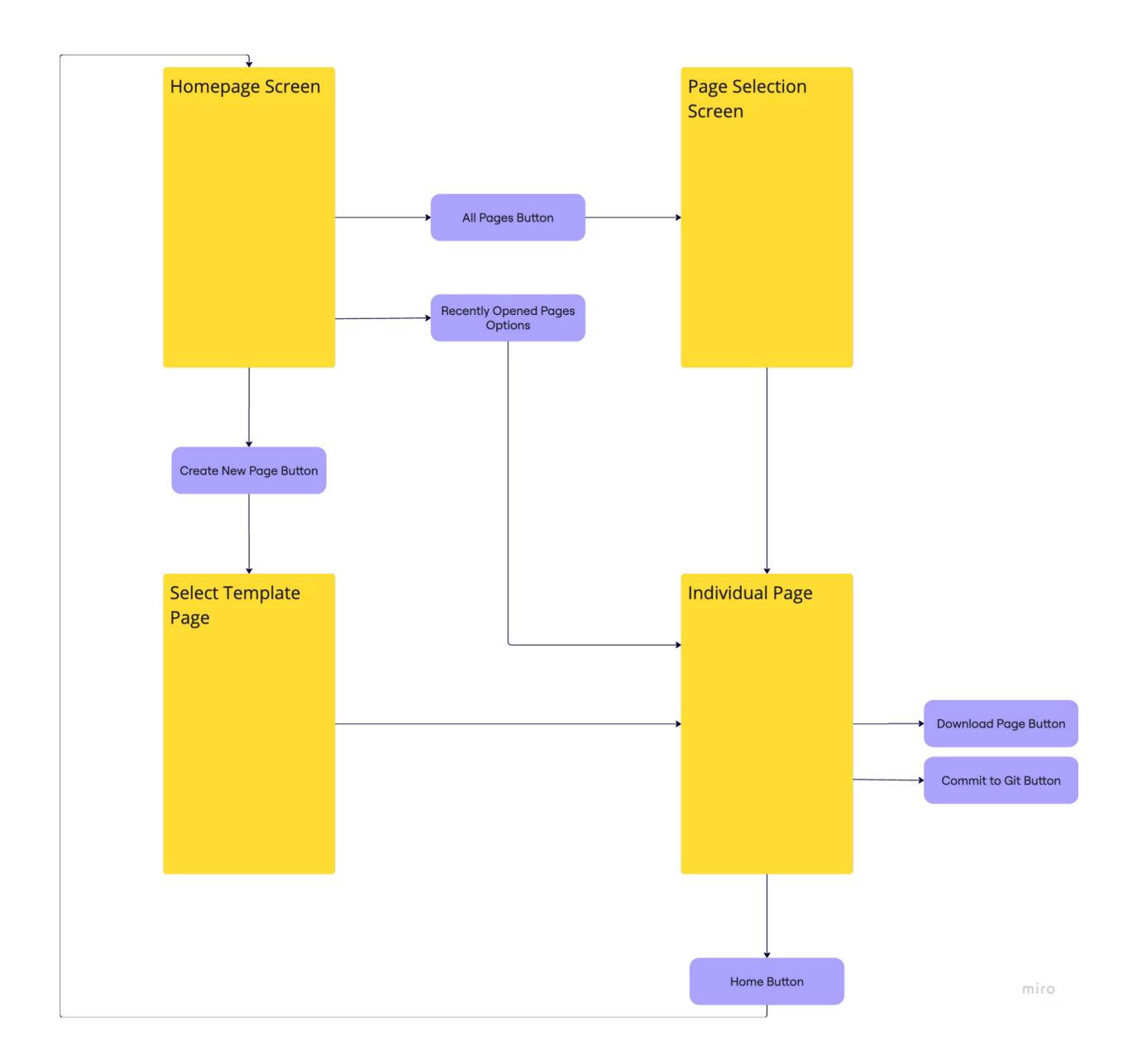


# Template: Bug Reviews (Root cause analysis)



# UML Diagram





# System Design

## **Architecture Components**

Component	Description	Key Features
Frontend	Browser-based UI	- Vanilla JavaScript- Local storage caching- Simple state management
Backend	Basic HTTP server	- REST API endpoints- Template engine- Authentication service
Database	MySQL	- Document storage- User management- Tags and templates

### **Core Database Tables**

Table	Purpose	Key Fields
users	User management	- id, username, email, password_hash
documents	Document storage	- id, title, content, template_type, author_id
tags	Document organization - id, name	
templates	Pre-built layouts	- id, name, content

## **Key API Endpoints**

Endpoint	Method	Purpose
/api/documents	GET/POST	Document management
/api/templates	GET	Template retrieval
/api/tags	GET/POST	Tag management
/api/auth	POST	Authentication

## **File Structure**

Directory	Contents
/public	- CSS files- JavaScript modules- Template files
/server	- API routes- Services- Config files

## **Caching Strategy**

Туре	Purpose	Storage
Client	- Recent documents- User preferences	LocalStorage
Server	- Template cache- Query results	Memory

# **Security Measures**

Area	Implementation	
Authentication	Session-based	
Data Safety	SQL prepared statements	
Input	XSS sanitization	
CSRF	Token validation	