

Cool Tech Blog

Laravel Project

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FICTITIOUS COMPANY'S PROJECT REQUIREMENTS | JUNE-JULY 2024

Cool Tech Blog: Project Requirements

1. Introduction

Cool Tech, a leader in delivering digestible technology content, has partnered with us for a dynamic website overhaul. This document details the initial requirements and potential expansion opportunities for their new platform. This project marks the beginning of our ongoing collaboration with Cool Tech.

2. Project Objectives

The primary goal is to enhance the current Cool Tech website by introducing new features and improving user experience. The new site will support the company's growth and future-proof the platform for expansion.

3. Key Requirements

3.1 Core Features

3.1.1 Home Page

- Display the latest 5 articles.
 - Each article should include the title, first paragraph, and a link to the full article page.
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3.1.2 Article View Page

- URL: `/article/{id}`
 - Display full article content, including title, creation date, category, and associated tags.
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3.1.3 Category View Page

- URL: `/category/{slug}`
 - List all articles within a specific category.
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3.1.4 Tag View Page

- URL: `/tag/{slug}`
 - List all articles associated with a specific tag.
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3.1.5 About Us Page

- Provide information about Cool Tech, its mission, and team.
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3.1.6 Legal Page

- Include Terms of Use and Privacy Policy.
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3.2 Additional Features

3.2.1 Search Page

- Provide search functionality by article ID, category, and tag.
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3.2.2 Cookie Notice

- Display a cookie consent banner on every page.
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3.2.3 Footer

- Include links to the search and legal pages and a copyright notice.
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3.3 Admin and Writer Consoles

3.3.1 Writer Console

- Accessible with an author password.
 - Features text fields for title, content, and tags for article submission.
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3.3.2 Admin Console

- Accessible with an admin password.
 - Capabilities include creating/renaming article types and deleting articles.
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4. Database Design

- **Articles:** Indexed by creation date, category, and tags.
- **Categories:** Each article belongs to one category.
- **Tags:** Articles can have multiple tags.

An ERD (Entity-Relationship Diagram) detailing the database structure is included in the document `cool_tech_ERD.pdf` in the `docs` directory.

5. Development Guidelines

- **Code Quality:** Ensure code is well-commented, follows PHP best practices, and is optimised for performance.
- **User Experience:** The website should be intuitive and aesthetically pleasing.
- **Security:** Implement basic security measures, including input validation and secure password storage.

6. Future Enhancements

6.1 User Authentication and Session Management

- Implement user roles with appropriate permissions.
 - Create login and registration pages.
 - Secure writer and admin consoles with session management.
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6.2 Content Management

- Enhance the admin console for comprehensive content management, including editing and publishing workflows.
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7. Conclusion

This document outlines the essential features and future possibilities for the Cool Tech Blog Website project. It serves as a roadmap for development, ensuring alignment with Cool Tech's goals and objectives.
