

School Management System Php Project Documentation File PDF

School Management System PHP Project Documentation

Developing a comprehensive school management system using PHP is an excellent way to streamline administrative tasks, improve communication between students, teachers, and parents, and automate various school operations. Proper documentation of a school management system PHP project is essential for developers, stakeholders, and future maintainers. This article provides a detailed overview of the project documentation process, covering core features, architecture, modules, setup instructions, and best practices to ensure your school management system is well-documented, maintainable, and scalable.

Introduction to School Management System PHP Project

A school management system built with PHP aims to automate and manage key school operations such as student registration, attendance tracking, grade management, timetable scheduling, and communication channels. Using PHP as the server-side language offers flexibility, ease of integration, and a large community for support.

Proper documentation helps in understanding the system architecture, codebase, and functionalities, making it easier for developers to maintain, upgrade, or customize the system according to evolving requirements.

Key Features of the School Management System

A typical school management system includes several modules, each serving a specific purpose:

Student Management

- Student registration and admission
- Student profile management
- Attendance tracking

Teacher Management

- Teacher registration and profiles
- Subject assignment
- Attendance and performance tracking

Academic Management

- Class scheduling and timetable management
- Exam and result management
- Subject management

Administrative Management

- Fee management and billing
- Library management
- Transportation management

Communication & Reports

- Notifications and announcements
- Report generation (attendance, results, fees)
- Parent-teacher communication portals

System Architecture and Technology Stack

A well-structured school management system PHP project relies on a robust architecture and technology stack:

Architecture Overview

- **Client-Server Model:** Web-based interface accessed via browsers
- **Model-View-Controller (MVC):** Separates data (model), UI (view), and logic (controller) for maintainability
- **Database Layer:** MySQL or MariaDB for data storage

Technology Stack

- **PHP:** Server-side scripting
- **HTML/CSS/JavaScript:** Front-end presentation and interactivity
- **Bootstrap:** Responsive UI framework
- **AJAX:** Asynchronous data fetching for a smoother user experience
- **Database:** MySQL
- **Web Server:** Apache or Nginx
- **Version Control:** Git for code management

Database Design and Schema

A clear and normalized database schema is vital for data integrity and performance. Typical tables include:

Core Tables

- **students:** Stores student details (id, name, DOB, address, contact, class_id, enrollment_date)
- **teachers:** Teacher information (id, name, subject_id, contact, hire_date)
- **classes:** Class details (id, name, section, teacher_id)
- **subjects:** Subject list (id, name, code)
- **attendance:** Attendance records (id, student_id, date, status)
- **exams:** Exam details (id, subject_id, date, total_marks)
- **results:** Student exam results (id, student_id, exam_id, marks_obtained)
- **fees:** Fee transactions (id, student_id, amount, date, status)

Ensure relationships are correctly established via foreign keys for data consistency.

Project Setup and Installation

Proper setup instructions are crucial for deploying and testing the school management system PHP project:

Prerequisites

- Web server (Apache or Nginx)
- PHP (version 7.4 or higher recommended)
- MySQL Database Server
- Optional: Composer for dependency management

Installation Steps

- Download or clone the project repository from GitHub or your version control system.
- Import the provided SQL database file into your MySQL server to set up the database schema.
- Configure database connection settings in the config.php or database.php file.
- Place the project files in your web server's root directory.
- Access the application via your browser at localhost or your server URL.
- Register initial admin or login credentials as per the setup instructions.

Project Structure and Code Organization

Maintaining a clean codebase simplifies future updates and debugging. Typical directory structure:

- **assets/**: CSS, JavaScript, images
- **classes/**: PHP classes for models, controllers, helpers
- **config/**: Configuration files (database settings, constants)
- **includes/**: Header, footer, or reusable components
- **pages/**: Different pages like dashboard, student management, reports
- **sql/**: SQL scripts for database setup

Comment your code thoroughly to enhance readability and maintainability.

Security and Best Practices

Security is paramount in school management systems containing sensitive data:

- Use prepared statements or ORM to prevent SQL injection
- Implement proper session management and user authentication
- Encrypt sensitive data such as passwords using hashing algorithms (e.g., bcrypt)
- Apply input validation and sanitization to prevent XSS attacks
- Use HTTPS for secure data transmission

Regularly update dependencies and keep the system patched against known vulnerabilities.

Testing and Validation

Thorough testing ensures system reliability:

- Unit testing for individual modules
- Integration testing to verify module interactions

- UI testing for responsiveness and usability
- Security testing for vulnerabilities

Automate testing where possible to streamline updates.

Documentation and User Guides

Comprehensive documentation should include:

- System overview and objectives
- Setup and installation instructions
- Module-specific functionalities and workflows
- API endpoints or AJAX calls, if any
- FAQs and troubleshooting tips
- Contact information for support

User manuals for administrators, teachers, students, and parents enhance usability.

Future Enhancements and Scalability

Design your system with future growth in mind:

- Implement role-based access control for different user types
- Integrate attendance via biometric or RFID devices
- Add mobile app compatibility or responsive design
- Incorporate analytics and data visualization
- Enable online fee payments and e-learning modules

Maintain flexible architecture to accommodate new features without major overhauls.

Conclusion

A well-documented school management system PHP project is vital for effective deployment, maintenance, and scalability. Clear architecture, organized code, thorough setup instructions, and security best practices ensure the system serves its purpose efficiently and securely. Whether you are developing this project for a school or as a learning exercise, investing time in comprehensive documentation will greatly benefit all stakeholders involved.

By following the guidelines outlined in this article, you can create a robust, maintainable, and

user-friendly school management system that meets modern educational needs.

School Management System PHP Project Documentation: An In-Depth Review

In the rapidly evolving landscape of educational technology, school management systems have become indispensable tools for administrators, teachers, students, and parents alike. Among the myriad of solutions available, PHP-based school management systems stand out for their affordability, flexibility, and ease of customization. This comprehensive review aims to dissect the typical school management system PHP project documentation, providing an investigative lens into its structure, features, implementation, and real-world applicability.

Understanding the Importance of School Management System PHP Project Documentation

A well-structured project documentation serves as the backbone of any successful software development endeavor. For PHP-based school management systems, documentation ensures clarity, maintainability, and scalability. It acts as a blueprint for developers, educators, and future stakeholders.

Key reasons for thorough documentation include:

- Facilitating seamless development and updates
- Assisting new team members in understanding system architecture
- Ensuring consistency in feature implementation
- Providing a reference for troubleshooting and debugging
- Supporting effective user training and onboarding

Core Components of School Management System PHP Documentation

A comprehensive documentation for a school management system built in PHP generally encompasses several critical sections. These parts collectively offer a holistic view of the system's design, functionality, and deployment.

1. Introduction and Overview

This section introduces the project, its objectives, and scope. It provides context about the system's purpose, target users, and intended benefits.

Example Content:

- Project Name and Description
- Target Audience (administrators, teachers, students, parents)
- Goals and Expected Outcomes
- Constraints and Limitations

2. System Architecture and Design

A detailed explanation of the system's architecture is vital. This includes:

- Overall Architecture Model: Client-Server, MVC (Model-View-Controller), or layered architecture
- Technology Stack: PHP version, database (MySQL, MariaDB), front-end frameworks (Bootstrap, jQuery), server environment
- Module Breakdown: Student Management, Staff Management, Attendance, Exam Results, Fee Management, etc.

Diagrammatic representations like flowcharts or ER diagrams are often included here to visualize database relationships and system flow.

3. Database Design and Schema

Since PHP projects typically interact with databases, the documentation must specify:

- Database schema diagrams
- Table structures, including fields, data types, primary and foreign keys
- Relationships between tables
- Sample data entries

Sample tables include:

- Students
- Teachers
- Classes
- Subjects
- Attendance Records
- Exam Results
- Fees and Payments

4. Features and Functional Modules

A detailed enumeration and explanation of the system's features.

Common modules include:

- User Authentication & Authorization: Login, role-based access control
- Student Management: Enrollment, profiles, attendance tracking
- Staff Management: Teacher profiles, payroll, assignments
- Class Management: Timetables, class assignments
- Examination Module: Result entry, report cards
- Fee Management: Payment tracking, fee receipts
- Communication: Notifications, announcements
- Reports & Analytics: Performance reports, attendance summaries

Each module should specify the functionalities, interfaces, and any special considerations.

5. User Roles and Permissions

Clear delineation of user roles enhances system security and usability.

- Admin: Full access, system configuration
- Teachers: Manage classes, enter grades, attendance
- Students: View grades, attendance, and schedules
- Parents: Monitor child's progress and fees

The documentation explains how permissions are assigned and enforced.

6. System Workflow and Use Cases

Describes typical user interactions through sequence diagrams or step-by-step processes.

Example: Registering a new student involves multiple steps: admin logs in ? navigates to Student Management ? fills in details ? submits ? confirmation message.

7. Implementation Details and Code Structure

This section provides technical insights into:

- Directory structure

- Naming conventions
- Key PHP files and their responsibilities
- Integration points with front-end components
- Usage of third-party libraries or APIs

8. Testing and Quality Assurance

Guidelines on testing procedures:

- Unit testing strategies
- Integration testing
- User acceptance testing
- Bug tracking and resolution processes

9. Deployment and Hosting

Instructions on deploying the system:

- Server requirements
- Database setup
- Configuration files
- Backup procedures

10. Maintenance and Future Enhancements

Suggestions for ongoing support and possible feature expansions.

Analyzing the Effectiveness of PHP-Based School Management System Documentation

While a structured documentation is foundational, its effectiveness depends on clarity, completeness, and usability. An investigative review reveals several critical observations:

Strengths:

- Transparency: Detailed system architecture and database diagrams facilitate understanding.
- Guidance: Step-by-step use cases assist non-technical users.
- Modularity: Clear module separation aids in customization and scalability.

- Standardization: Use of common design patterns (MVC) simplifies maintenance.

Weaknesses and Challenges:

- Outdated Information: Rapid technology changes can render documentation obsolete if not maintained.
- Inconsistent Detailing: Variability in depth across sections can confuse users.
- Limited User Guides: Insufficient tutorials or user manuals hinder adoption by non-technical staff.
- Security Considerations: Often overlooked, critical for handling sensitive student data.

Best Practices for Developing and Maintaining School Management System PHP Documentation

To maximize the usefulness of project documentation, developers and stakeholders should adhere to best practices:

- Keep Documentation Up-to-Date: Regular revisions aligned with development cycles.
- Use Clear Language and Visuals: Diagrams, screenshots, and flowcharts enhance comprehension.
- Incorporate User Guides: Manuals tailored for end-users to navigate the system efficiently.
- Highlight Security Protocols: Data privacy, authentication, and authorization procedures.
- Encourage Collaborative Feedback: Input from users can identify gaps and areas for improvement.
- Leverage Documentation Tools: Use platforms like Markdown, Doxygen, or Sphinx for dynamic and accessible documentation.

Real-World Applications and Case Studies

Examining existing PHP-based school management systems reveals diverse approaches to documentation:

- Some projects offer open-source repositories with comprehensive README files, API documentation, and setup guides.
- Others lack detailed documentation, leading to steep learning curves and maintenance challenges.
- Successful implementations often include user manuals, troubleshooting FAQs, and developer notes, facilitating wider adoption and customization.

Conclusion: The Critical Role of Documentation in School Management PHP Projects

In conclusion, school management system PHP project documentation is not merely an auxiliary component but a vital element that underpins the success, longevity, and scalability of educational management solutions. As the educational sector increasingly relies on digital tools, the importance of clear, comprehensive, and maintainable documentation cannot be overstated.

Investing in quality documentation ensures that the system is accessible to a broad spectrum of users, adaptable to changing needs, and resilient against technical challenges. Future developments should emphasize continuous updates, user-centric design, and security considerations to meet the evolving demands of educational institutions.

By scrutinizing existing documentation practices and adhering to established standards, developers and stakeholders can foster more effective, reliable, and user-friendly school management systems built on PHP.

Question What are the essential components to include in a school management system PHP project documentation? The essential components include an introduction, system overview, architecture diagram, database schema, module descriptions, implementation details, testing procedures, deployment instructions, and user manual to ensure comprehensive understanding and effective maintenance. **Answer** How does detailed documentation improve the development and maintenance of a PHP-based school management system? Detailed documentation provides clear guidelines on system functionalities, code structure, and database design, facilitating easier debugging, future enhancements, onboarding of new developers, and ensuring consistent system updates and maintenance. What are best practices for documenting the database schema in a school management system PHP project? Best practices include using ER diagrams to visualize relationships, providing detailed descriptions for each table and field, including data types, constraints, and relationships, and maintaining version control to track schema changes over time. Which tools are recommended for generating documentation in a PHP school management system project? Tools such as phpDocumentor, Doxygen, and Swagger can be used to generate API documentation, while Markdown editors and UML diagram tools assist in creating comprehensive system and database documentation. How should user roles and access levels be documented in a school management system PHP project? User roles and access levels should be clearly defined with descriptions of permissions for each role, including diagrams or matrices to illustrate access control, ensuring clarity for developers and administrators in managing security and functionalities.

Related keywords: school management system, PHP project, documentation, student management, staff management, attendance tracking, grade management, admin panel, database design, feature overview

MBA PROJECT IN PROJECT MANAGEMENT

mba project in project management is a critical milestone for students pursuing a Master of Business Administration, particularly those specializing in project management. It serves as a comprehensive demonstration of their understanding, skills, and ability to apply theoretical concepts to real-world scenarios. An effective MBA project in project management not only enhances academic credentials but also equips students with practical insights that can propel their careers in various industries.

Understanding the Significance of an MBA Project in Project Management

Why Is an MBA Project Important?

An MBA project in project management is essential for several reasons:

- Practical Application: It allows students to apply classroom concepts to real-life projects.
- Skill Development: Enhances critical skills such as planning, execution, risk management, and communication.
- Industry Readiness: Prepares students for challenges faced in managerial roles.
- Research and Innovation: Encourages innovative solutions to complex project issues.
- Academic Credential: Serves as a testament to a student's expertise and readiness for leadership roles.

Goals of an MBA Project in Project Management

The primary objectives include:

- Analyzing project management methodologies.
- Developing effective project strategies.
- Assessing risk and resource management.
- Demonstrating leadership and team coordination.
- Providing actionable recommendations for project success.

Choosing the Right Topic for Your MBA Project

Factors to Consider

Selecting a relevant and manageable topic is crucial. Consider:

- Interest areas within project management (e.g., Agile, Waterfall, Risk Management)
- Availability of data and resources
- Industry relevance and current trends
- Scope and feasibility within the given timeframe
- Potential for practical impact and contribution to the field

Popular Topics for MBA Projects in Project Management

Some trending topics include:

- Implementation of Agile methodologies in large organizations
- Risk assessment and mitigation strategies in IT projects
- Effectiveness of stakeholder management in construction projects
- Use of project management software to enhance efficiency
- Sustainable project management practices
- Cost control techniques in large-scale projects
- Impact of leadership styles on project success

Structuring Your MBA Project in Project Management

Key Components of the Project Report

A well-structured report typically includes:

- **Introduction:** Background, problem statement, and objectives
- **Literature Review:** Existing research and theoretical frameworks
- **Methodology:** Research design, data collection methods, and analysis techniques
- **Project Planning and Execution:** Tools, techniques, and processes used
- **Findings and Analysis:** Data interpretation and insights
- **Discussion:** Implications, limitations, and recommendations
- **Conclusion:** Summary of key findings and future scope
- **References and Appendices:** Supporting documents and sources

Methodologies Commonly Used

- Case Study Analysis: Deep dives into specific projects
- Surveys and Questionnaires: Gathering stakeholder feedback
- Interviews: Expert insights and industry perspectives
- Quantitative Analysis: Statistical evaluation of project data
- Qualitative Methods: Thematic analysis of project challenges

Implementing Your Project: Best Practices

Effective Planning

- Define clear objectives and scope
- Develop a detailed work breakdown structure (WBS)
- Establish realistic timelines and milestones
- Allocate resources efficiently

Execution and Monitoring

- Use project management tools like MS Project, Primavera, or Jira
- Regularly track progress against milestones
- Manage risks proactively
- Communicate transparently with stakeholders
- Adapt to changes and update plans accordingly

Documentation and Reporting

- Maintain comprehensive records of all activities
- Prepare periodic status reports
- Document lessons learned and best practices

Evaluating the Success of Your MBA Project

Criteria for Evaluation

- Depth of research and analysis
- Practical relevance and applicability
- Clarity and coherence of the report
- Quality of data and insights

- Innovation and problem-solving approach
- Presentation skills

Feedback and Revision

- Seek feedback from supervisors and peers
- Incorporate suggested improvements
- Ensure the final report is polished and professional

Career Opportunities After Completing an MBA Project in Project Management

Job Roles and Sectors

Graduates can explore roles such as:

- Project Manager
- Program Manager
- Project Coordinator
- Construction Manager
- IT Project Lead
- Consultant in Project Management

Industries include construction, IT, manufacturing, healthcare, consulting, and government agencies.

Further Certifications and Education

Enhance career prospects by pursuing certifications like:

- PMP (Project Management Professional)
- PRINCE2
- Agile Certified Practitioner (PMI-ACP)
- Certified ScrumMaster (CSM)

Conclusion

An MBA project in project management is more than an academic requirement; it is a strategic

opportunity to demonstrate your expertise, problem-solving skills, and industry readiness. Selecting a relevant topic, following a structured approach, and applying best practices in project planning and execution will not only lead to a successful project but also pave the way for a rewarding career in project management. By showcasing your ability to analyze, innovate, and lead, your MBA project can serve as a cornerstone for your professional growth and industry recognition.

If you need further guidance on specific project ideas, methodology details, or report formatting, consider consulting industry experts or academic advisors to tailor your project to your career aspirations.

MBA Project in Project Management: A Comprehensive Guide to Success

Embarking on an MBA project in project management is a significant milestone for students pursuing advanced business education. It serves as a practical platform to apply theoretical knowledge, demonstrate managerial skills, and contribute valuable insights to real-world organizational challenges. Successfully completing such a project not only enhances your understanding of project management principles but also bolsters your resume, positioning you as a competent professional ready to lead complex initiatives.

In this detailed guide, we will explore the nuances of an MBA project in project management, covering everything from choosing the right project, planning, execution, analysis, to presenting your findings effectively. Whether you're at the initial stages or nearing completion, this resource aims to streamline your process and maximize your project's impact.

Understanding the Significance of an MBA Project in Project Management

An MBA project in project management is more than just a requirement for graduation; it is an opportunity to demonstrate your ability to manage initiatives from inception to completion. It allows students to:

- Apply project management frameworks like PMI's PMBOK, PRINCE2, or Agile methodologies.
- Develop problem-solving and critical thinking skills.
- Gain practical experience with project planning, execution, monitoring, and control.
- Showcase leadership, communication, and stakeholder management abilities.
- Produce tangible outputs that can be integrated into organizational processes or serve as case studies.

Choosing the Right Project Topic

Selecting an appropriate topic is the foundation of a successful MBA project. It should align with

your interests, career aspirations, and the needs of your target organization or industry.

Criteria for Selecting a Project Topic

- **Relevance:** The project should address a current issue or opportunity within an organization or industry.
- **Feasibility:** Ensure availability of data, resources, and access to stakeholders.
- **Interest & Passion:** Choose a topic that excites you to sustain motivation.
- **Scope:** The project should be manageable within the given timeframe and resources.
- **Learning Potential:** Aim for a project that offers valuable insights into project management practices.

Examples of MBA Project Topics in Project Management

- Implementation of Agile methodologies in software development firms.
- Risk management strategies in construction projects.
- Optimization of resource allocation in manufacturing projects.
- Stakeholder engagement practices in infrastructure development.
- Cost control techniques in IT projects.

Structuring Your MBA Project in Project Management

A well-structured project enhances clarity and ensures comprehensive coverage of essential components.

Typical Structure

- Title Page
- Abstract/Synopsis
- Table of Contents
- Introduction

- Background
- Objectives
- Significance

- Literature Review

- Theoretical frameworks
- Case studies

- Research Methodology

- Approach (qualitative, quantitative, mixed)
- Data collection methods
- Tools and techniques

- Project Planning

- Work Breakdown Structure (WBS)
- Gantt charts and schedules
- Resource planning

- Implementation/Execution

- Monitoring progress
- Communication plan
- Quality assurance

- Analysis & Findings

- Data interpretation
- Lessons learned

- Conclusions & Recommendations
- References
- Appendices

Planning Your Project Effectively

Successful project management hinges on meticulous planning. Here are key steps to create a robust plan:

- Define Clear Objectives and Scope
 - What are the specific goals?
 - What boundaries (scope) will you set to keep the project manageable?
- Develop a Work Breakdown Structure (WBS)
 - Break down the project into manageable tasks.
 - Assign responsibilities and deadlines.
- Create a Detailed Schedule
 - Utilize tools like Gantt charts for visualization.
 - Identify dependencies among tasks.
- Resource Allocation
 - Determine human, financial, and material resources needed.
 - Ensure availability and plan for contingencies.
- Risk Management
 - Identify potential risks.
 - Develop mitigation strategies.

- Stakeholder Analysis

- Identify key stakeholders.
- Develop engagement and communication plans.

Executing and Monitoring the Project

Implementation is where plans are put into action.

Key Activities During Execution

- Effective Communication: Regular updates through meetings, reports, or digital tools.
- Quality Control: Ensure deliverables meet quality standards.
- Change Management: Adapt to unforeseen circumstances with flexibility.
- Documentation: Keep detailed records for transparency and future reference.

Monitoring Techniques

- Progress Tracking: Use KPIs and milestones.
- Performance Reports: Weekly or bi-weekly updates.
- Earned Value Management: Measure project performance against planned schedule and costs.
- Issue Tracking: Document and resolve problems promptly.

Analyzing Results and Drawing Conclusions

Post-implementation, focus on evaluating project outcomes.

Data Analysis

- Use statistical tools and qualitative analysis to interpret data.
- Assess whether project objectives were achieved.

Lessons Learned

- Identify what worked well and what could be improved.
- Document best practices and pitfalls.

Impact Assessment

- Measure the overall impact on organizational processes or objectives.
- Gather stakeholder feedback.

Writing and Presenting Your MBA Project

Effective presentation enhances the credibility and impact of your work.

Writing Tips

- Be clear, concise, and logical.
- Use visual aids like charts, graphs, and tables.
- Support statements with data and references.
- Maintain academic integrity with proper citations.

Presentation Tips

- Prepare a compelling executive summary.
- Practice delivering a confident and engaging presentation.
- Anticipate questions and prepare answers.
- Highlight key findings, recommendations, and practical implications.

Conclusion

An MBA project in project management is a vital component that bridges academic learning with practical application. By carefully selecting a relevant topic, meticulously planning, executing effectively, and analyzing results critically, students can produce a project that not only fulfills academic requirements but also adds tangible value to organizations and their professional growth.

Remember, the success of your project depends on your dedication, analytical skills, and ability to communicate complex ideas clearly. Approach each phase systematically, leverage available resources, and seek guidance from mentors or industry experts. Ultimately, a well-executed MBA project can serve as a stepping stone toward a rewarding career in project management.

Embark on your MBA project journey with confidence, and transform your insights into impactful solutions that resonate beyond the classroom!

Question What are the key components of an MBA project in project management? An MBA project in project management typically includes an introduction, literature review, research methodology, data analysis, findings, conclusions, and recommendations, demonstrating practical application of project management theories and skills. **How do I choose a relevant topic for my MBA project in project management?** Select a topic that aligns with current industry trends, addresses a real-world problem, and interests you personally. Conduct preliminary research to ensure data availability and relevance, and consult with faculty or industry experts for guidance. **What are the common challenges faced during an MBA project in project management?** Common challenges include limited access to data, time constraints, integrating theoretical concepts with practical scenarios, managing stakeholder expectations, and ensuring project scope remains focused and manageable. **How can I ensure the practical relevance of my MBA project in project management?** Focus on solving real industry problems, incorporate case studies, engage with industry professionals, and apply recognized project management frameworks to ensure your project offers valuable insights and solutions. **What tools and software are recommended for MBA projects in project management?** Popular tools include Microsoft Project, Primavera, Trello, Asana, and MS Excel for data analysis. Familiarity with project management software enhances the quality of planning, scheduling, and reporting in your project. **How should I structure my MBA project report in project management?** A typical structure includes the title page, abstract, introduction, literature review, methodology, data analysis, findings, conclusions, recommendations, references, and appendices, ensuring clarity and coherence throughout. **What skills are essential for successfully completing an MBA project in project management?** Key skills include research and analytical skills, project planning, effective communication, time management, problem-solving, proficiency with project management tools, and the ability to synthesize complex information clearly.

Related keywords: MBA project, project management thesis, project management coursework, project planning, project execution, project control, project management case studies, MBA dissertation, project management strategies, capstone project in project management

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