



# Atomicask Technical Documentation

## 1. Overview / Introduction

**Atomicask** is a SaaS platform that allows users to **upload documents and interact with them intelligently** through natural-language queries. Once a user uploads a document (such as a PDF, DOCX, or TXT file), Atomicask analyzes its content, extracts the key text data, and enables the user to **ask questions directly about the document** — receiving accurate, context-aware answers in real time.

The system uses advanced text-processing and semantic-search algorithms to understand context, summarize content, and deliver concise answers based on the uploaded material. ccAtomicask helps professionals, students, and organizations save time by **turning static documents into interactive knowledge sources**.

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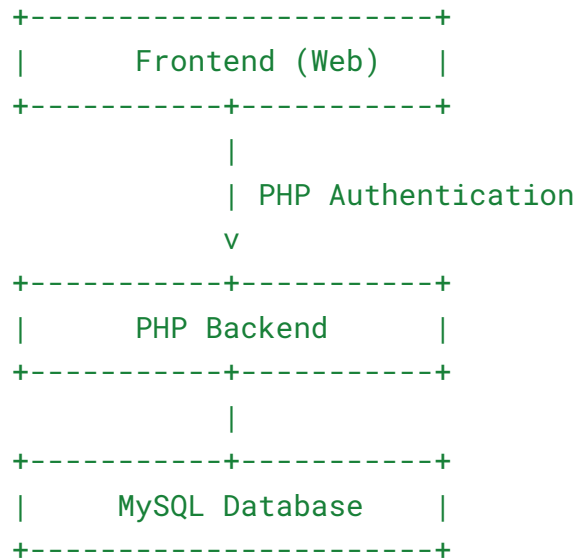
## 2. System Architecture

Atomicask follows a **modular monolithic architecture** built on PHP and MySQL. The application logic, presentation layer, and API endpoints are handled within a unified backend, while the frontend interfaces (web dashboard, API consumers) communicate through RESTful APIs.

### Components

- **Frontend (Web App)** – Built with HTML, CSS (Tailwind), and JavaScript (Vue or Vanilla JS).
- **Backend (Core API)** – PHP 8.x running on Laravel or a custom MVC framework.
- **Database Layer** – MySQL 8.x for structured data storage.
- **Authentication** – PHP sessions.
- **File Storage** – Local server storage for document uploads.
- **Deployment** – Shared hosting with Nginx/Apache.

## Architecture Diagram



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## 3. Tech Stack

Layer	Technology
Language	PHP 8.x
Database	MySQL 8.x
Frontend	HTML5, CSS3, JavaScript
API Format	REST (JSON)
Deployment	Nginx / Apache
Version Control	Git + GitHub
Storage	Local storage

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## 4. Installation and Setup

### Prerequisites

- PHP 8.x or later
- Composer
- MySQL 8.x
- Git

- Node.js (for frontend build if applicable)

## ⚙️ Installation Steps

### 1. Clone the repository

```
git clone https://github.com/your-org/atomicask.git
cd atomicask
```

### 2. Set up your environment

- Make sure you have **PHP 8+** and **MySQL** installed.
- Create a database (e.g., `atomicask_db`) in MySQL.
- Open the project's configuration file (e.g., `config.php` or any DB config file) and update your credentials:

```
$db_host = "127.0.0.1";

$db_name = "atomicask_db";

$db_user = "root";

$db_pass = "";
```

### 3. Import the database

- Locate the SQL file (e.g., `database.sql`) inside the project.
- Import it into your database using phpMyAdmin or the command line: `mysql -u root -p atomicask_db < database.sql`

### 4. Run the application

Start a local PHP server: `php -S localhost:8000`

- Visit the app in your browser at:  
👉 <http://localhost:8000>

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## 5. API Endpoints

Method	Endpoint	Description	Auth
POST	<code>/api/auth/register</code>	Register new user	No
POST	<code>/api/auth/login</code>	Authenticate and get token	No
GET	<code>/api/users/me</code>	Get current user profile	Yes

GET	/api/tasks	Get all tasks	Yes
POST	/api/tasks	Create new task	Yes
PUT	/api/tasks/{id}	Update task details	Yes
DELETE	/api/tasks/{id}	Delete task	Yes
GET	/api/questions	Fetch list of questions	Yes
POST	/api/questions	Create new question	Yes

## Example Response

```
{
  "status": "success",
  "data": {
    "id": 42,
    "title": "Fix email verification bug",
    "assigned_to": "kim@atomicask.com",
    "status": "In Progress"
  }
}
```

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## 6. Database Schema

### Tables

#### 1. users

Field	Type	Description
id	INT (PK)	Primary key
fullname	VARCHAR(255)	User's full name
email	VARCHAR(255)	Login email
password	VARCHAR(255)	Encrypted password
profilepicture	VARCHAR(255)	Path to profile image

role	ENUM('ADMIN', 'USER')	User role
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## 2. chatbot\_history

Field	Type	Description
id	INT (PK)	Primary key
chat	TEXT	Chat message content
chatfrom	ENUM('User', 'Assistant')	Message origin
chatownerid	INT (FK → users.id)	Owner of the conversation

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## 3. chat\_history

Field	Type	Description
id	INT (PK)	Primary key
document_id	INT (FK → documents.id)	Related document
chat	TEXT	Chat message content
chatfrom	ENUM('User', 'Assistant')	Sender type
chatownerid	INT (FK → users.id)	Owner of the chat

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## 4. documents

Field	Type	Description
id	INT (PK)	Primary key
name	VARCHAR(255)	Uploaded document name
folder_id	INT (FK → folders.id)	Folder association

<code>user_id</code>	INT (FK → users.id)	Owner of the file
<code>filetext</code>	LONGTEXT	Extracted or parsed text content
<code>fileactual</code>	VARCHAR(255)	File path (e.g., <code>uploads/...</code> )

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## 5. folders

Field	Type	Description
<code>id</code>	INT (PK)	Primary key
<code>user_id</code>	INT (FK → users.id)	Folder owner
<code>name</code>	VARCHAR(255)	Folder name (e.g “Advertising”)

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## 6. logs

Field	Type	Description
<code>id</code>	INT (PK)	Primary key
<code>user_id</code>	INT (FK → users.id)	User performing the task
<code>date_created</code>	DATE	Log creation date
<code>model_used</code>	VARCHAR(255)	Model name (e.g., <code>gpt-4o</code> , <code>claude-3-opus</code> )
<code>token_used</code>	INT	Token usage for the session
<code>texts</code>	LONGTEXT	Request or result text snippet

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## 7. models

Field	Type	Description
<code>id</code>	INT (PK)	Primary key

<code>model</code>	VARCHAR(255)	Model identifier (e.g., <code>claude-3-opus-20240229</code> )
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## 8. settings

Field	Type	Description
<code>id</code>	INT (PK)	Primary key
<code>streamtemperature</code>	FLOAT	Model temperature setting
<code>chunksize</code>	INT	Document chunk size
<code>chunkoverlap</code>	INT	Overlap between chunks
<code>systemprompt</code>	LONGTEXT	System-level prompt or instruction
<code>userprompt</code>	LONGTEXT	User-defined custom prompt
<code>streamingmodel</code>	VARCHAR(255)	Selected AI model (e.g., <code>gpt-4o</code> )
<code>environment</code>	VARCHAR(255)	Preset name (e.g., "Highly Detailed")

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- ✓ **Database Name:** `admin_atomicask`
  - ✓ **Tables:** `users`, `chatbot_history`, `chat_history`, `documents`, `folders`, `logs`, `models`, `settings`
  - ✓ **Total Tables:** 8
  - ✓ **Character Set:** `utf8mb4_general_ci`
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## 7. Deployment Guide

### Manual Server Deployment

1. Upload files to Plesk - Once logged in: Go to Domains -> `<domain_name>` -> Files
  2. Set permission to sensitive files like `.env` `chmod -R 775 <file>`
  3. Install the database to Domains -> `<domain_name>` -> Databases -> PHPMyAdmin
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## 8. User Manual

1. Login to <https://atomicask.com/>


Email address

Password

[Login](#) [Register](#)



2. This must be the dashboard.

Atomic Ask with 

[Upload file](#)

[Create Folder](#)

All files

Kim Yves Ramirez Updated Resume 2023.pdf

How to write a good advertisement.docx.pdf

how-to-draw-comics-the-marvel-way-by-stan-lee-john-buscema.pdf

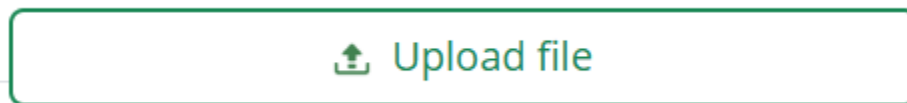
Upwork Summary for Debugger.pdf

Start uploading new PDF file by click "Upload file" button.

Highly Detailed (Default)

Type your message here

3. To start a new chat, click the Upload file button.



4. To continue with an existing chat, click any of the chat list history on the left panel.



Kim Yves Ramirez Updated Resume 2023.pdf

How to write a good advertisement.docx.pdf

how-to-draw-comics-the-marvel-way-by-stan-lee-john-buscema.pdf

Upwork Summary for Debugger.pdf

5. The environment selection lets you choose the model and environment that you need for the prompt.

Highly Detailed (Default)

6. After sending the prompt, the center chat panel will be the preview of all of the results of the prompts you sent.

The screenshot shows a chat interface with a document preview on the left and a chat panel on the right. The document preview shows a resume for Kim Yves L. Ramirez, highlighting his adaptability and learning skills. The chat panel shows a user prompt: "Give me an eye-catching headline out of this PDF". The chat response is: "Innovative Systems Developer and Analyst: Kim Yves Ramirez's Journey in Technology Mastery".

o **Adaptable and Ready to Learn:** Kim emphasizes that he is "ready to adapt to different technologies available and needed to use." This willingness to continuously learn and expand his skill set is a valuable asset in the fast-paced field of software development.

In summary, Kim Yves L. Ramirez's updated resume for 2023 showcases his extensive experience in web application development using a variety of technologies, his dedication and strong work ethic, and his adaptability to learn and utilize new tools as needed. These qualities make him a strong candidate for Java and React development roles.

Give me an eye-catching headline out of this PDF




**Innovative Systems Developer and Analyst: Kim Yves Ramirez's Journey in Technology Mastery**


7. This is the message box panel where you can write your prompt related to the document.

Type your message here

8. This is the document preview of the selected chat.







## SKILLS

Skills chart

PHP	5000
JavaScript	5000
ReactJS	4000
Java	3000
C#	4000

## WORK EXPERIENCE

**SYSTEMS DEVELOPER 1**  
**ADEC INNOVATIONS CORP.**  
January 2022 - present

- Participated on the development of Ascentify Applications using Java and React-Redux Saga technologies.
- Maintained and assisted Moodle applications from clients.
- Developed/modified Moodle plugins for clients' needs
- Upgraded clients' Moodle application for better usage
- Participated on Java Springboot application development projects from the other team.
- Participated on bug fixing from previous developments from Moodle and Java.

**SYSTEM ANALYST / PROGRAMMER**  
**ISUZU AUTOMOTIVE DEALERSHIP INC.**  
January 2020 - January 2022

- Built web applications using C# ASP.NET MVC technologies
- Built reports, and dashboards using SSRS and Microsoft Power BI.
- Participated on application and database support to maintain the productivity of Isuzu users.
- Fixed and enhance the existing desktop application of IADI which is made by VB.NET.

## EDUCATION

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**  
**CITY COLLEGE OF CALAMBA**  
2011-2021

## PROFILE

Dedicated, determined, skillful and hardworking programmer who is ready to make a difference. Ready to adapt to different technologies available and needed to use. Technically proficient to different technologies available like PHP, JavaScript, NodeJS, Java, React-Redux, etc.

## CONTACT

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9. This is the delete button where you can delete a chat history



10. This is the settings button where you can adjust and create a new environment.



Environment:

Select environment ▼

Set as new environment ☐

Temperature:

▼

Save Delete

System Prompt:

User Prompt: