



EduSorter System Introduction

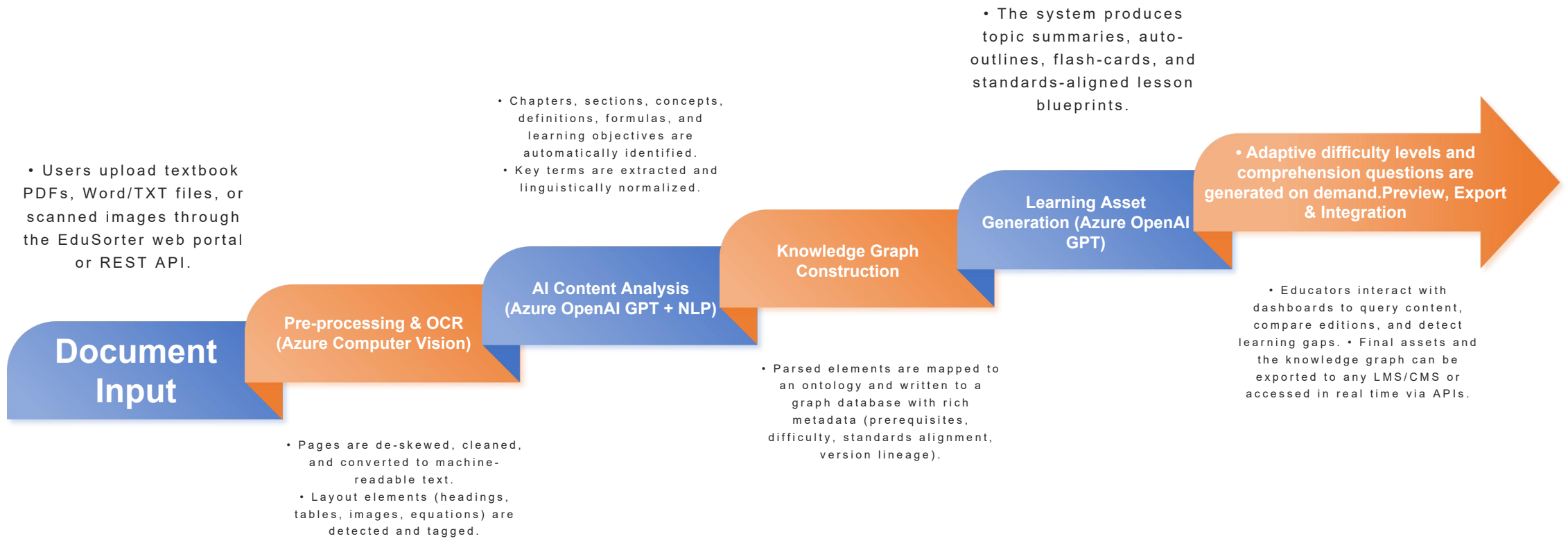
EduSorter Pro – AI Textbook Analysis Suite is an advanced EDU-centric solution that leverages Microsoft Azure AI Foundry and Azure OpenAI GPT, together with cutting-edge natural-language processing and computer-vision technologies, to transform raw textbooks into structured, searchable knowledge maps.

The system ingests PDF, TXT, Word, and scanned image files, automatically identifying chapters, sections, concepts, definitions, formulas, and learning objectives. It then converts this information into an ontology-driven knowledge graph enriched with rich metadata tags.

Powered by Azure OpenAI GPT, built-in summarization and auto-outline modules generate concise topic overviews, flash cards, and standards-aligned lesson blueprints that can be exported to any LMS or CMS.

Interactive dashboards—running on the scalable infrastructure of Azure AI Foundry—allow educators to query content, detect prerequisite gaps, and compare editions in seconds. Meanwhile, RESTful APIs enable publishers and EdTech developers to embed real-time textbook intelligence directly into their own applications.

By eliminating hours of manual indexing and content repurposing, EduSorter Pro accelerates curriculum design, enhances adaptive learning engines, and empowers teachers and students with instant access to the right knowledge at the right time.





Document Input and Pre-processing

Home

Document Analysis

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Recently Processed Documents

Document Name	Upload Date	Knowledge Points	Status	Actions
<div>PDF</div> High School Mathematics Vol.1	2024-05-12	78	Completed	<div><div></div><div></div><div></div></div>
<div>WORD</div> High School Physics Vol.3 - Electromagnetics	2024-05-10	65	Completed	<div><div></div><div></div><div></div></div>
<div>PPT</div> Junior High English Grammar Guide	2024-05-08	92	Completed	<div><div></div><div></div><div></div><div>Download Resource</div></div>
<div>PDF</div> High School Chemistry Lab Guide	2024-05-05	45	Completed	<div><div></div><div></div><div></div></div>
<div>TXT</div> Junior High History Compilation	2024-05-01	103	Processing	<div><div></div><div></div><div></div></div>

Quick Actions

Upload Document

Extract knowledge from materials

Upload Now

Browse Library

View extracted knowledge points

Browse Now

Explore Graph

Visualize knowledge connections

Start Exploring

Knowledge Distribution

Mathematics

Physics

Chemistry

Biology

History

Geography

English

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Shenzhen, China

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AI-Powered Document Analysis

Upload PDF, Word, TXT, or PPT files to automatically extract, organize, and summarize knowledge points into a structured system.

1. Upload Files

2. Processing

3. Analysis Results

Drag and drop files here, or click to upload

Supports PDF, Word, TXT, and PPT formats

Privacy Notice

All uploaded documents are used only for knowledge extraction and will not be permanently stored. We use Azure AI Foundry for secure processing to ensure your data privacy.

Logout



AI Content Analysis

Function Definition and Properties

Basic Information

Subject: **Mathematics**

Type: **Concept**

Source: High School Mathematics Vol.1

Content

A function is a relation between two sets where each element in the first set has exactly one corresponding element in the second set. The three essential elements of a function include domain, correspondence rule, and range.

Related Tags

#function #set #correspondence

Related Knowledge Points

Function Graphs **Concept**

Advanced Topic

Linear Functions **Concept**

Basic Knowledge

Quadratic Functions **Concept**

Related Concept

Function Applications **Example**

Practical Application

Close

Chemical Equilibrium Constant

Basic Information

Subject: **Chemistry**

Type: **Formula**

Source: High School Chemistry Vol.4

Content

The equilibrium constant K is a value that expresses the ratio of product concentrations to reactant concentrations at equilibrium. For a reaction $aA + bB \rightleftharpoons cC + dD$, $K = \frac{[C]^c [D]^d}{[A]^a [B]^b}$.

Related Tags

#equilibrium #reversible reaction #concentration

Related Knowledge Points

Function Graphs **Concept**

Advanced Topic

Linear Functions **Concept**

Basic Knowledge

Quadratic Functions **Concept**

Related Concept

Function Applications **Example**

Practical Application

Close



Knowledge Graph

Educational Resource Analysis Platform

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Search knowledge points, keywords, or tags

Q

All Subjects

All Types

Advanced Filter

Knowledge Points

Total: 5 points

Function Definition and Properties

Mathematics

Concept

A function is a relation between two sets where each element in the first set has exactly one corresponding element in the second set. The three essential elements of a function include domain, correspondence rule, and range.

#function#set#correspondence

Source: High School Mathematics Vol.1

DetailsEditShare

Quadratic Function Graph

Mathematics

Formula

The graph of a quadratic function $f(x)=ax^2+bx+c$ ($a\neq 0$) is a parabola. When $a>0$, the parabola opens upward; when $a<0$, the parabola opens downward. The axis of symmetry is the line $x=-b/(2a)$.

#quadratic function#parabola#axis of symmetry

Source: High School Mathematics Vol.1

DetailsEditShare

Newton's Second Law

Physics

Theorem

The acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass. The formula is $F=ma$.

DetailsEditShare

Logout



Preview, Export & Integration

Educational Resource Analysis Platform

Admin

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Document Analysis

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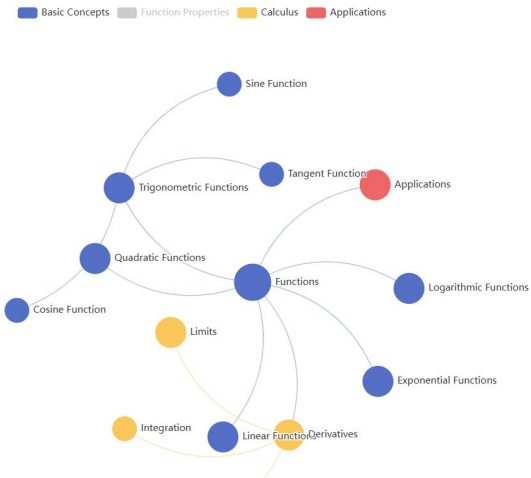
Knowledge Graph

Test Generator

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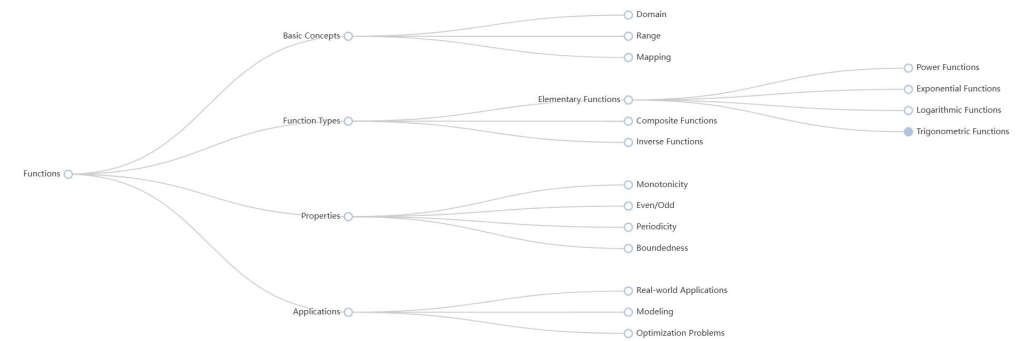
Subject Area: Mathematics
Complexity Level: Simple Medium Complex
Layout Type: Force Circular Tree
Show Labels: ☒

Reset View Export Graph



Subject Area: Mathematics
Complexity Level: Simple Medium Complex
Layout Type: Force Circular Tree
Show Labels: ☒

Reset View





Learning Asset Generation

Educational Resource Analysis Platform

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- Test Generator**
- Settings

Select Knowledge Points

Conservation of Momentum ×

Test Settings

Number of Questions

10

Difficulty Level

Easy Medium Hard

Question Types

Multiple Choice ×

Generate Test

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Test Generated

Selected Knowledge Points: 1
Number of Questions: 10

Difficulty Level: Medium
Question Types: 1

Export Test Generate New

Question 1

Multiple Choice

Which of the following statements about function definition is correct:

- ☐ A. A function must have an analytical expression
- ☐ B. A function must be continuous
- ☐ C. A function is a mapping from one set to another where each element in the first set has exactly one image
- ☐ D. The domain of a function must be all real numbers

Answer Key

C

Explanation

A function is a mapping that uniquely associates each element from a set (domain) to an element in another set (range). Functions do not necessarily need analytical expressions, do not have to be continuous, and their domains are not restricted to all real numbers.

Question 2

Fill in the Blank

The graph of a quadratic function $f(x) = ax^2 + bx + c$ ($a \neq 0$) is a _____, and when $a > 0$, it opens _____.

Enter your answer

Enter your answer



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Azure Integration Settings

Configuration Guide

1. Create an AI Foundry resource in Azure Portal
2. Get required information from the "Keys and Endpoint" page
3. Get SAS URL from Azure Storage account
4. Fill in the configuration details below

* Azure AI Foundry Endpoint

* API Key

* Blob Storage SAS URL 

* Container Name

Save Configuration

Test Connection



Product pricing planning

- the product is priced at \$100~\$500 per piece.
- Azure usage fees are calculated based on actual consumption.