

LAWTALK

Data Mining

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05/04/2024

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01

Domain

02

Development Plan

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Goals

DOMAIN

01 Portuguese legal system, with an emphasis on criminal law.

01 Substantive Criminal Law

02 Procedural Criminal Law

02 Data Sources

01 Theoretical notes on Criminal Law

02 Penal Code

03 Code of Criminal Procedure

DOMAIN

03 Domain Justification and Use Cases

- 01 Lack of Exploration in the Field
- 02 Educational and Accessibility Purposes
- 03 Ease of Use

04 Target Audience

- 01 Law Students
- 02 Laypeople
- 03 Legal Practitioners

DEVELOPMENT PLAN

RESOURCES

01

Language – Python

02

Framework – Langchain

03

Large Language Model – Ollama Family

01

Gemma

02

Mistral

04

Vector Database – ChromaDB

05

User Interface – Streamlit



Ollama

DEVELOPMENT PLAN

TASKS

01 Create a functional ChatBot with aforementioned tools

02 Implementation

01 Contextual Awareness

02 RAG with Data Sources

03 Benchmarking Strategies

04 Graphical User Interface (GUI)

DEVELOPMENT PLAN

WORKFLOW

Gantt Chart	29 March	5 April	12 April	19 April	26 April	3 May	10 May	17 May	24 May	31 May
Step 1: Research and Planning										
Step 2: Create a functional prototype										
Step 3: RAG with Data Sources										
Step 4: Implement Contextual Awareness										
Step 5: Benchmarking Strategies										
Step 6: Graphical User Interface (GUI)										
Step 7: Tweaks and Improvements										

GOALS

01 Develop a practical ChatBot application

01 Natural Language Performance

02 Customization

03 Efficiency



EXAMPLE

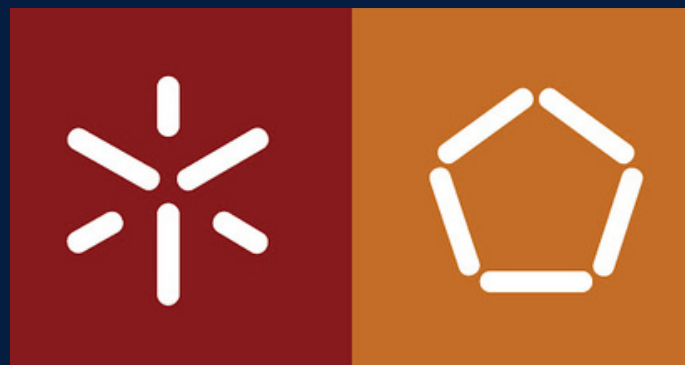
Question:

As finalidades do processo penal podem ser entendidas em que sentido?



Answer:

*As finalidades do processo penal podem ser entendidas em dois sentidos: o **sentido axiológico** e o **sentido sociológico**.*



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