

# ASSIGNMENT ON COM 423 TASK 2

## BY

# UCHE PRECIOUS NDIDI

## 2022/HND/35568/CS

### 1. Legal Expert System

**Expert System:** ROSS Intelligence

**Domain:** Legal Research and Analysis

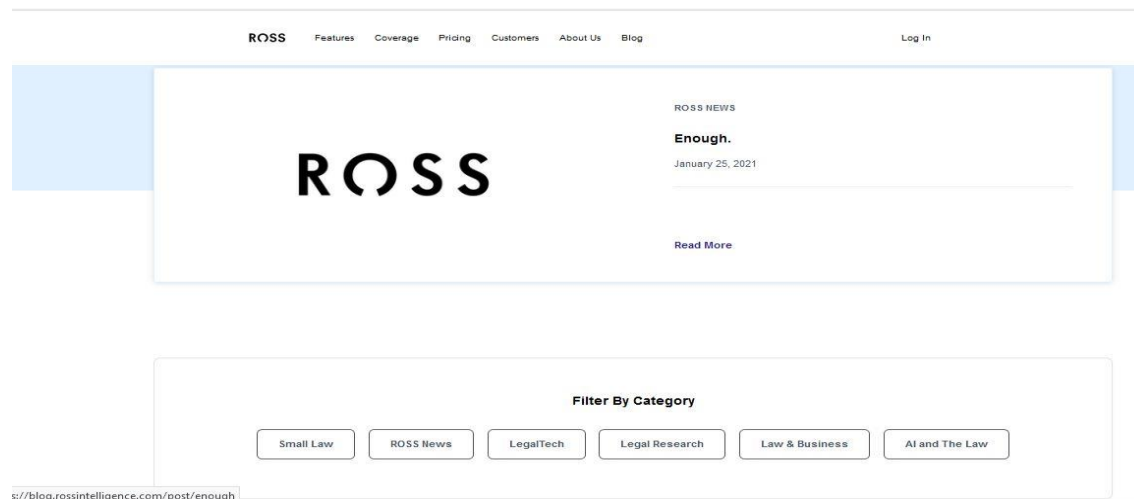
**Interaction:**

- **Input:** Legal queries, case details, or specific legal issues.
- **Output:** Relevant case law, statutes, regulations, and legal precedents.

**Example Interaction:**

- **User Input:** "What are the recent developments in trademark law regarding online infringement?"
- **System Output:** "Recent court decisions have shown a trend towards stricter enforcement of online trademark infringement, particularly in cases involving e-commerce platforms. For specific cases and precedents, consider reviewing recent rulings in the Ninth Circuit Court."

ROSS Intelligence uses natural language processing and machine learning algorithms to provide lawyers and legal professionals with actionable insights and updates in the field of law.



## 2. Engineering Design Expert System

**Expert System:** Expert Mold Designer (EMD)

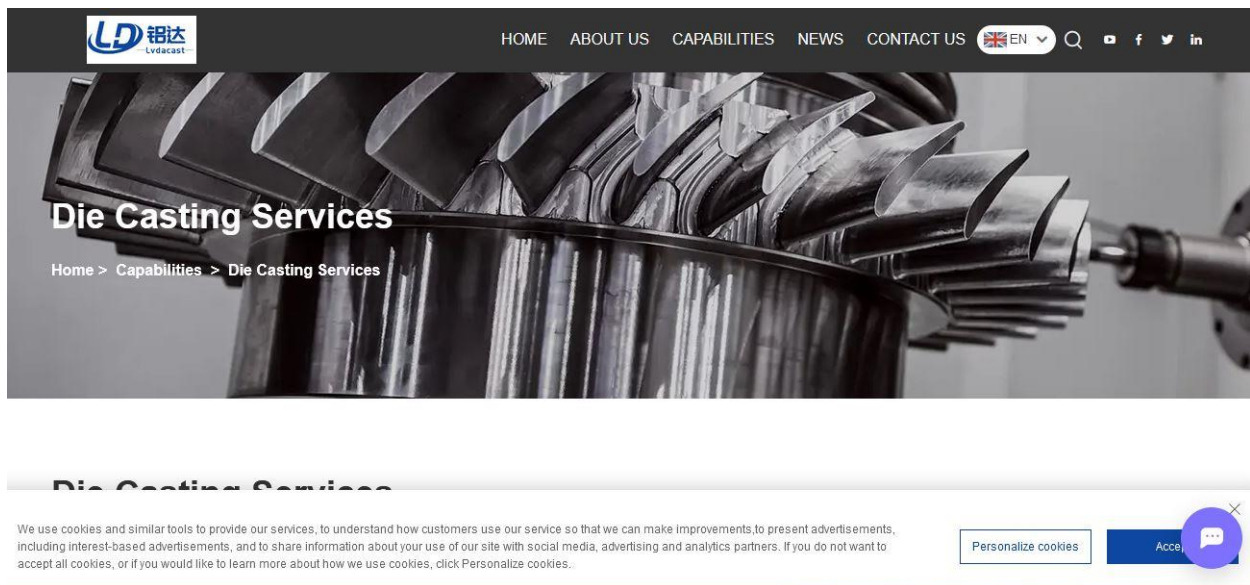
**Domain:** Engineering and Manufacturing (specifically mold design)

**Interaction:**

- **Input:** Requirements for mold specifications, material properties, production constraints, and design criteria.
- **Output:** Detailed mold design proposals, including CAD models, material recommendations, cooling system layouts, and estimated production costs.

**Example Interaction:**

- **User Input:** "Design a mold for a plastic injection part with specific dimensions and production volume requirements."
- **System Output:** "Based on your input, here is a detailed mold design proposal. The mold will include a multi-cavity layout to optimize production efficiency, with recommended materials and cooling channels designed to ensure uniform part quality. Estimated production costs and lead times are also provided."



Expert Mold Designer (EMD) integrates engineering principles, material science, and manufacturing expertise to automate the complex process of mold design, helping engineers and manufacturers streamline their product development and production processes.