# ASSIGNMENT ON COM 423 TASK 2
## BY
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# 2022/HND/35634/CS

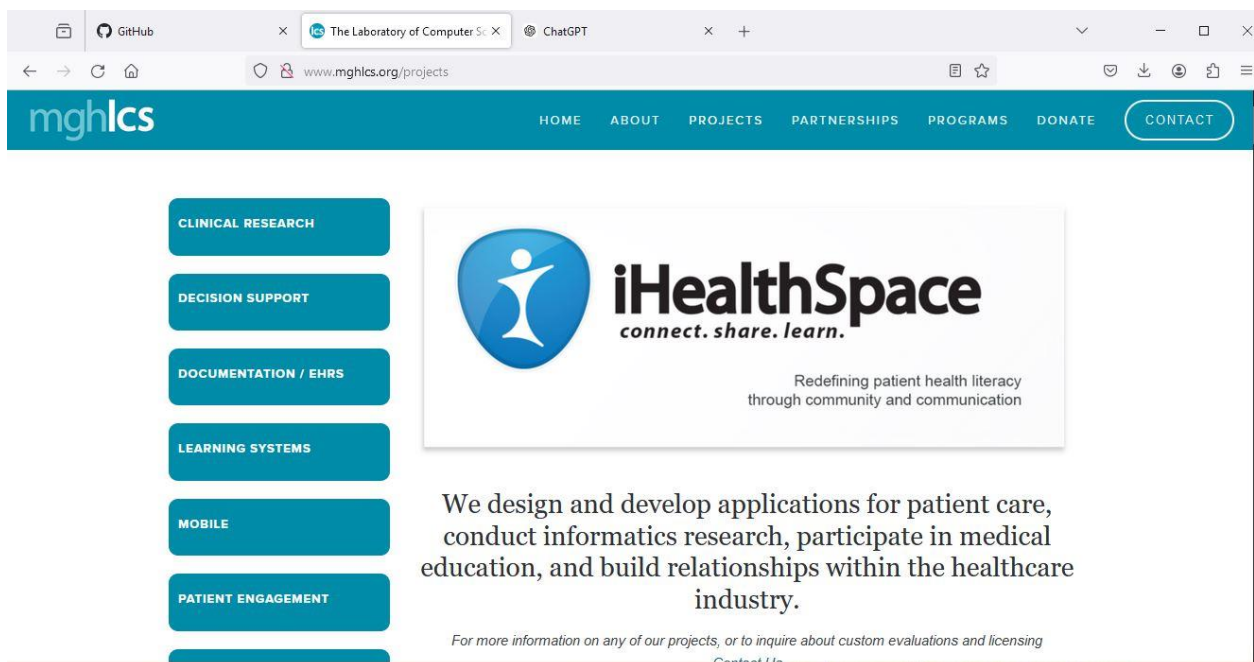## 1. Medical Diagnosis Expert System

**Expert System:** DXplain

**Domain:** Healthcare/Medical Diagnosis

**Interaction:**

- **Input:** Symptoms and clinical findings entered by the user.
- **Output:** Potential diagnoses ranked by likelihood, along with explanations and supporting medical literature.

**Example Interaction:**

- **User Input:** "Patient presents with fever, cough, and chest pain."
- **System Output:** "Possible diagnoses include pneumonia, bronchitis, and influenza. Based on additional symptoms and test results, pneumonia is the most likely diagnosis. This conclusion is supported by clinical guidelines and recent studies."

## 2. Financial Advisory Expert System
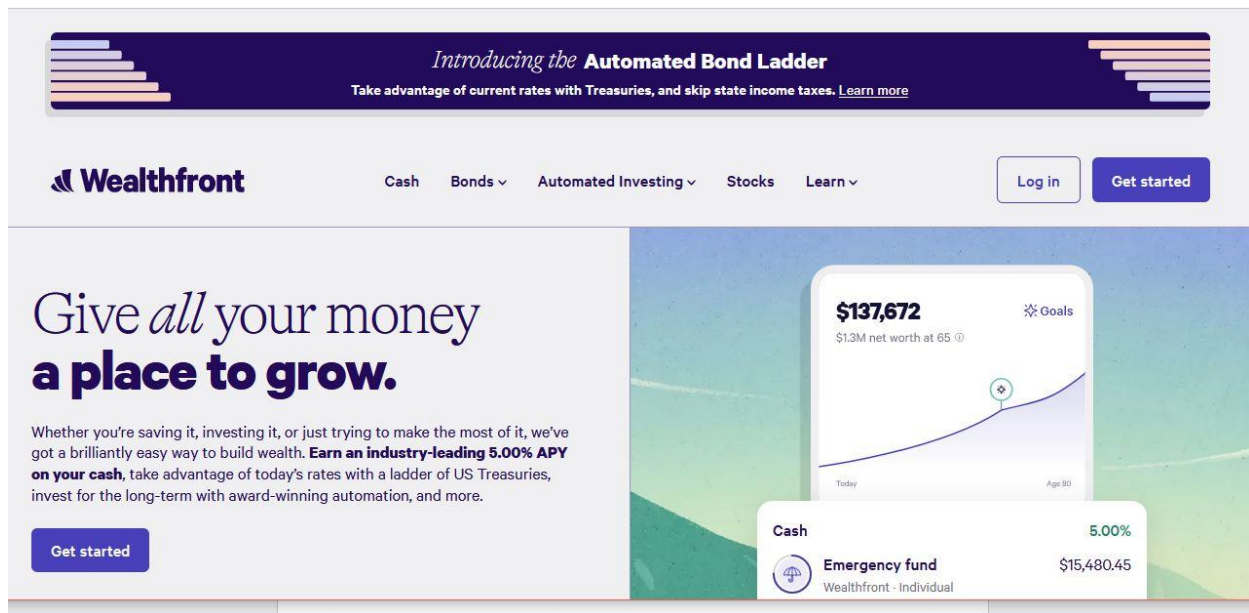
**Expert System:** Wealthfront

**Domain:** Personal Finance and Investment

**Interaction:**

- **Input:** User's financial goals, risk tolerance, current assets, and investment preferences.
- **Output:** Customized investment portfolio recommendations and financial planning advice.

**Example Interaction:**

- **User Input:** "I am 30 years old, with a moderate risk tolerance, and I want to save for retirement."
- **System Output:** "Based on your age, risk tolerance, and retirement goals, we recommend a diversified portfolio consisting of 70% stocks and 30% bonds. This allocation is designed to achieve long-term growth while managing risk. Additionally, consider contributing to tax-advantaged retirement accounts such as a 401(k) or IRA."



These expert systems utilize knowledge bases, algorithms, and rules to simulate human expertise in their respective domains, providing users with valuable insights and recommendations based on the information provided.