

PROJECT REFINEMENT

The content of our project is **Childhood Ailment Diagnosis**. The rough architecture is to use **SmartLinks** to connect the HTML-page-structure to a semantic-network, traverse the semantic-network, and then return to the HTML location which corresponds to the end of the semantic-network path.

So we'll be constructing two (or more) databases: the **structural-HTML-database** and the **semantic-net-database**. Then we'll be constructing a **linking database**, which contains the connectivity between syntactic and semantic elements. We will also need a **traversal engine** as the back-end, and a **query interface** as the front-end.

Issues:

1. Review class assignments; make a rough pass at the data structures (the HTML structure graph and the semantic network graph).
2. Refine content area.
3. Refine semantic nets, and identify what we can do semantically. Types of traversal. Identify the language of the semantic-net (ie what types of nodes and links)
4. Discuss the types of structural (HTML) forms. Grainsize of information units; grainsize of textual and paragraph HTML; types of knowledge units. Other types of syntactic organization. Other types of semantic queries.
5. Rough pass at the control structure architecture.
6. Discuss the implications of the semantic-net modeling approach, the notion of ontology and the mappings from semantic-nets to relational calculus.
7. Discuss the limitations and traps in the proposed control architecture.
8. Identify roles, esp. who will be writing what code. Identify the requisite languages, skills and roles for the project. (content and site development, link definition, engine development, interaction design,...)
9. Continue to develop usage scenerios.
10. Consider the interaction and user-interface issues.
11. Discuss the issue of novice vs expert users.
12. Discuss the issue of partial vs. complete knowledge. Hypothesis testing in diagnosis.