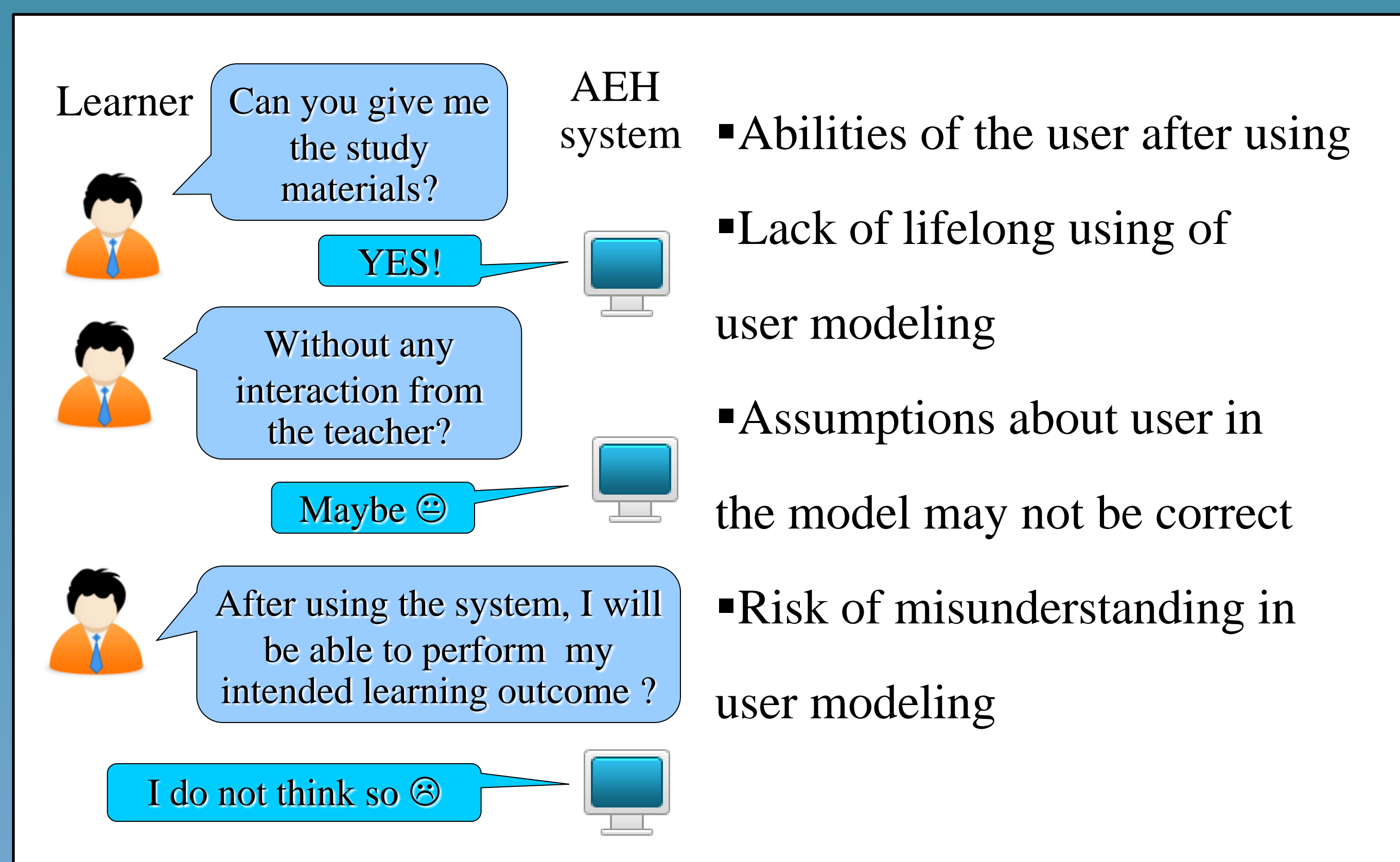


Semantic Competency-Based System for Recommending Study Materials

1 Problems behind AEH systems

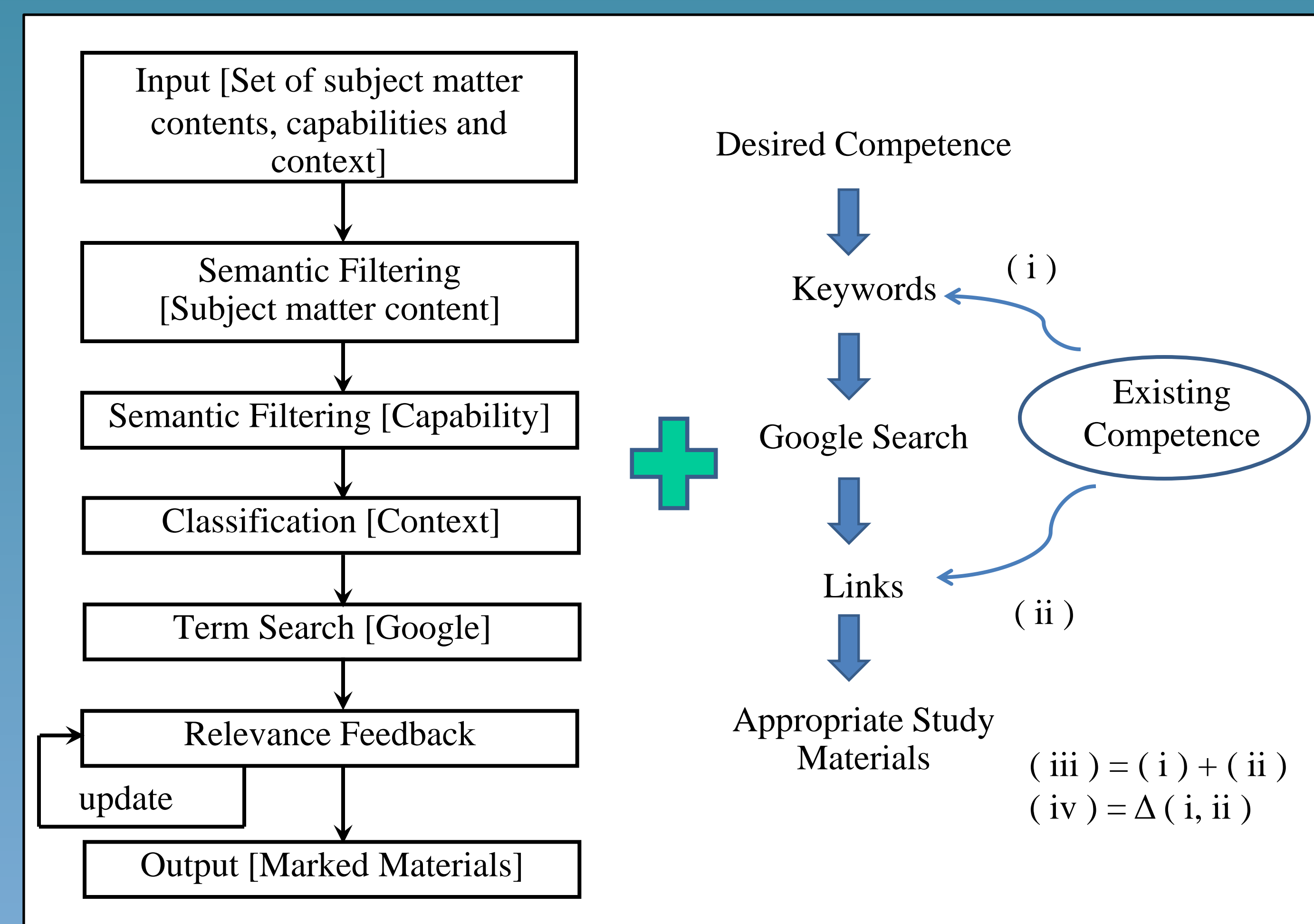


2. Aim and Motivation

To design a system so that a learner can find appropriate study materials on the web based on his/her competencies without any interaction from the teacher.

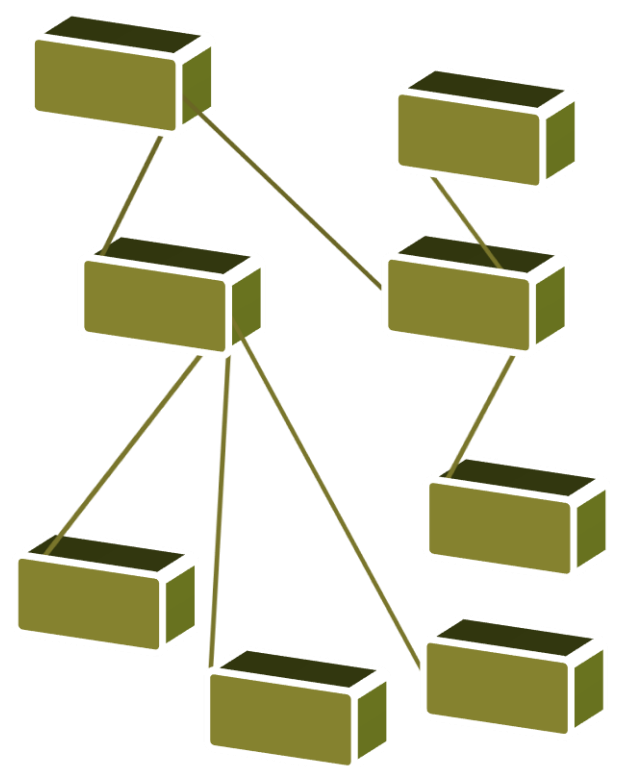
- Teacherless
- Lifelong using
- User ability supportive
- Consistency & Standard
- Effectiveness & Interoperability

3. System Algorithm



4. How does Semantic Web Technology help the algorithm?

- Knowledge Representation of learner's competence**
 - Well-defined meaning with common format
 - Easy and more comfortable for using and searching information (competences)
 - Understandable for both human and machine
- Recommendation techniques with Semantic Web Technology**
 - Semantic Filtering
 - Classification



5. Future Work

- Developing Algorithm**
The exploration of effective techniques for suggesting keywords
- Designing Prototype**
The design is based on system algorithm in order to suggest the Google input keywords for the learner based on his/her competence
- Compatible IMS LD**
The learning design with embedded competency model and adaptive component

