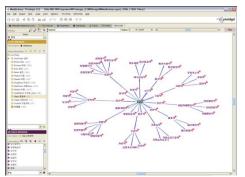
A TGViz based Viewing Plugin for Oriental Medicine Ontology Hyun Chul Jang, Sang-Kyun Kim, Sang-Jun Yea, Chul Kim, Mi-Young Song Korea Institute of Oriental Medicine, Korea

TGVizTab is a plugin for Protégé which allows visualizing ontologies using the TouchGraph library [1]. TouchGraph provides a java library for rendering networks as interactive graphs [2]. TGVizTab plugin offers various functions and we have added some functions into the TGVizTab for the following requirements.

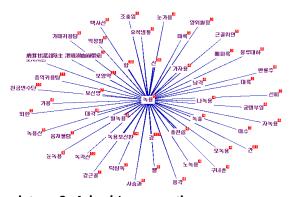
In domain of oriental medicine, a concept has a hierarchy same as the others. For an example, a kind of medicine, '발산풍한약'(BalSanPoongHanYac, 發散風寒藥, wind-cold-dispersing medicinal) is one of '해표약' (HaePyoYac, 解表藥, exterior-releasing medicinal) and one of '본초'(BonCho, 本草, materia medica) which means oriental medical herbs [3]. Much of relation in oriental medicine has this relationship and a user repeatedly wants follow a higher concept or category as shown in picture 2.

And oriental medical herbs have a lot of properties as picture 3 and a user frequently likes to choose one

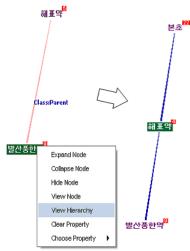
category among them as picture 4.



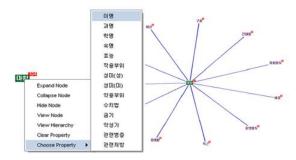
picture 1. Protégé and plugin



picture 3. A herb's properties



picture 2. Viewing hierarchy



picture 4. Filtered property

This plugin has no trouble to display Korean names and Chinese names but just warns Chinese names are not in Unicode Normal Form C [4]. It is very useful to navigate our oriental medicine ontology which a medicine or a formula shares the same effect or the same disease.

- [1] http://www.touchgraph.com/navigator.html
- [2] http://users.ecs.soton.ac.uk/ha/TGVizTab/
- [3] WHO International Standard Terminologies on Traditional Medicine in the Western Pacific Region, World Health Organization, 2007
- [4] Jena parse error message: {W131}