COM SCI 230 Software Engineering

Survey of $\mathcal{DUCK}$ - A Dynamic Universal Software System Visualization Kit

First Name:_____   Last Name:_____   Major:_____

I. Concrete Question

1. Are you an undergraduate, graduate or current Computer Science related worker?

2. How many years of software development experience do you have?

3. Describe your frequency in experiencing software visualization related tool. (By saying experiencing, we mean using or designing software visualization tools)
A. Never   B. Seldom   C. Sometimes   D. Often

4. Which metric do you think is the most significant you have observed in $\mathcal{DUCK}$?
A. Lines of code   B. Number of methods   C. Number of codes

5. Which plot impresses you most? Please specify your reasons.
A. Hierarchy   B. Sunburst   C. Edge Bundling   D. Circle Packing   E.Bubble Chart

Specify your reasons:

6. *Importance Visualization*
In class ndn::ndns::ManagementTool, select all the methods you think might be important and would try to focus on at first stage.(Select all the choices you believe are important). Please justify the reason of your choices.

☐ listZone()   ☐ exportCertificate()

☐ createZone()   ☐ addRrset()

☐ addMultiLevelLabelRrset()   ☐ getZoneDkey()

☐ addRrsetFromFile()   ☐ getRrset()

Specify your reasons:

8. *Dependency Visualization*

Given a certain class, choose all the classes from the box you think have dependencies with it.

Class Box:
ndn::ndns::Query
ndn::ndns::Zone
ndn::ndns::ManagementTool
ndn::ndns::ConfigFile
ndn::ndns::NameServer
ndn::ndns::RrsetFactory
ndn::ndns::ValidatorNdns
ndn::ndns::DbMgr
ndn::ndns::Response
ndn::ndns::IterativeQueryController
ndn::ndns::NdnsCacheResolver
ndn::ndns::CertHelper
ndn::ndns::Rrset

Situation 1:
If you need to change the APIs of ndn::ndns::ValidatorNdns, you would also be interested in the following class.

Situation 2:
The following classes may be examined to fix the bug if an exception is thrown in ndn::ndns::Zone.

9. *DUCK-based Evaluation*

With the help of *DUCK*, my understanding level of the project is:_____. (Value ranges from 1-10, 1 means you have no idea what this project is about)

II. Open Question

10. From the visualization perspective, what else do you expect from our tool? Or any suggestions on *DUCK*. We ALL value your participation on this survey, we hope you can leave any comments or advice for our future work.

Leave your comments and suggestions here:
eg. Which attributes you consider important are missing in our tool?