

COM SCI 230 Software Engineering

Survey on 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 both using or designing software visualization tools)

☐ Never

☐ Seldom

☐ Sometimes

☐ Often

4. Which plot impresses you most? And specify your reasons.

☐ Hierarchy

☐ Sunburst

☐ Edge Bundling

☐ Circle Packing

Specify your reasons:

5. 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 is important)

A. `listZone()`

B. `exportCertificate()`

C. `createZone()`

D. `listAllZones()`

E. `addMultiLevelLabelRrset()`

F. `getZoneDkey()`

6. Hierarchy Visualization

From the method box, group all methods you think are in the same hierarchy. (Or given several files, simply draw the diagram, say group them if you think file A and B is in the same hierarchy)

Method Box:

`toData()`
`addRr()`
`fromData()`
`checkZoneKey()`
`sign()`
`listZones()`
`find()`
`findLowerBound()`
`clearAllData()`

Answer:(Draw any diagrams which make your idea clear)

7. *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::Validato
ndn::ndns::DbMgr
ndn::ndns::Response
ndn::ndns::IterativeQueryController
ndn::ndns::NdnsCacheResolver
ndn::ndns::CertHelper
ndn::ndns::Rrset

Situation 1:

When dealing with class ndn::ndns::ValidatorNdns, you would also be interested in the following class.

Situation 2:

The following classes will NOT be a concern (you will NOT debug on these classes) if you happen to find a bug in class ndn::ndns::Zone.

8. *DUCK-based Evaluation*

Evaluate to what extent you understand the system. (value ranges from 1-10, 1 means you have no idea what this project is about)

With the help of DUCK, your understanding level of the project is: _____. (1-10)

II. Open Question

9. From the visualization point, 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?

Signature: _____

Date: _____