Training has been undertaken
Mentoring possibly in place
Getting familiar with tooling

Start with simple application, possibly read only Regularly look in source pane

Consider more complex layouts with Repeat Controls then nested repeats
Use fewer @Formulas
Use java.util collections
(HashMap, ArrayList etc)
Consider using source control

Starting to read stack traces
Starting to understand page
lifecycles
Programmatically accessing
properties of controls
Heavily using themes
Editable mobile XPages apps

Getting comfortable with basic Java classes Comfortable with SSJS syntaxes Using third-party Java in SSJS

Start using managed beans Use Java utility classes Comfortable with Java

Develop code in plugins

– reusable classes,

controls

# **Pre-Requisites**

HTML
Awareness of XML
CSS
JavaScript
Domino Object Model

Install plugins in Domino
Designer
Comfortable with properties,
events and scoped variables
Using Custom error pages
Handling validation
Getting comfortable with SSJS
(not Java developers)

Work mainly in source pane Consider using "loaded" more Consider using themes Using a wide variety of original and Extension Library controls Comfortable with multiple dominoDocuments on page Comfortable with Repeat Controls Using compositeData

Use Custom language
Add a PhaseListener where
required to understand lifecycle
Use execMode as appropriate
Look at persistence Xsp
properties
Look at dataContexts

Using Java more
Using Java debugger

Use Validators,
Converters, DataObjects,
ValueChangeListeners
Look at BigDecimal for
numbers
Look at controller classes,

# Key

ExperienceNext StepsResources

# **OpenNTF Projects**

XPages OpenLog Logger XPages Debug Toolbar XPages Log Reader OpenNTF Essentials

### Websites

http://openntf.org http://openntf.org/xsnippets.nsf

### Software

SourceTree GitHub or other Source Control Repository

## Resources

"Mapping Java
Collections" on http://
www.intec.co.uk/blog
NotesIn9 140
SourceTree Deepdive

### **Books**

XPages Portable Command Guide

# **OpenNTF Projects**

XPages Toolbox Bootstrap4XPages

# **Non-XPages Projects**

jQuery FontAwesome

# Java Projects

Apache POI Apache StringUtils

# **Books**

Head First Java

# OpenNTF Projects

OpenNTF Domino API

### Look at Code

XPages Help Application XPages OpenLog Logger OpenNTF Domino API Extension Library

# **Software** Eclipse

# **OpenNTF Projects**

XPages Scaffolding XPages SDK / Debug Plugin XPages Starter Kit

### Books

Mastering XPages 2<sup>nd</sup> Ed XPages Extension Library

### Websites

http://xpages.info
http://notesin9.com (see http://www.mindmeister.com/280533435/notesin9)
http://stackoverflow.com