Consolidated Sequence Model

Task A: fixing problems in code (bugs)

ACTIVITY	INTENT	ABSTRACT STEP

Prepare to do work	• Start work day	• Open Service Studio (all users)
		• Login and connect to server (all users)
		    - X: slow connection times harm user's work (M26)
		• Download eSpace (all users)
		    - X: download time is long (Q35)
		    - From Service Studio
		    - From Service Center (Q35)
		        » X: user has difficulty choosing the eSpace version he wants from Service Center (K42)
		• Asked by system to update references (all users)

Find problems to fix	• Fulfil client request (J19) • Complete task assigned to him (M26, Q35) • Complete approved requirements assigned to him (J19) • Continue working (T70)	• Trigger: Find problems to fix - Receive email from collegue with to-do list (M26) - Receive email from client with to-do list (J19) - Look at to-do list (Q35, M26) - Look at project mgmt web site (K42, X97, B53, M26)

Locate the problem	• Fix the problem	Try to find the problem location:
		- Verify eSpace (T70)
		- Use Firebug (K42, Q35)
		- Debug code (A68, Q35)
		• Add breakpoints (A68, Q35)
		    - X: Cannot add conditional breakpoints (Q35)
		    - X: Debugging takes long (A68)
		• Check running application
		    - - X: Running takes a long time (Q35)
		• Inspects results in debugger (A68)
		- Review errors (X97, T70)
		- Inspect running application
		    - Visual search in browser (A68, Q35)
		        » Login page to inspect (all users)
		        » X: user forgets username and/or

password (J19)

» Navigates to page in development (all users)

- Visual search of code (Q35, A68)

» X: Bug is difficult to locate in logic (Q35)

- Debug

- Inspect code (Q35)

- X: Takes a while to understand what the problem is with Expression Editor (A68)

| Fix problem | • Correct errors after verifying an eSpace (J19)
• Make sure application is running as intended (A68)
• Fix the known bug at once by workaround (Q35) | • If error is found:
• Decide if it's easy to fix (T70)
• Edit code (J19, Q35)
   - Add code attributes*
   - Edit attribute properties
   - Copies attribute to create new similar one (K42)
   - Add comments in the logic (Q35)
• If not found
   - Debug code (Q35)
• Validate code (J19)
   - Inspect business logic flow
   - Inspects and edits Design View
   - Preview application in browser
• Debug code again if needed
• Verify eSpace (all users)
• Publish code (J19)
• Check running application
   - X: Running takes a long time (Q35)

* Actions, Page Flows, Advanced Queries, Queries, Assign and other logic, Entities, Condition, Expression Editor, eSpace References |

| Update bug status | • Notify stakeholders | • Update bug status on project mgmt web site (X97)
• Send email (M26) |

Task B: doing work (developing new code)

ACTIVITY	INTENT	ABSTRACT STEPS

Prepare to do work	• Start work day	• Open Service Studio (all users)
		• Login and connect to server (all users)
		   - X: slow connection times harm user's work (M26)
		• Download eSpace (all users)
		   - X: download time is long (Q35)
		   - From Service Studio
		   - From Service Center (Q35)
		      » X: user has difficulty choosing the eSpace version he wants from Service Center (K42)
		• Asked by system to update references (all users)

Find work to do	• Fulfil client request (J19) • Complete task assigned to him (M26, Q35) • Complete approved requirements assigned to him (J19) • Continue working (T70)	• Trigger: Find work to do - Receive email from collegue with to-do list (M26) - Receive email from client with to-do list (J19) - Look at to-do list (Q35, M26) - Look at project mgmt web site (K42, X97, B53, M26)

Create code	• Develop application	• Find code where he left off
		   - X: Cannot easily find where he left off (M26)
		• Edit code (J19, Q35)
		   - Add code attributes*
		   - Edit attribute properties
		   - Copies attribute to create new similar one (K42)
		   - Add comments in the logic (Q35)
		
		• Validate code (J19)
		   - Inspect business logic flow
		   - Inspects and edits Design View
		   - Preview application in browser
		• Debug code if needed
		• Verify eSpace (all users)
		• Publish code (J19)
		• Check running application
		   - X: Running takes a long time (Q35)

Update task status

- Notify stakeholders

- Update task status on project mgmt web site（X97)
- Send email (M26)