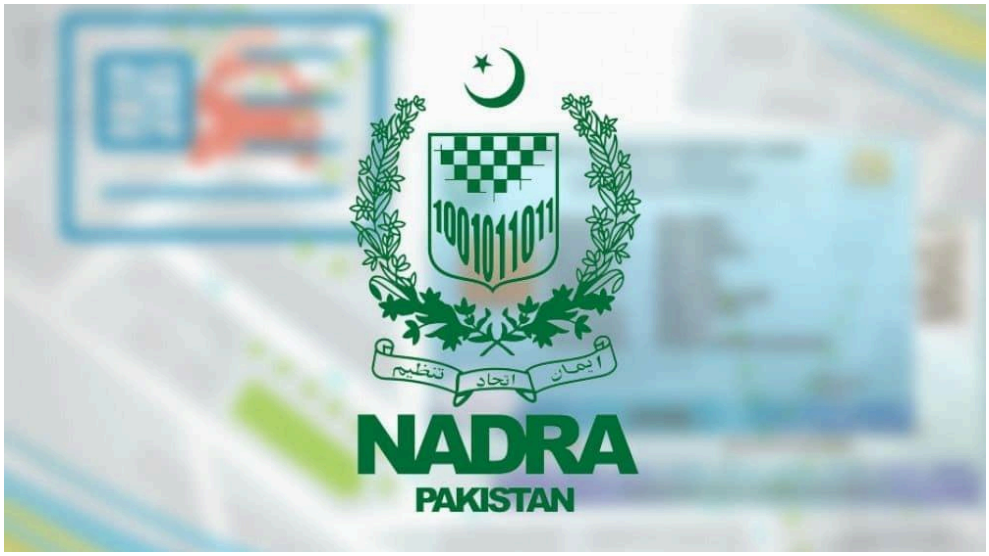


Activity Diagram

Project Title: ***NADRA***

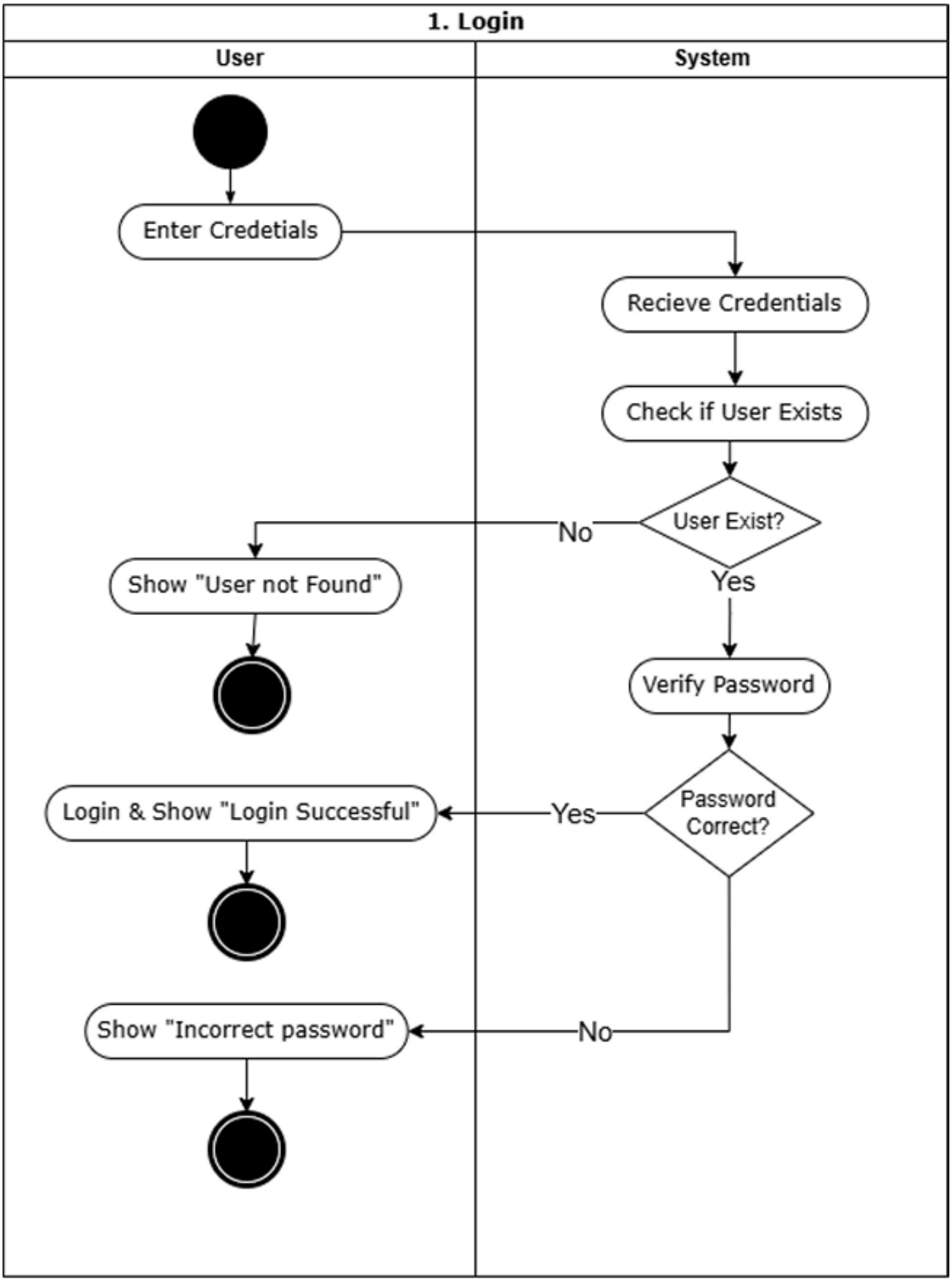
Course Title: Software Construction & Development

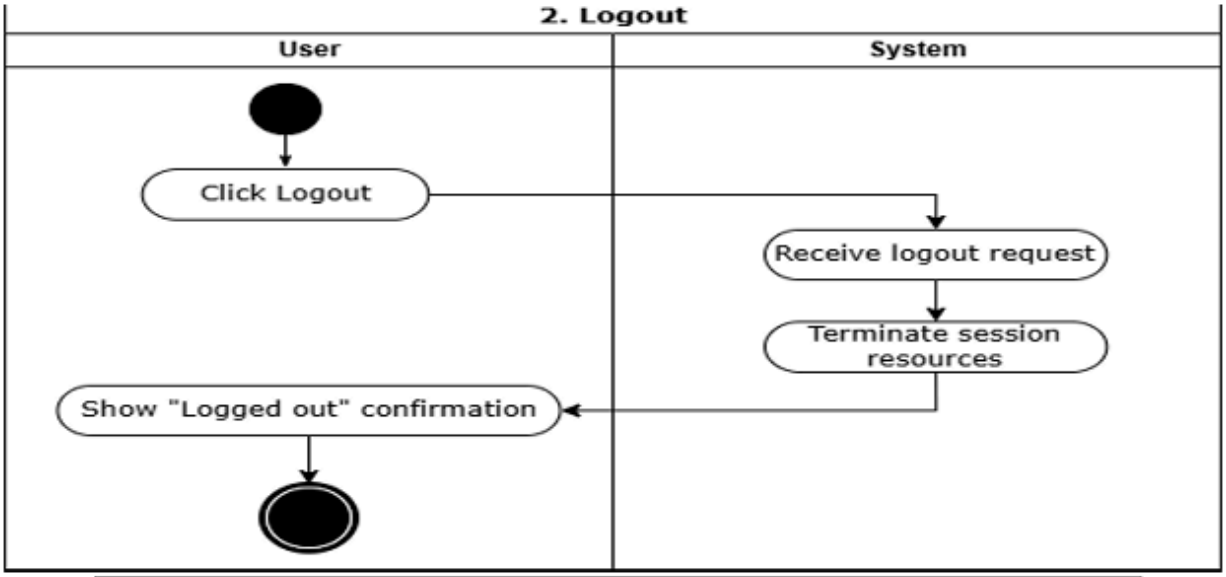
Department: Computing (***Software Engineering***)

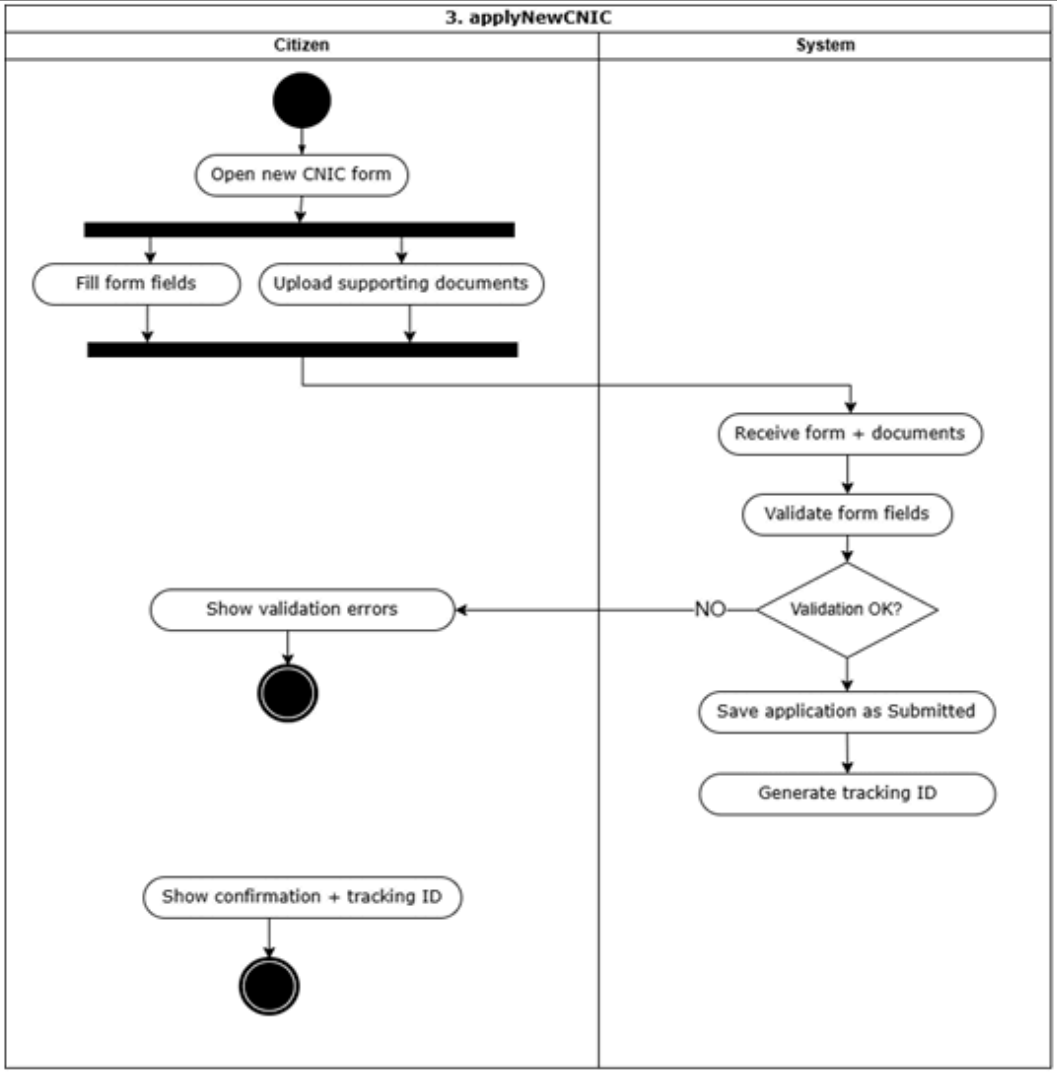
Submitted To: Islam Abbasi

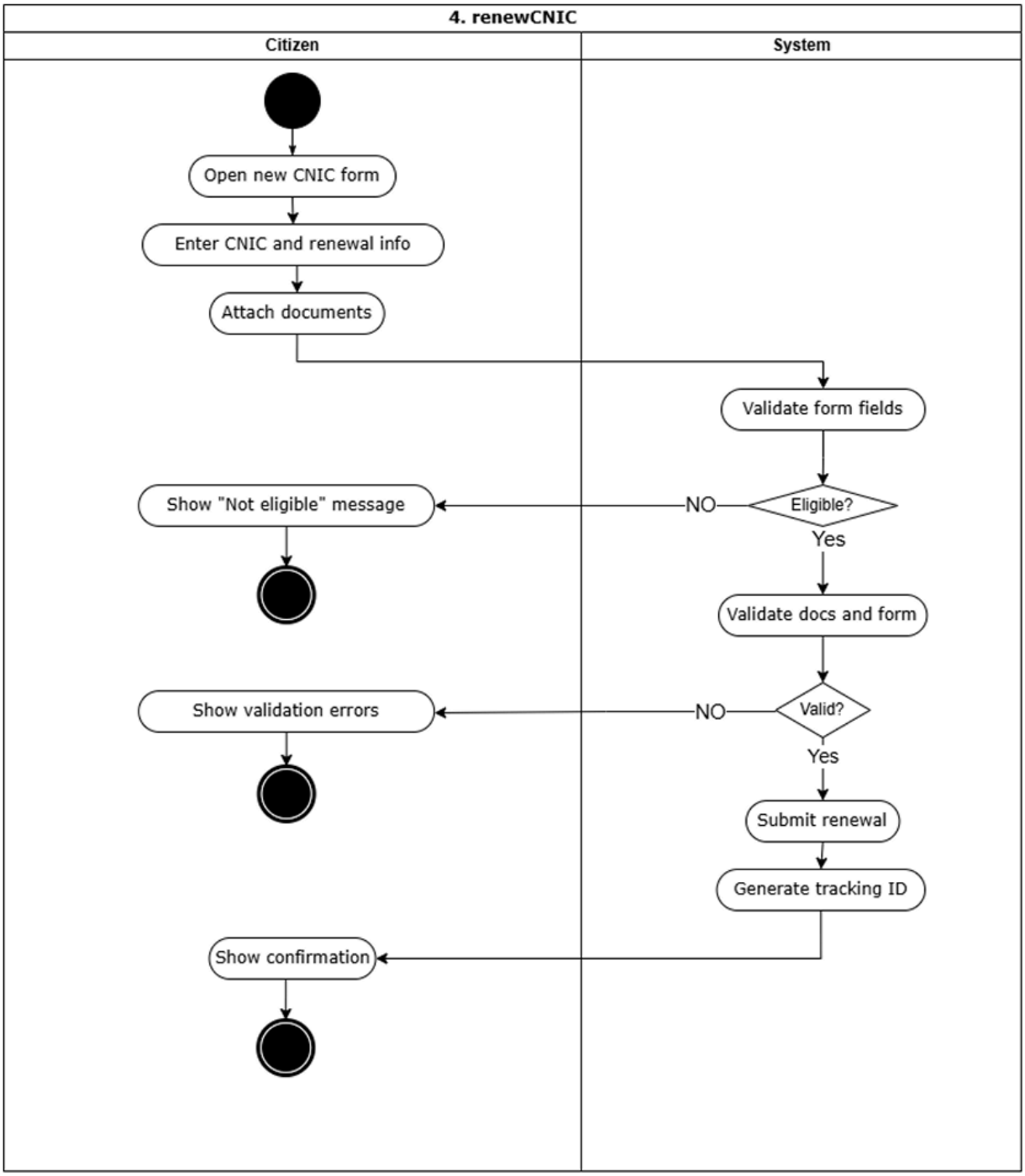
Submitted By:

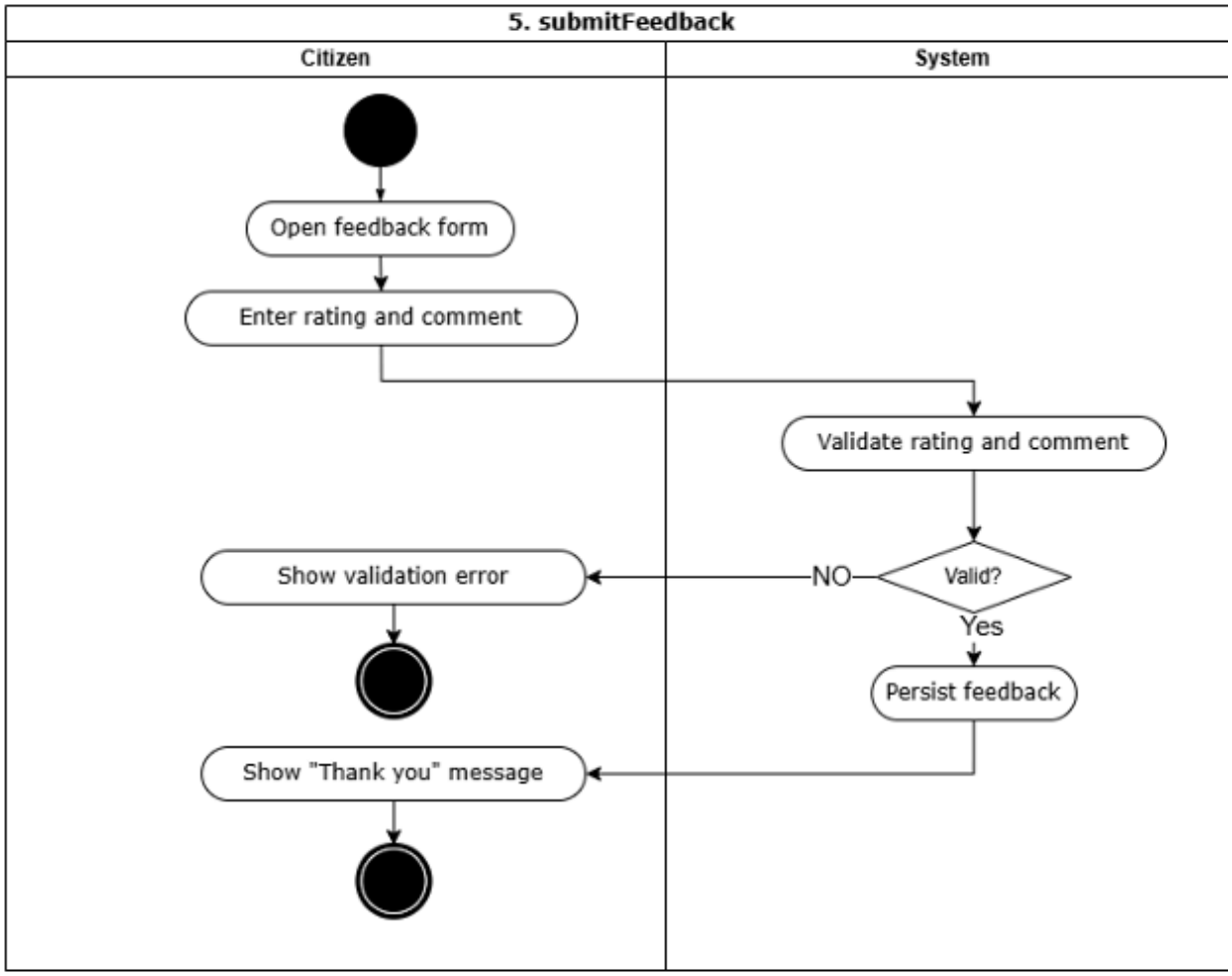
55766	Sufyan Ahmed Mughal
55859	Haseeb Ur Rehman

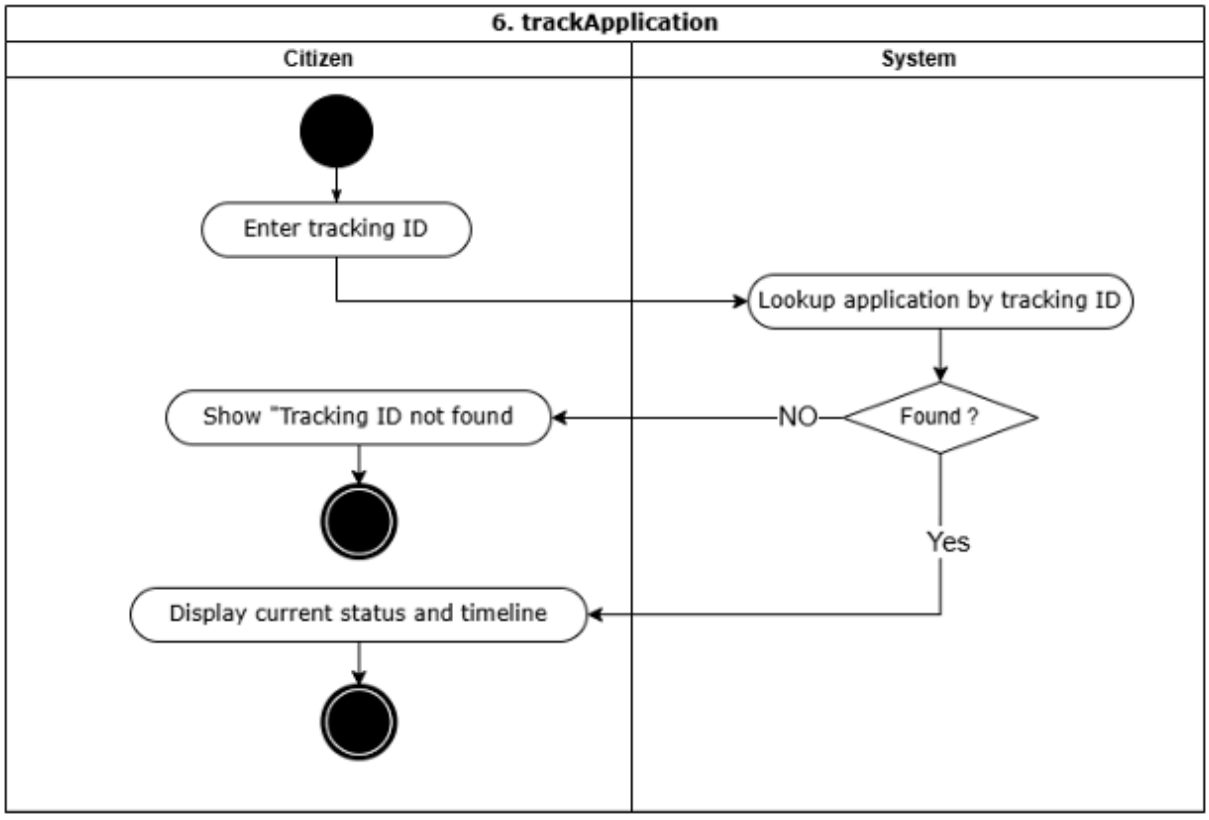

1. Login
User
System
Enter Credetials
Recieve Credentials
Check if User Exists
User Exist?
No
Yes
Show "User not Found"
Verify Password
Password Correct?
Yes
Login & Show "Login Successful"
No
Show "Incorrect password"

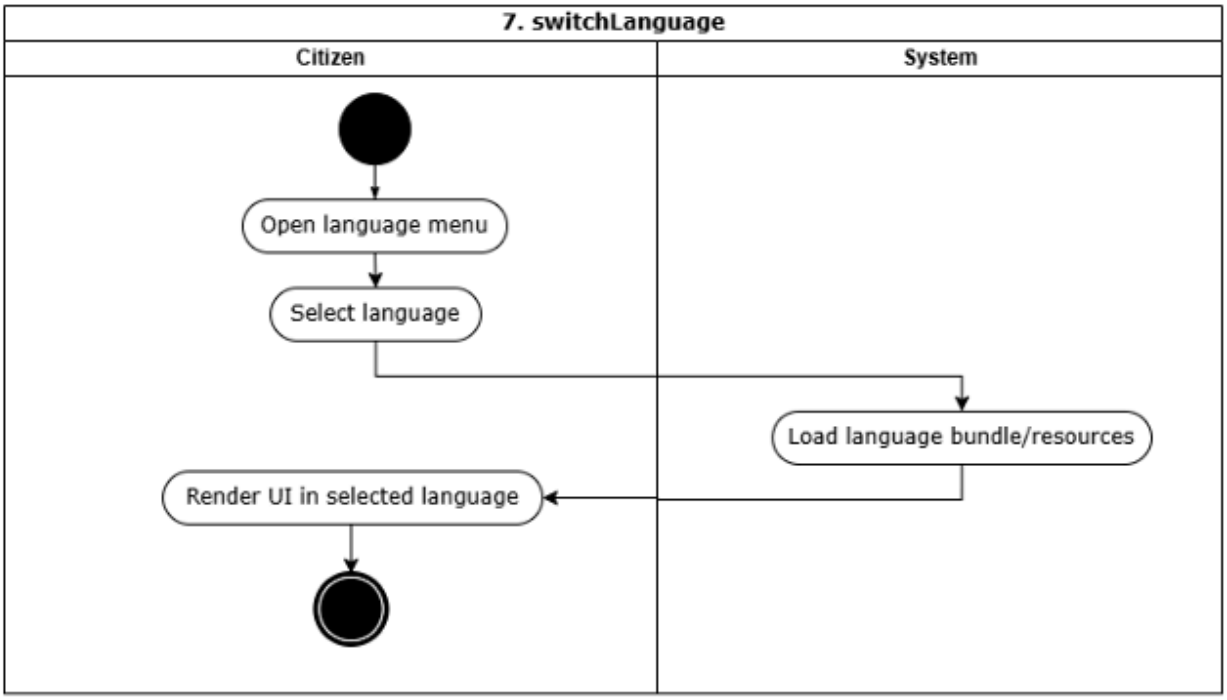

2. Logout
User
System
Click Logout
Receive logout request
Terminate session resources
Show "Logged out" confirmation

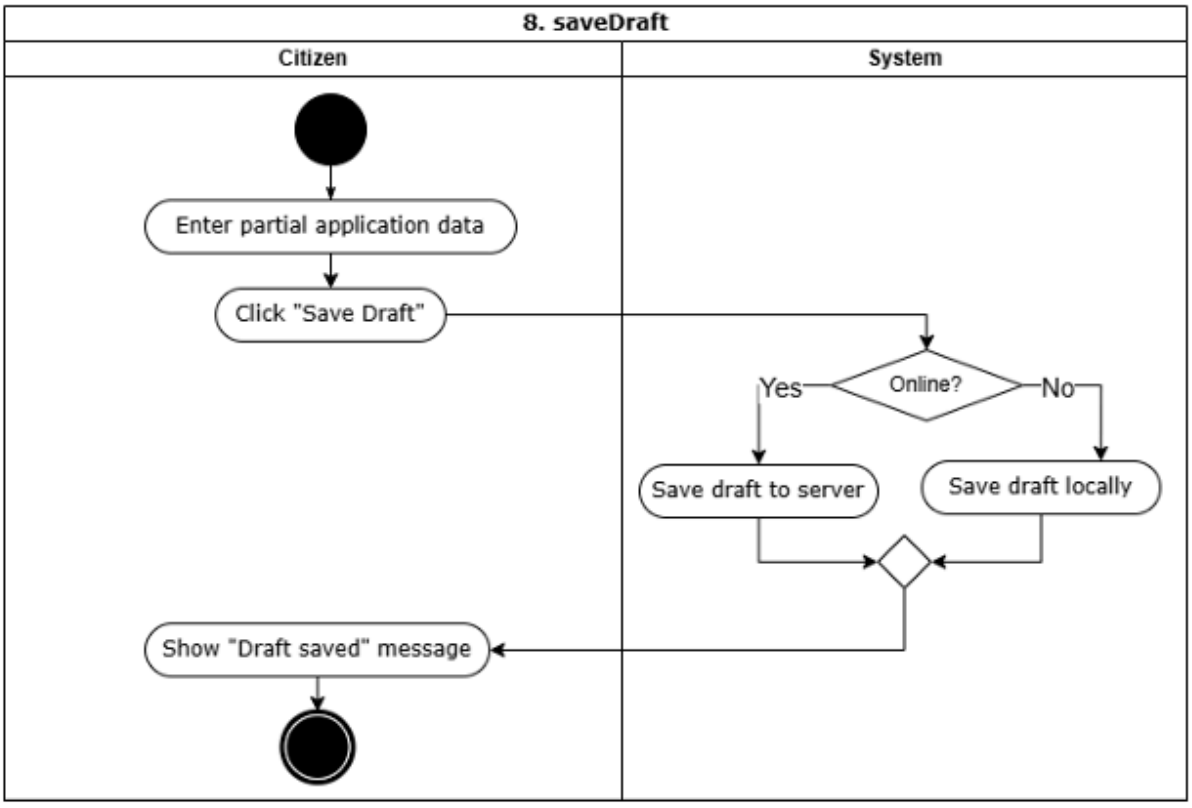

3. applyNewCNIC
Citizen
System
Open new CNIC form
Fill form fields
Upload supporting documents
Receive form + documents
Validate form fields
Validation OK?
NO
Show validation errors
Save application as Submitted
Generate tracking ID
Show confirmation + tracking ID

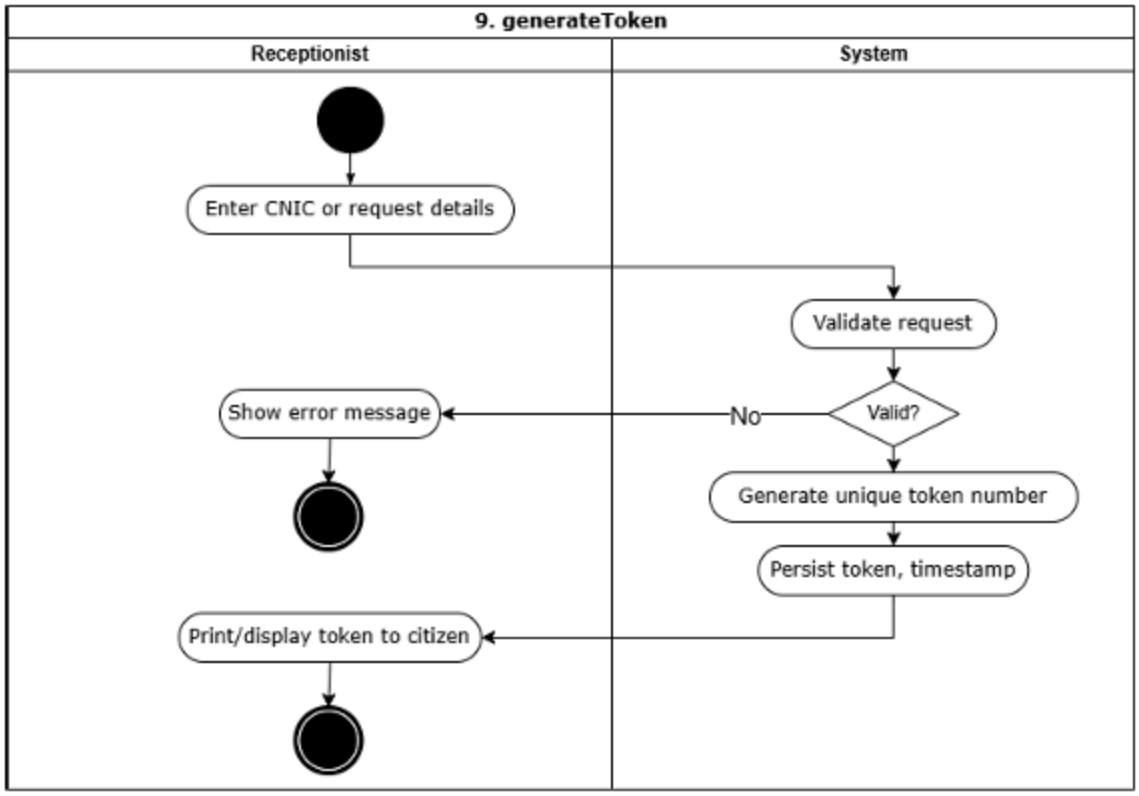

4. renewCNIC
Citizen
System
Open new CNIC form
Enter CNIC and renewal info
Attach documents
Validate form fields
Eligible?
NO
Show "Not eligible" message
Yes
Validate docs and form
Valid?
NO
Show validation errors
Yes
Submit renewal
Generate tracking ID
Show confirmation

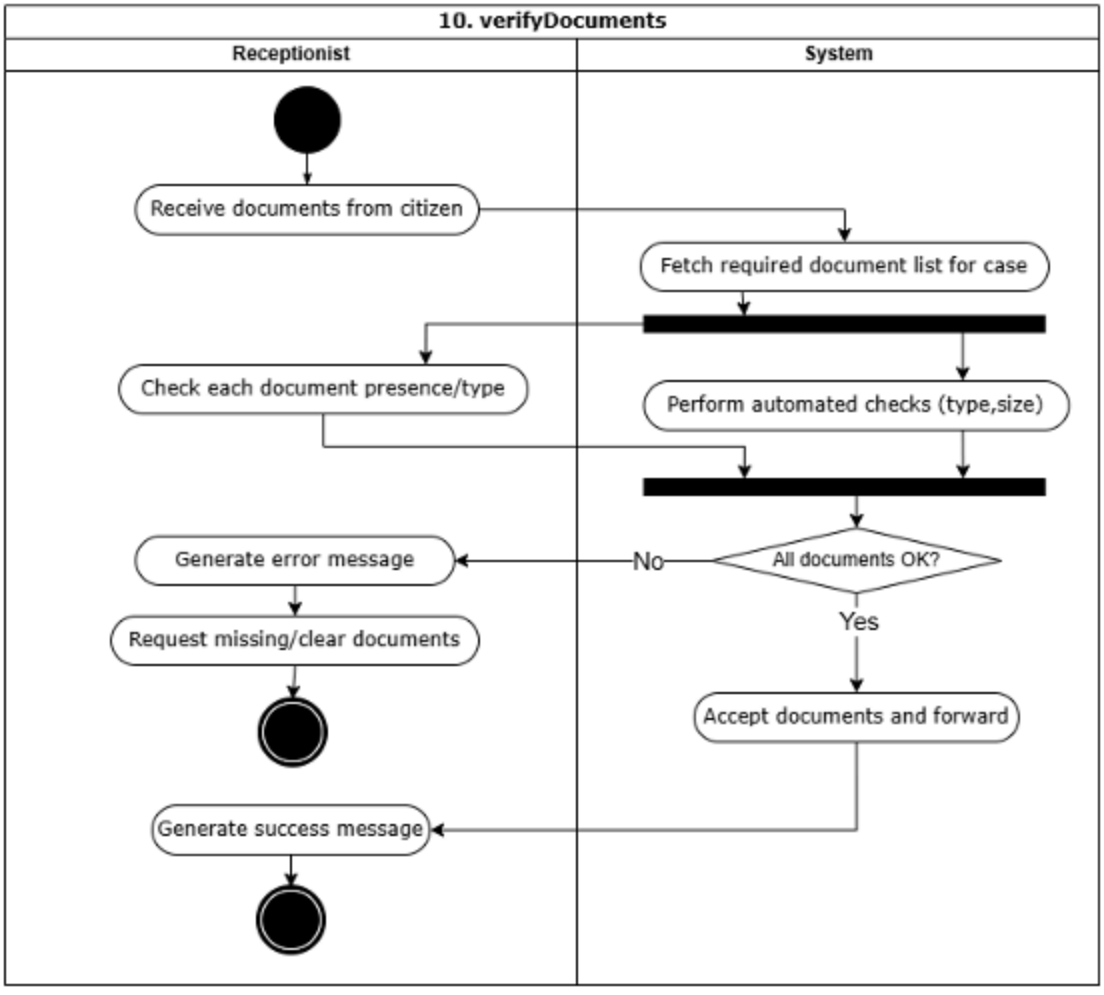

5. submitFeedback
Citizen
System
Open feedback form
Enter rating and comment
Validate rating and comment
Show validation error
NO
Valid?
Yes
Persist feedback
Show "Thank you" message

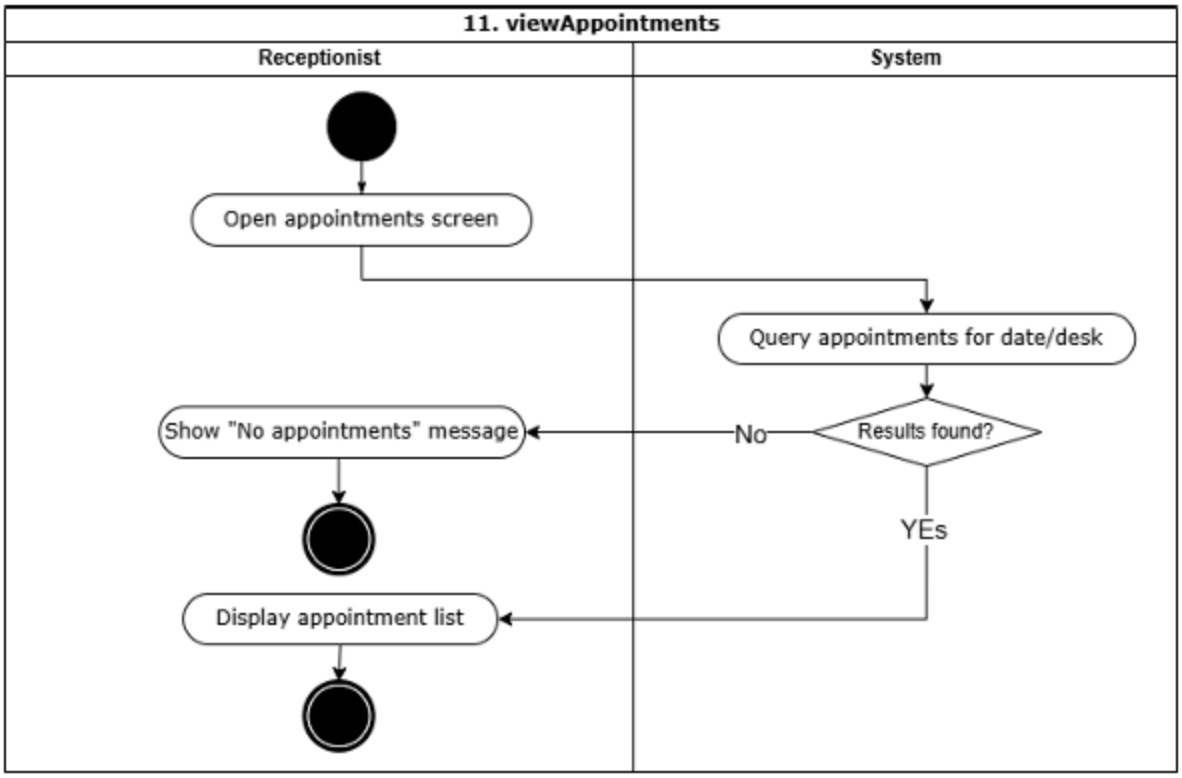

6. trackApplication
Citizen
System
Enter tracking ID
Lookup application by tracking ID
Show "Tracking ID not found
NO
Found ?
Yes
Display current status and timeline

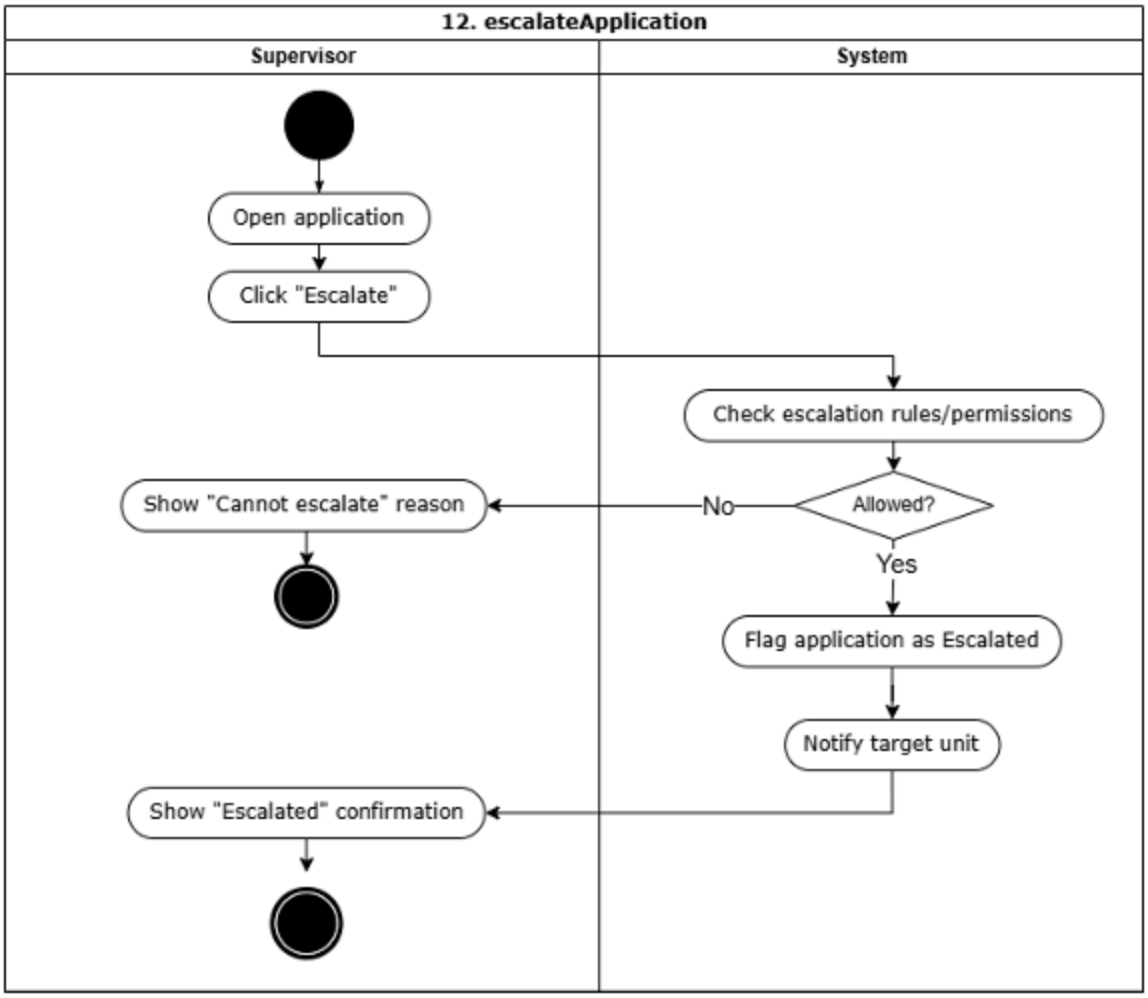

7. switchLanguage
Citizen
System
Open language menu
Select language
Load language bundle/resources
Render UI in selected language


8. saveDraft
Citizen
System
Enter partial application data
Click "Save Draft"
Online?
Yes
No
Save draft to server
Save draft locally
Show "Draft saved" message

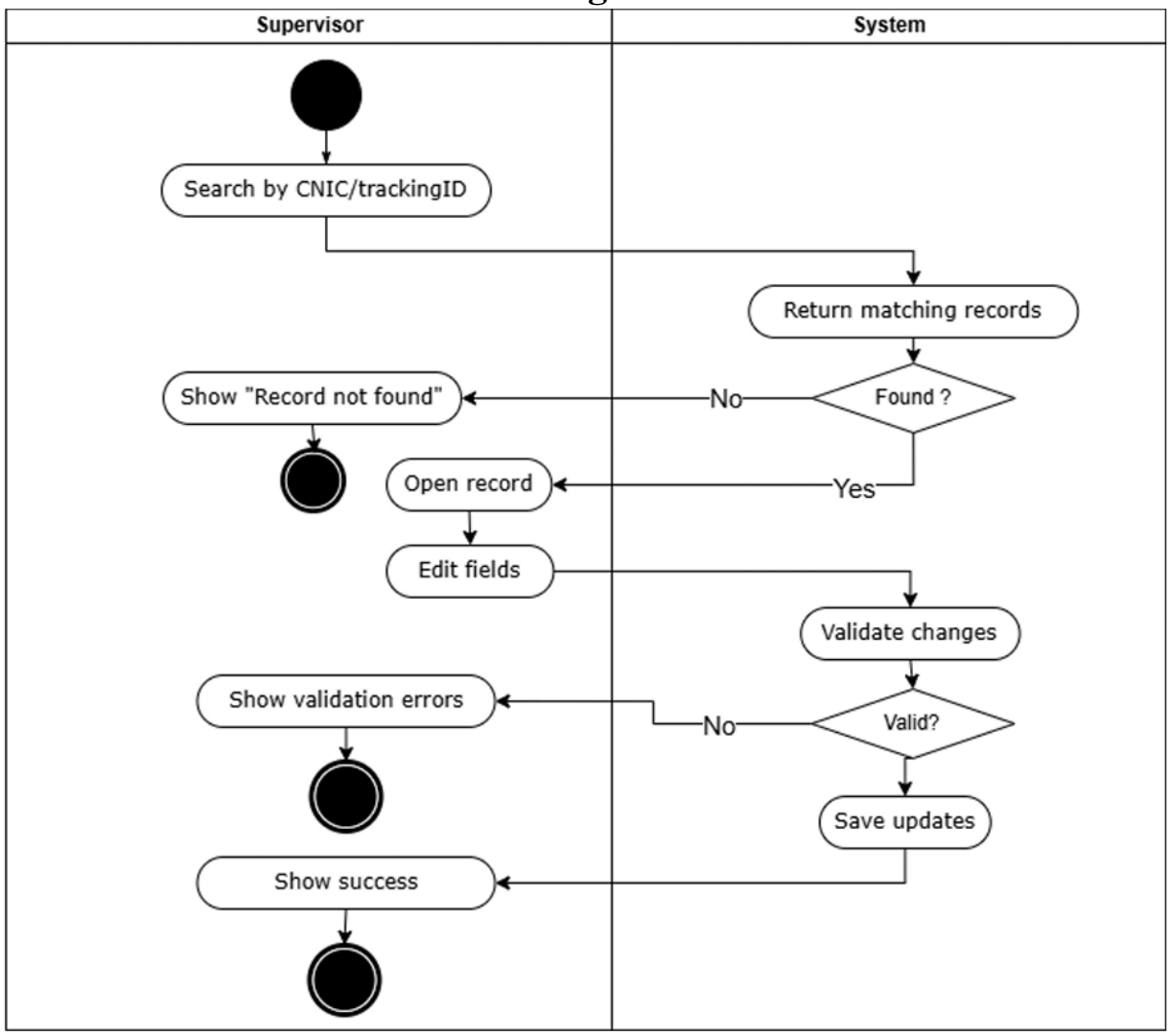

9. generateToken
Receptionist
System
Enter CNIC or request details
Validate request
Show error message
No
Valid?
Generate unique token number
Persist token, timestamp
Print/display token to citizen


10. verifyDocuments
Receptionist
System
Receive documents from citizen
Fetch required document list for case
Check each document presence/type
Perform automated checks (type,size)
Generate error message
No
All documents OK?
Yes
Request missing/clear documents
Accept documents and forward
Generate success message

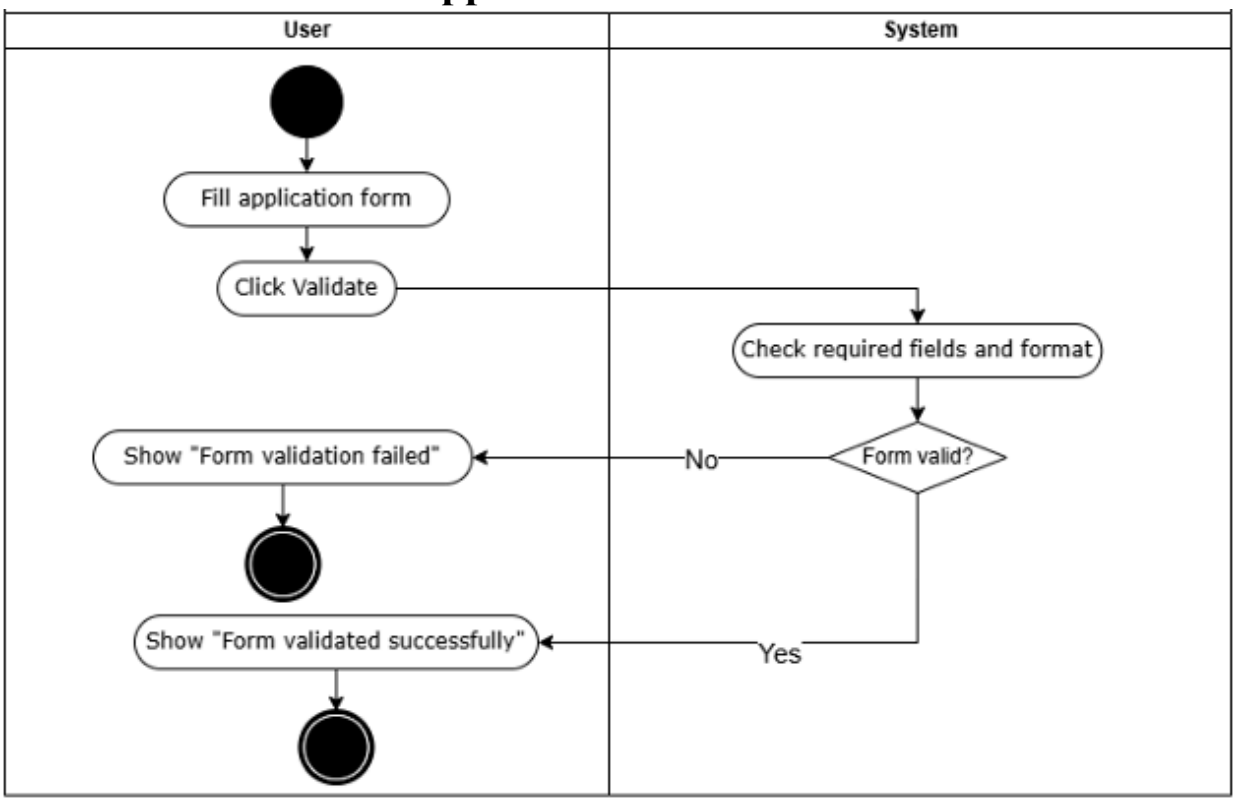

11. viewAppointments
Receptionist
System
Open appointments screen
Query appointments for date/desk
Results found?
No
Show "No appointments" message
YEs
Display appointment list


12. escalateApplication
Supervisor
System
Open application
Click "Escalate"
Check escalation rules/permissions
Allowed?
No
Show "Cannot escalate" reason
Yes
Flag application as Escalated
Notify target unit
Show "Escalated" confirmation

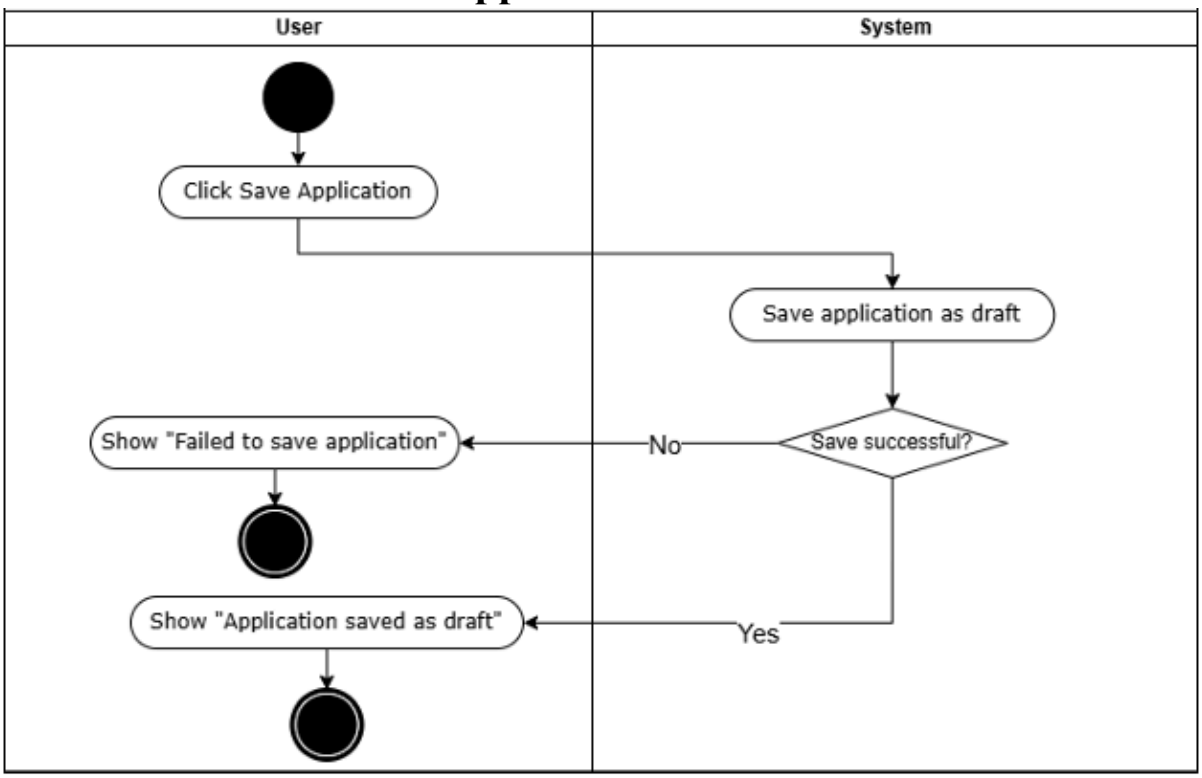
13. manageRecord



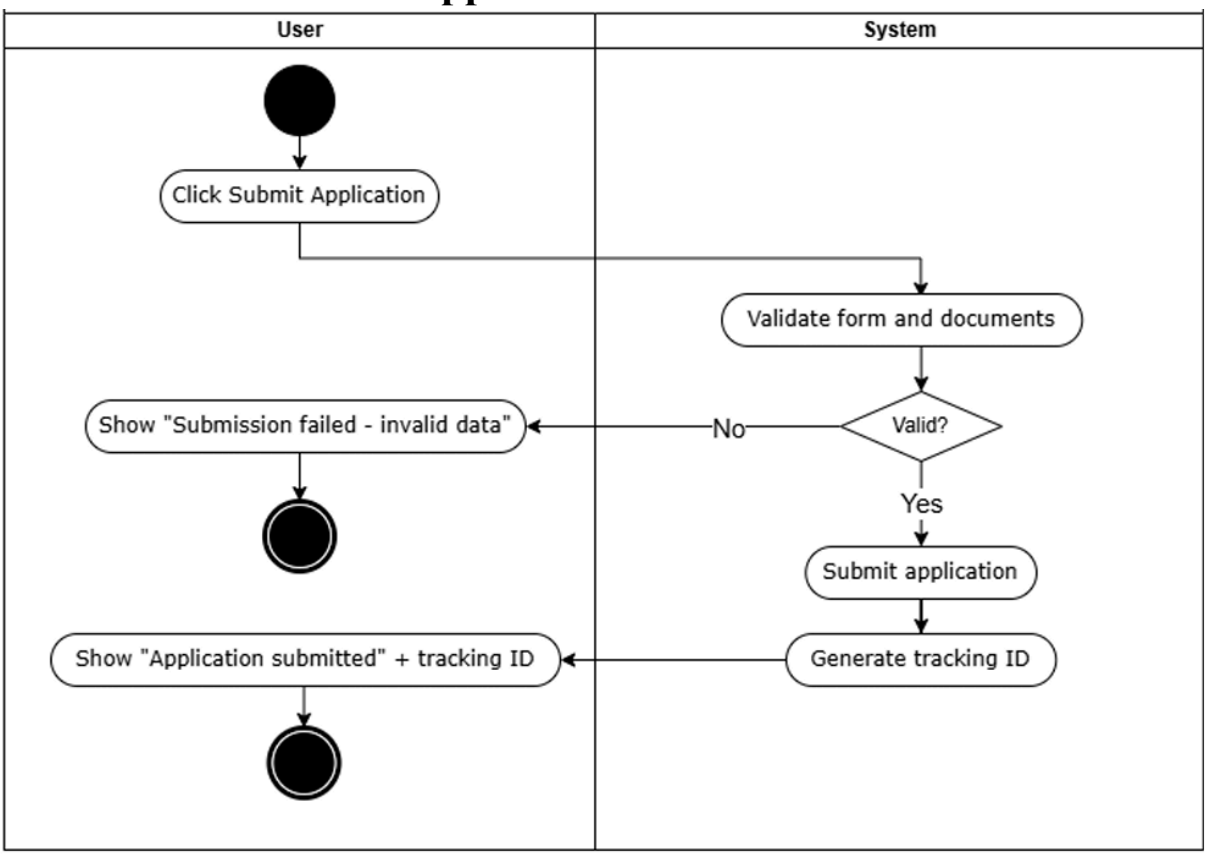
14. ApplicationForm.validate



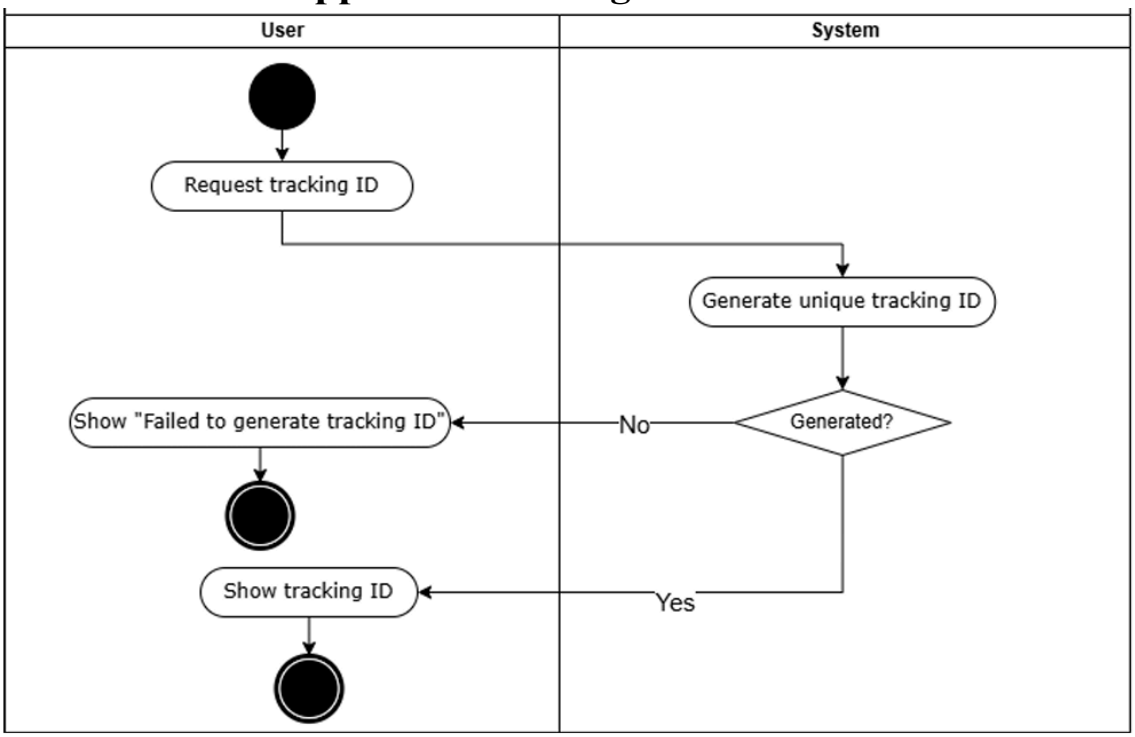
15. ApplicationForm.save

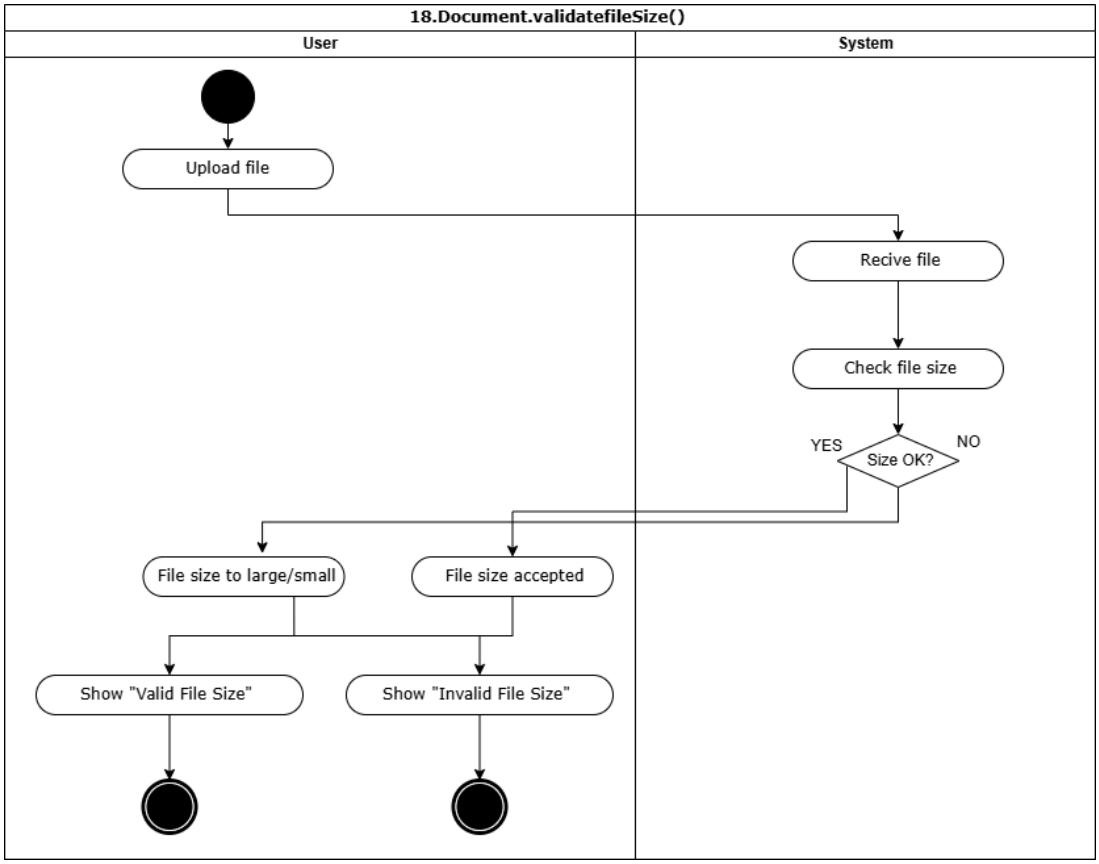


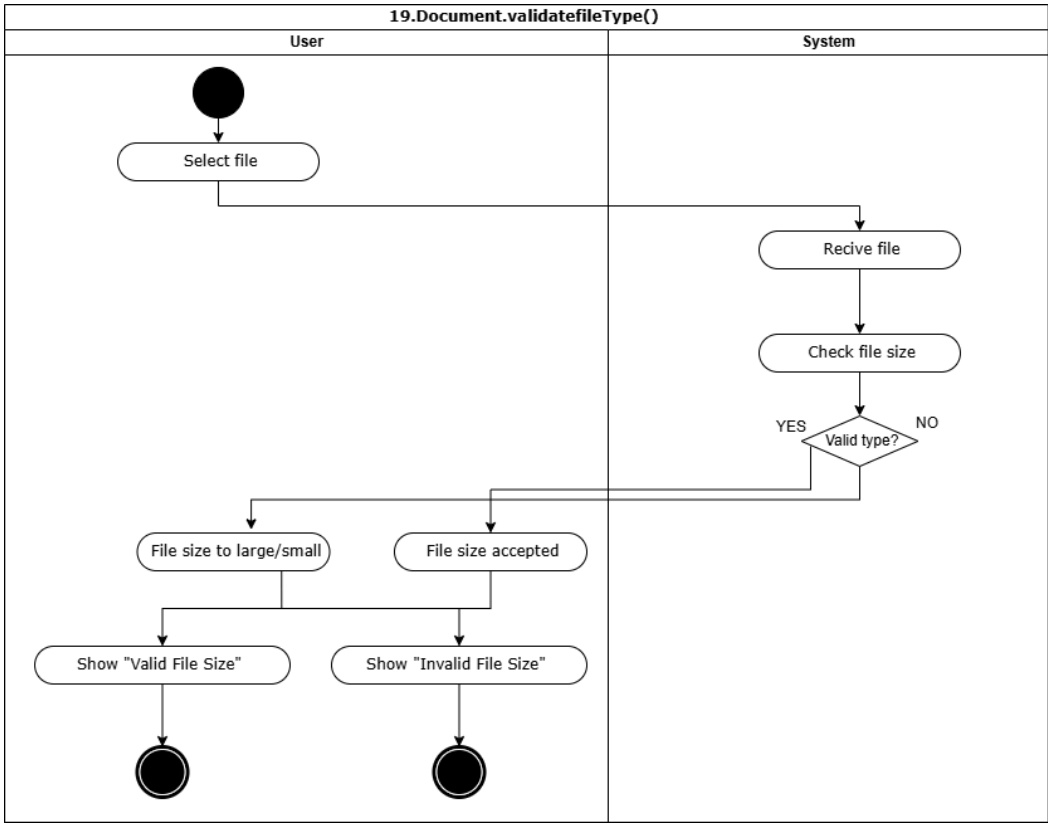
16. ApplicationForm.submit

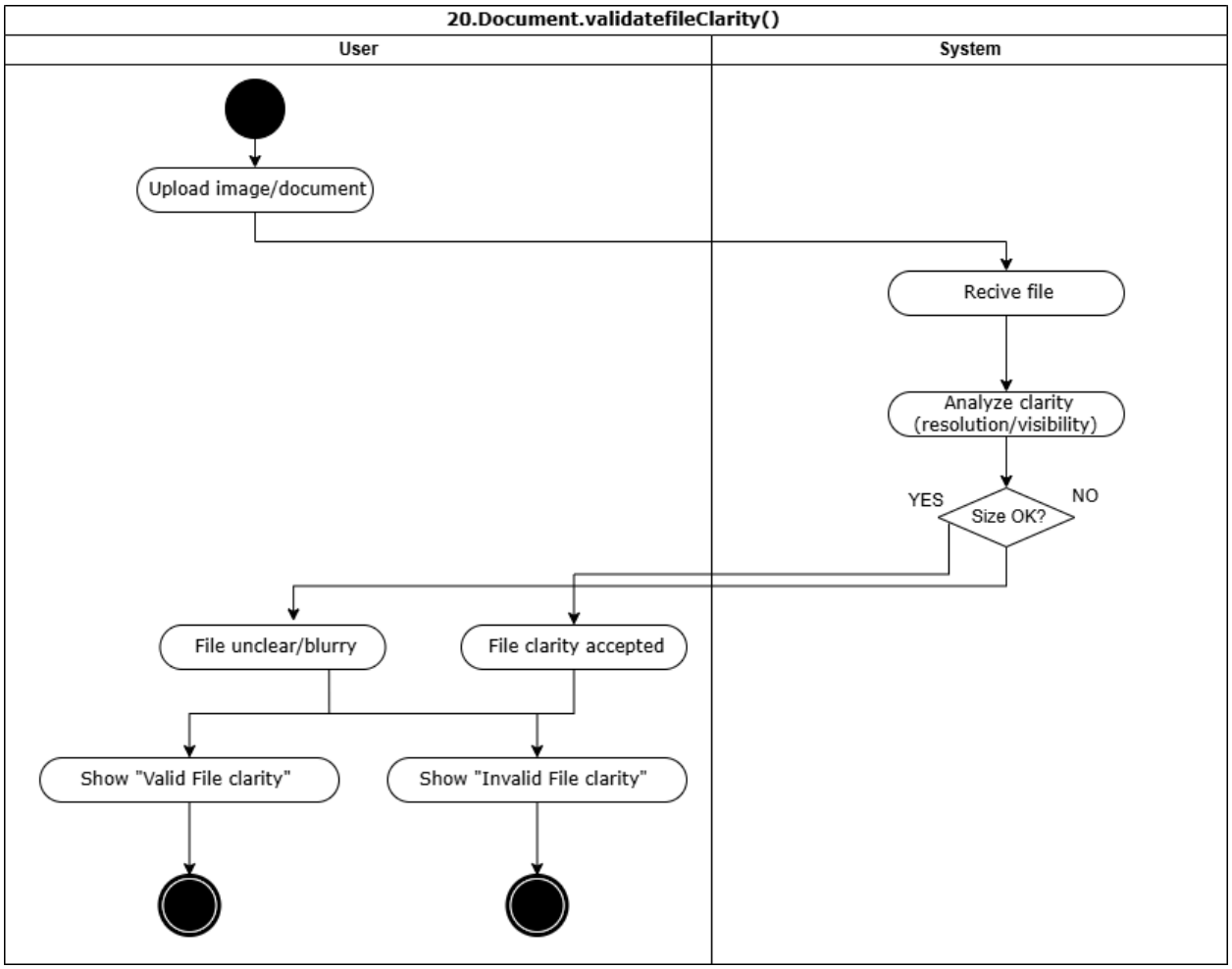


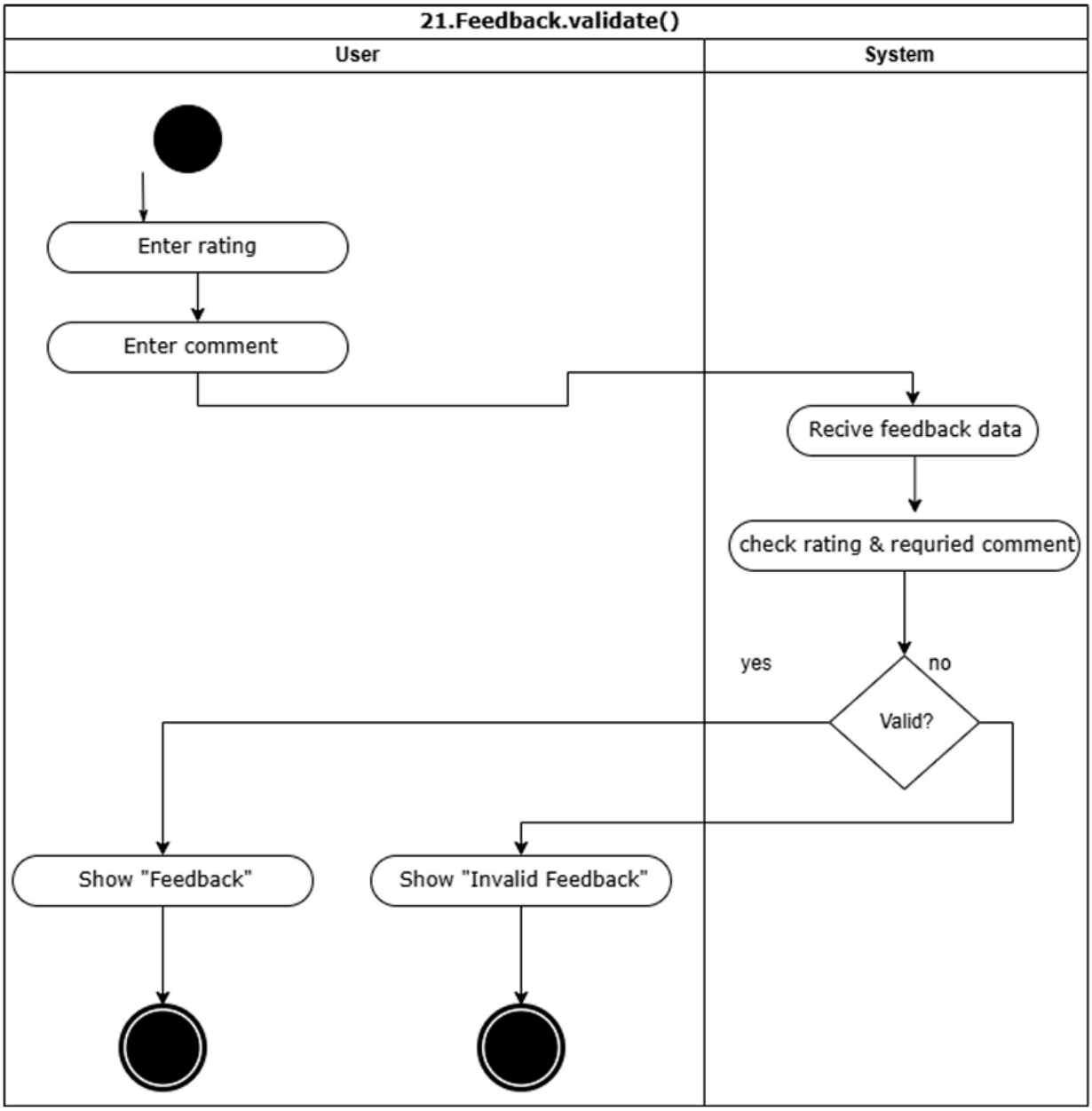
17. ApplicationForm.generateTokenID

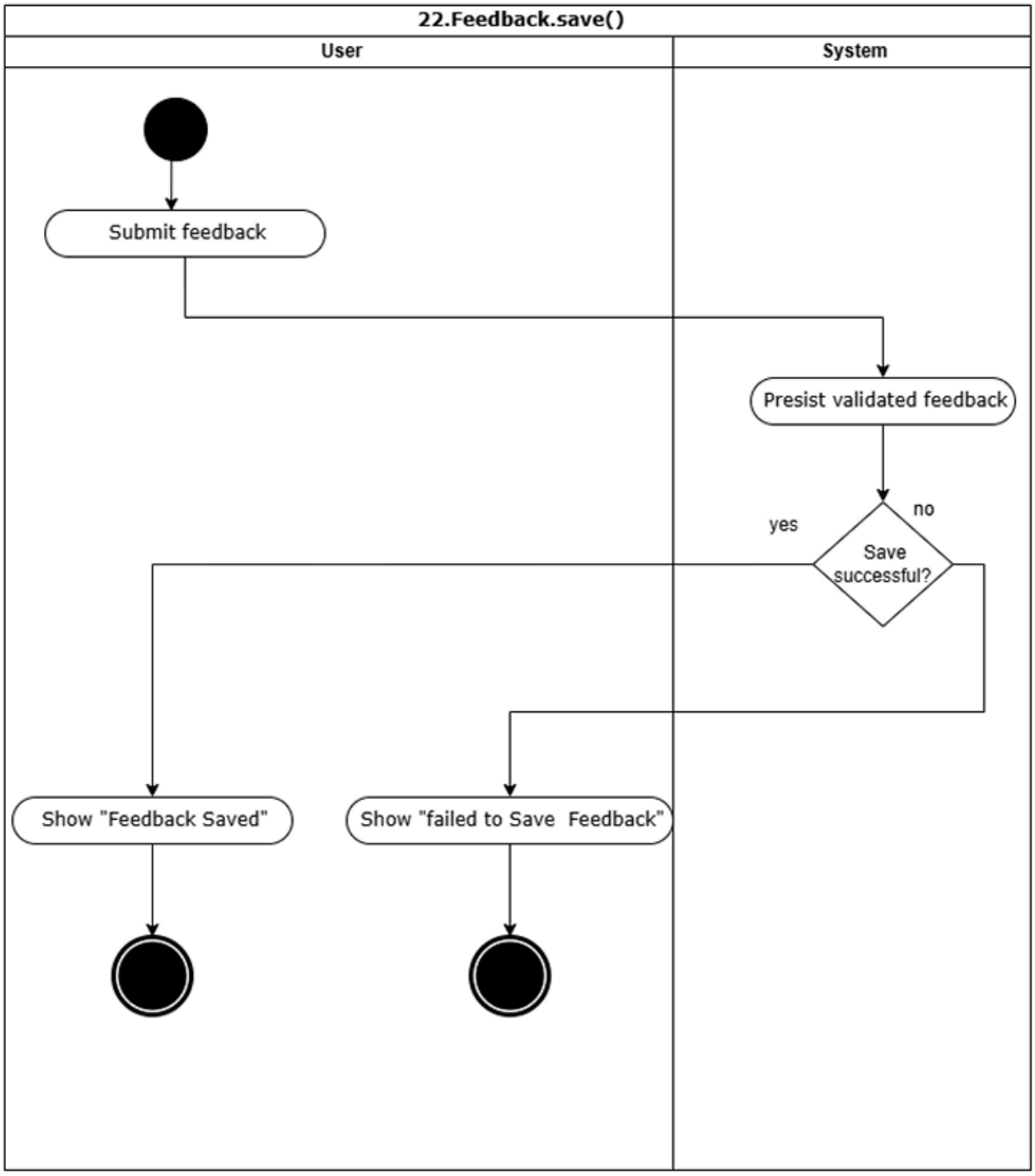


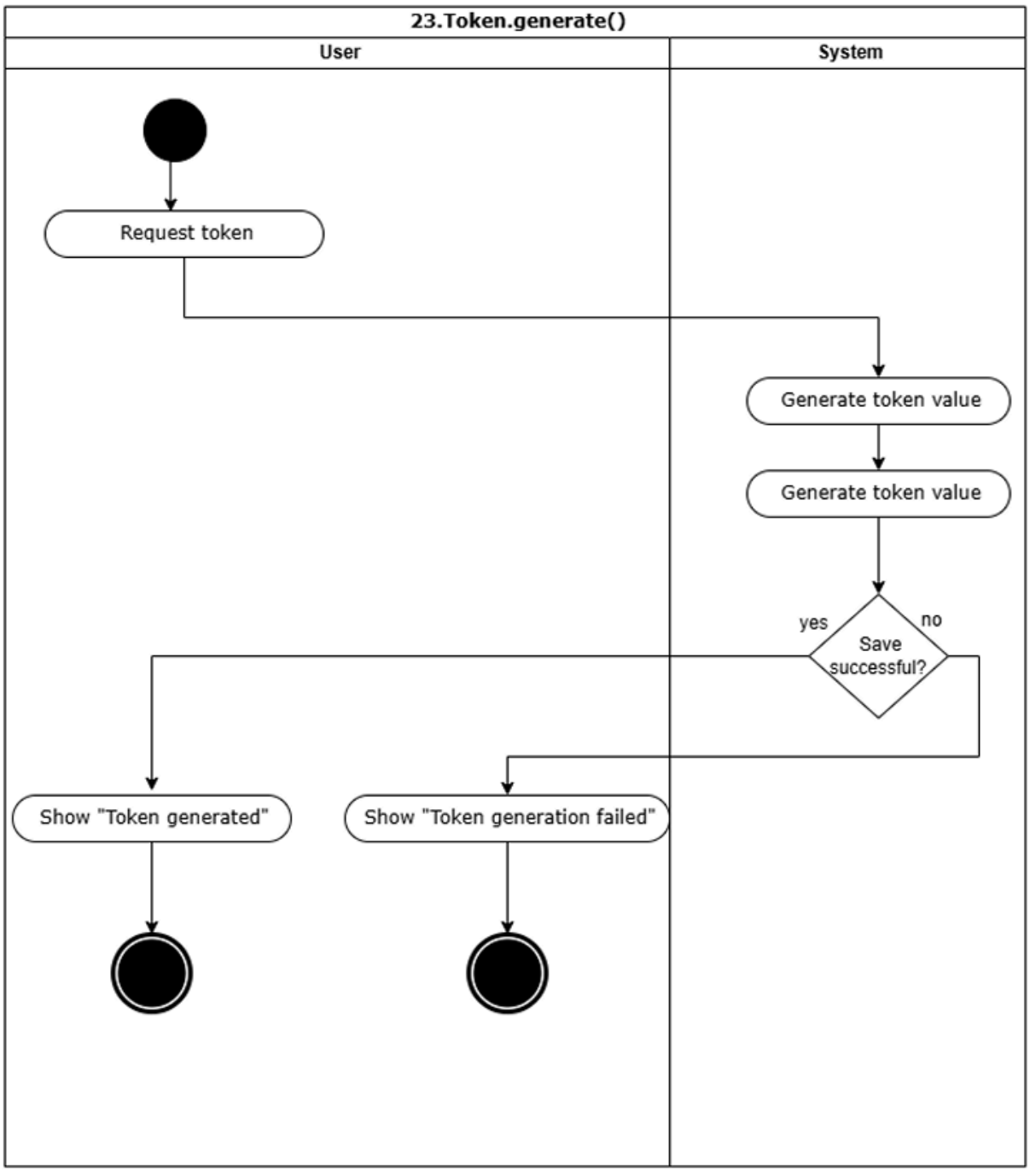

18.Document.validatefileSize()
User
System
Upload file
Recive file
Check file size
YES
Size OK?
NO
File size to large/small
File size accepted
Show "Valid File Size"
Show "Invalid File Size"

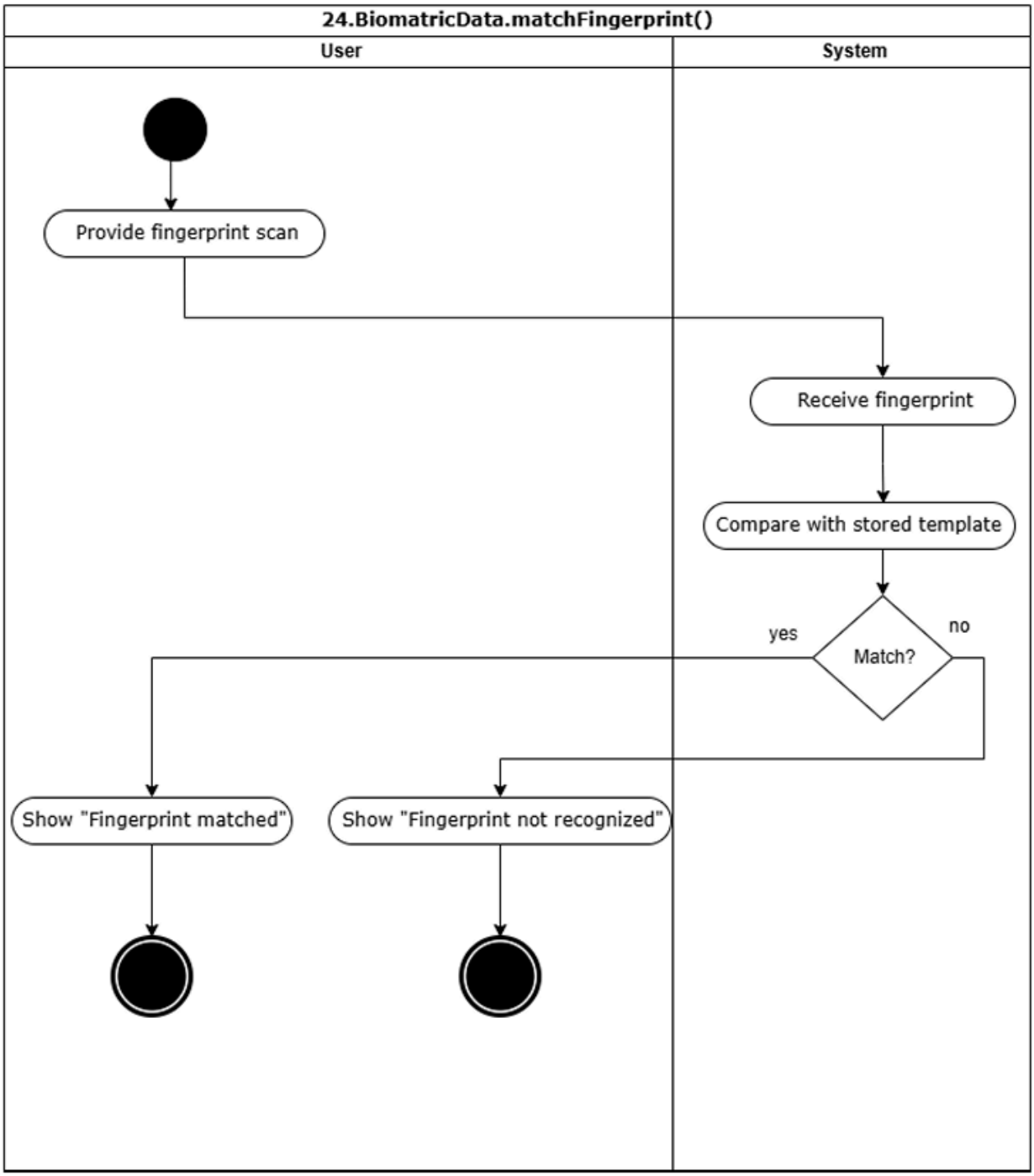

19.Document.validatefileType()
User
System
Select file
Recive file
Check file size
YES
Valid type?
NO
File size to large/small
File size accepted
Show "Valid File Size"
Show "Invalid File Size"

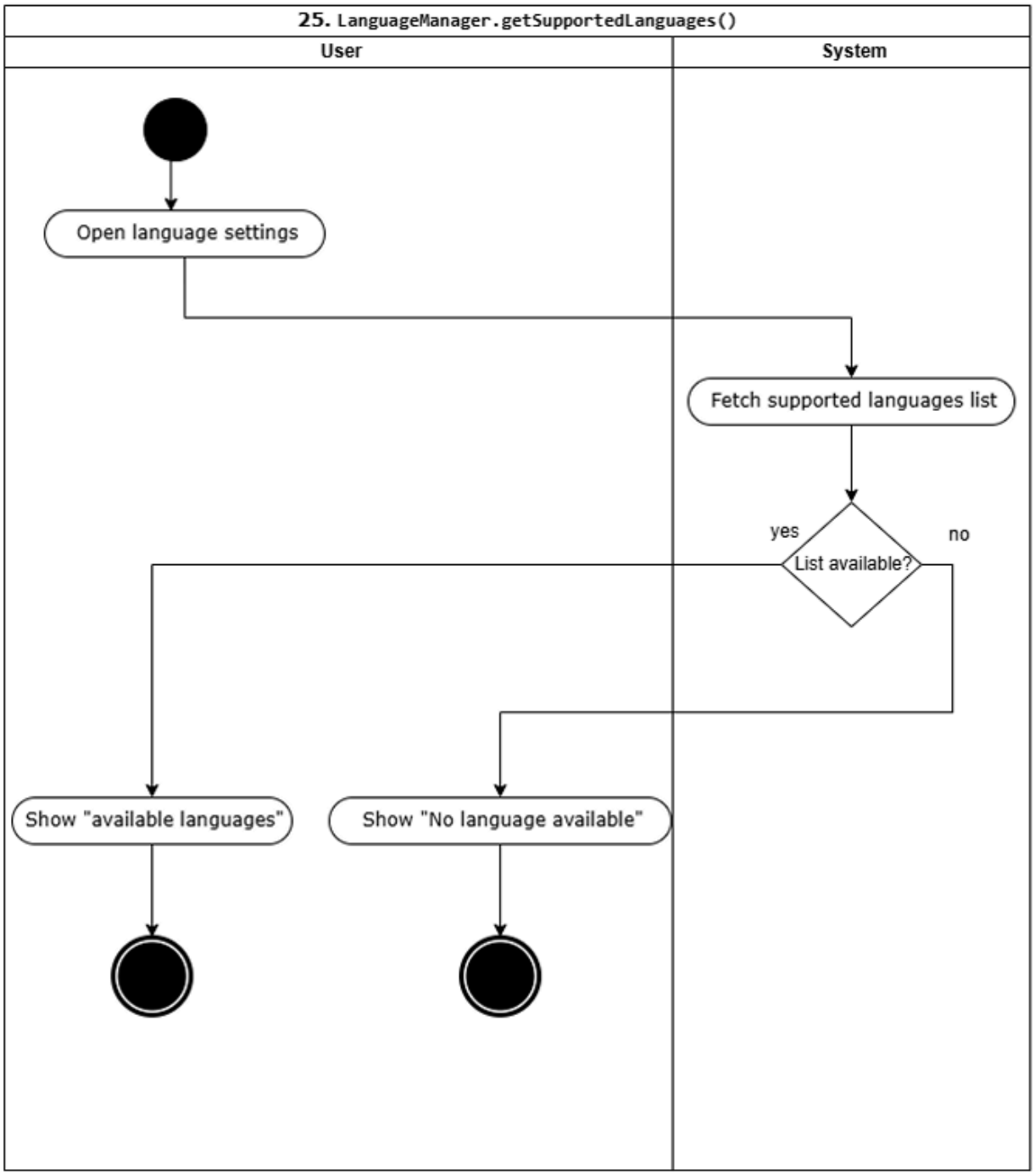

20.Document.validatefileClarity()
User
System
Upload image/document
Recive file
Analyze clarity
(resolution/visibility)
YES
Size OK?
NO
File unclear/blurry
File clarity accepted
Show "Valid File clarity"
Show "Invalid File clarity"


21.Feedback.validate()
User
System
Enter rating
Enter comment
Recive feedback data
check rating & requried comment
yes
no
Valid?
Show "Feedback"
Show "Invalid Feedback"

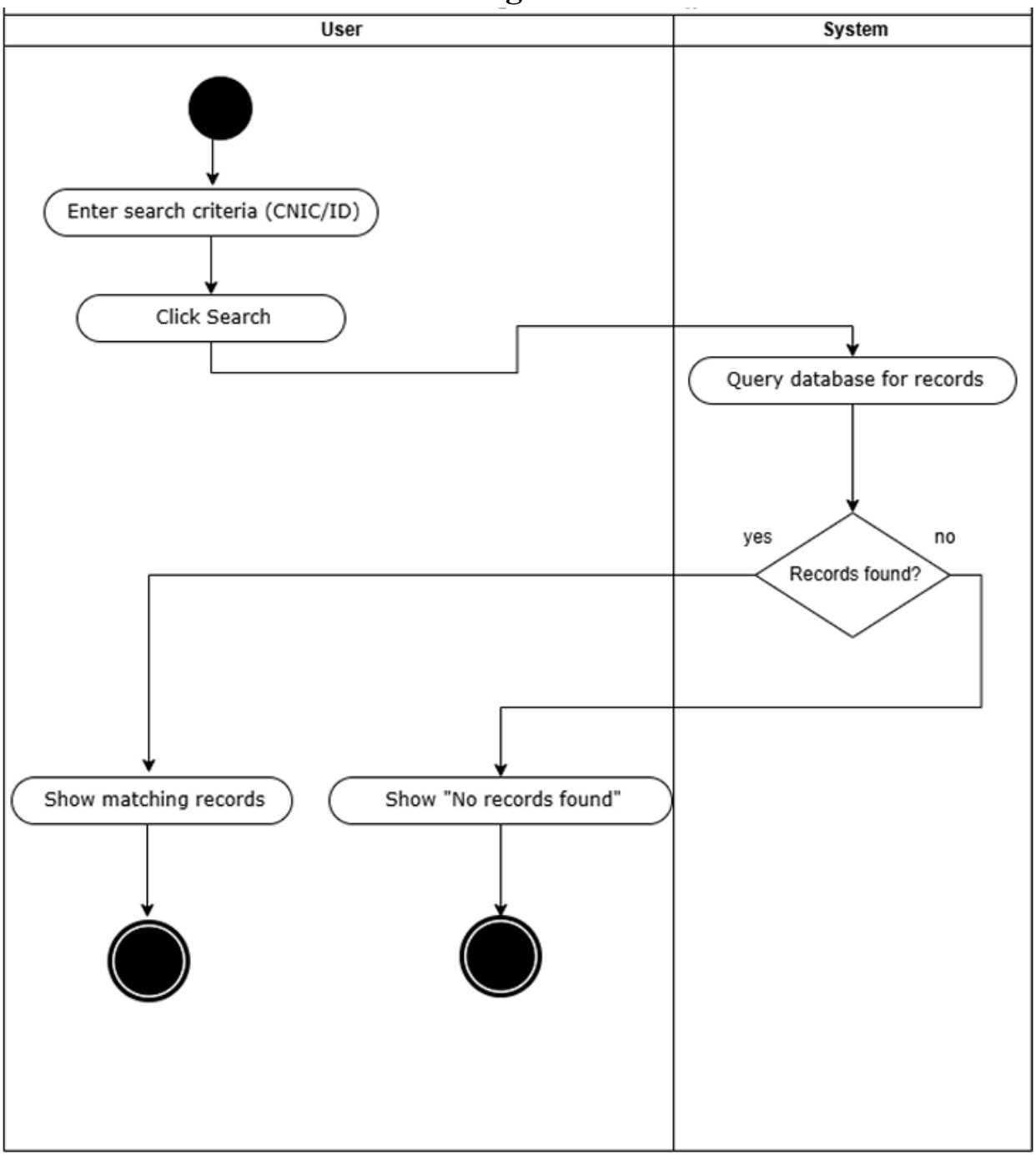

22.Feedback.save()
User
System
Submit feedback
Presist validated feedback
yes
no
Save successful?
Show "Feedback Saved"
Show "failed to Save Feedback"


23.Token.generate()
User
System
Request token
Generate token value
Generate token value
yes
no
Save successful?
Show "Token generated"
Show "Token generation failed"

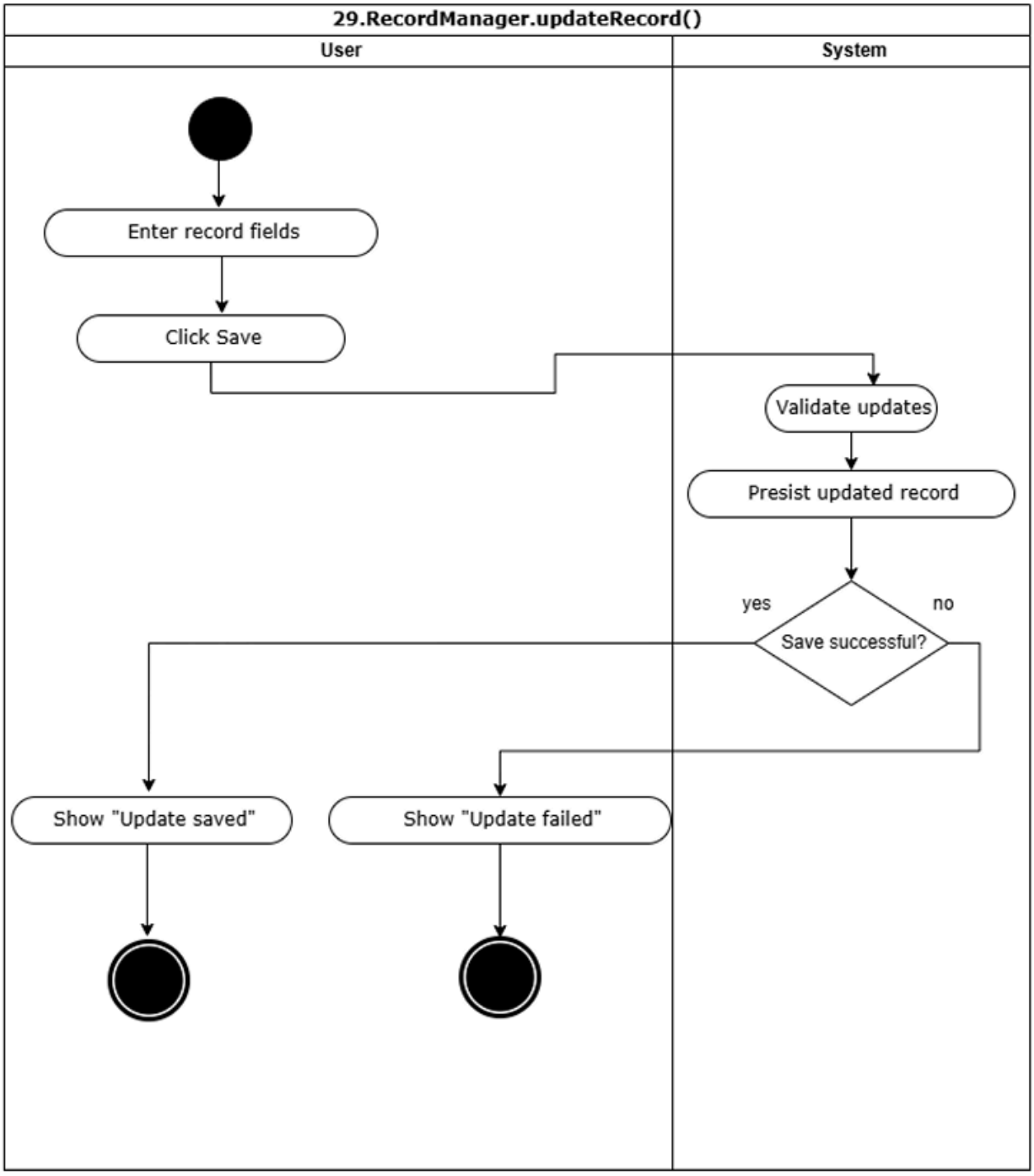

24.BiomatricData.matchFingerprint()
User
System
Provide fingerprint scan
Receive fingerprint
Compare with stored template
Match?
yes
no
Show "Fingerprint matched"
Show "Fingerprint not recognized"


25. LanguageManager.getSupportedLanguages()
User
System
Open language settings
Fetch supported languages list
yes
List available?
no
Show "available languages"
Show "No language available"

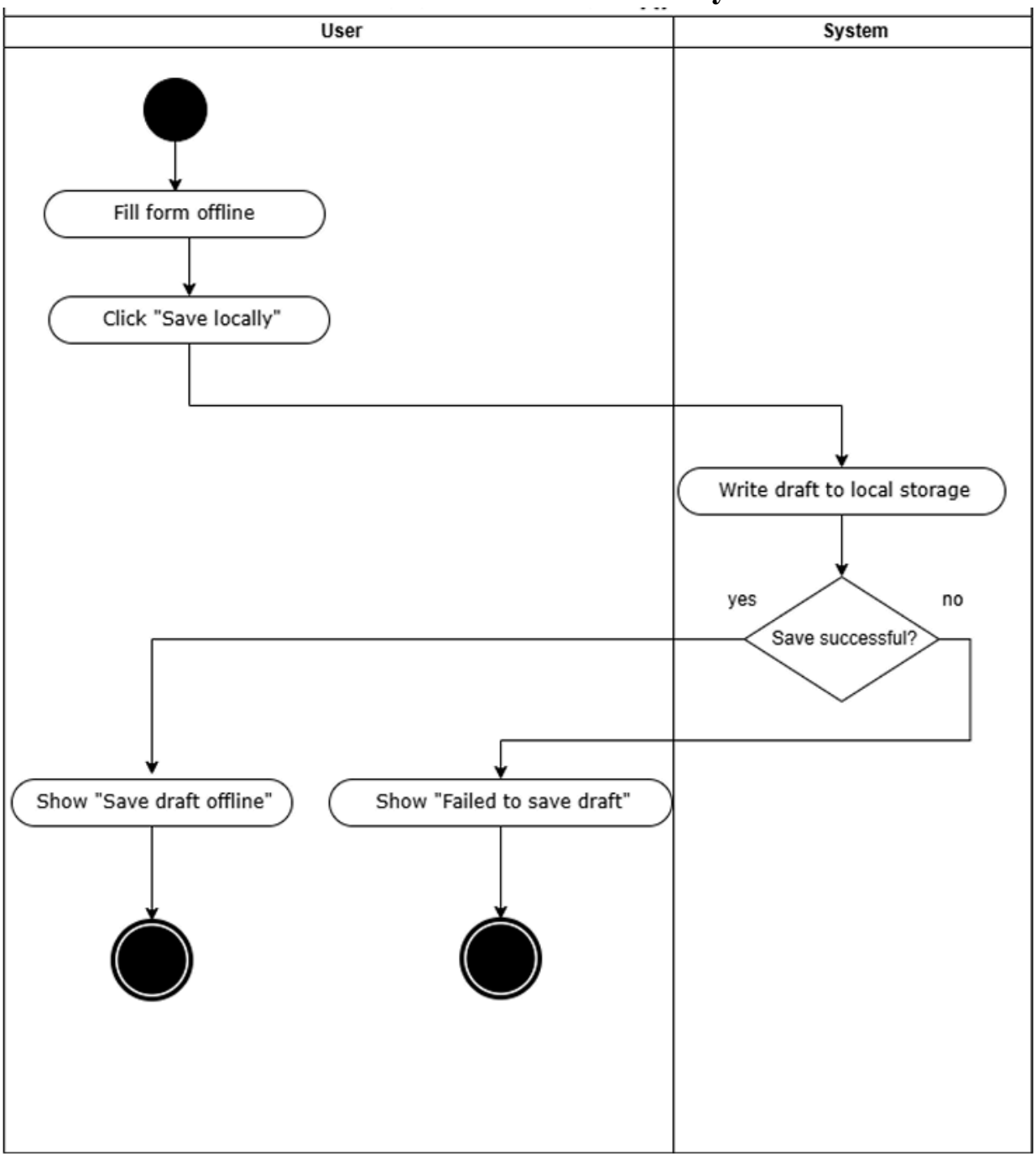
27. RecordManager.searchRecord



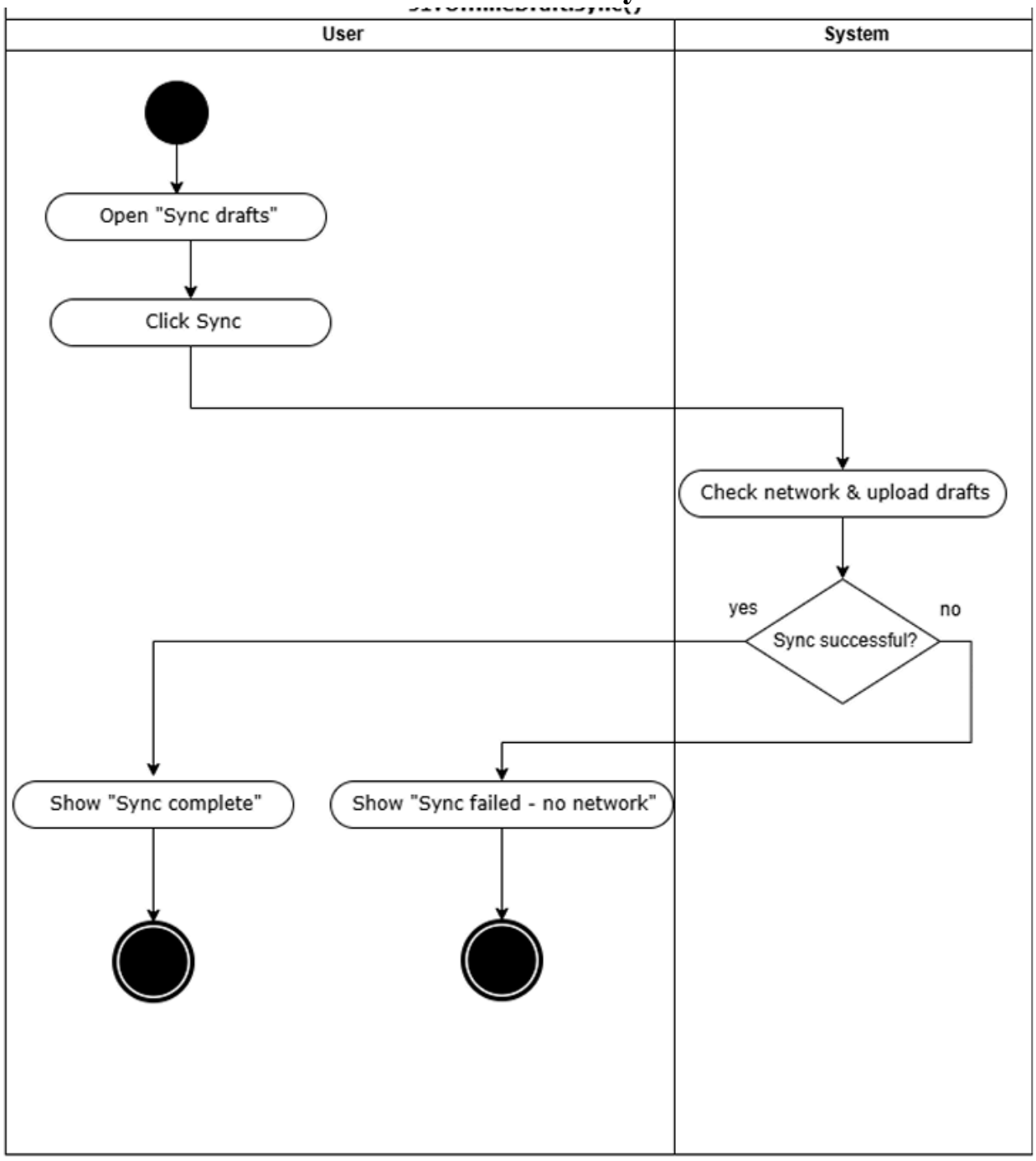
28. ApplicationForm.updateRecord



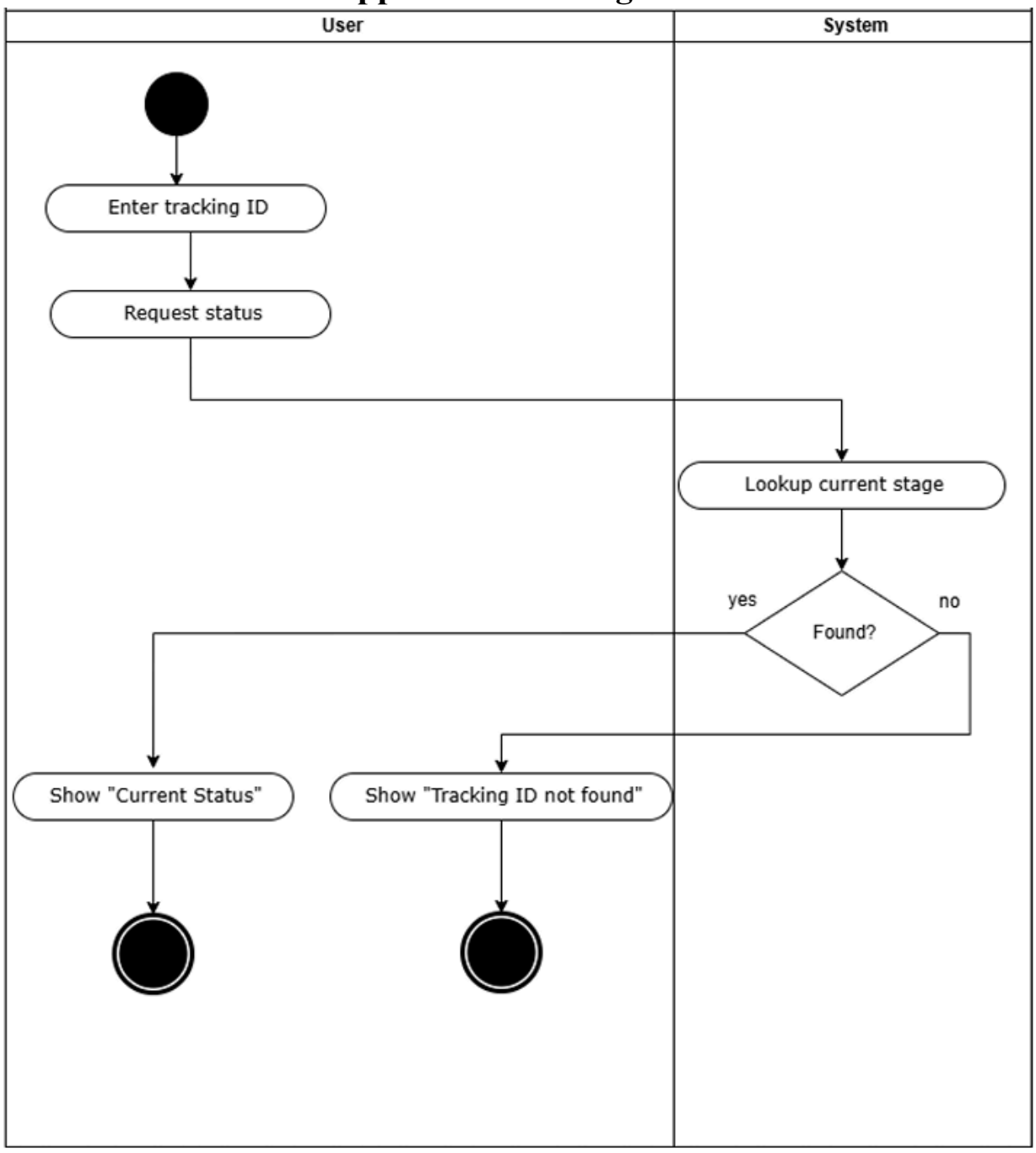
29. OfflineDraft.saveLoaclly



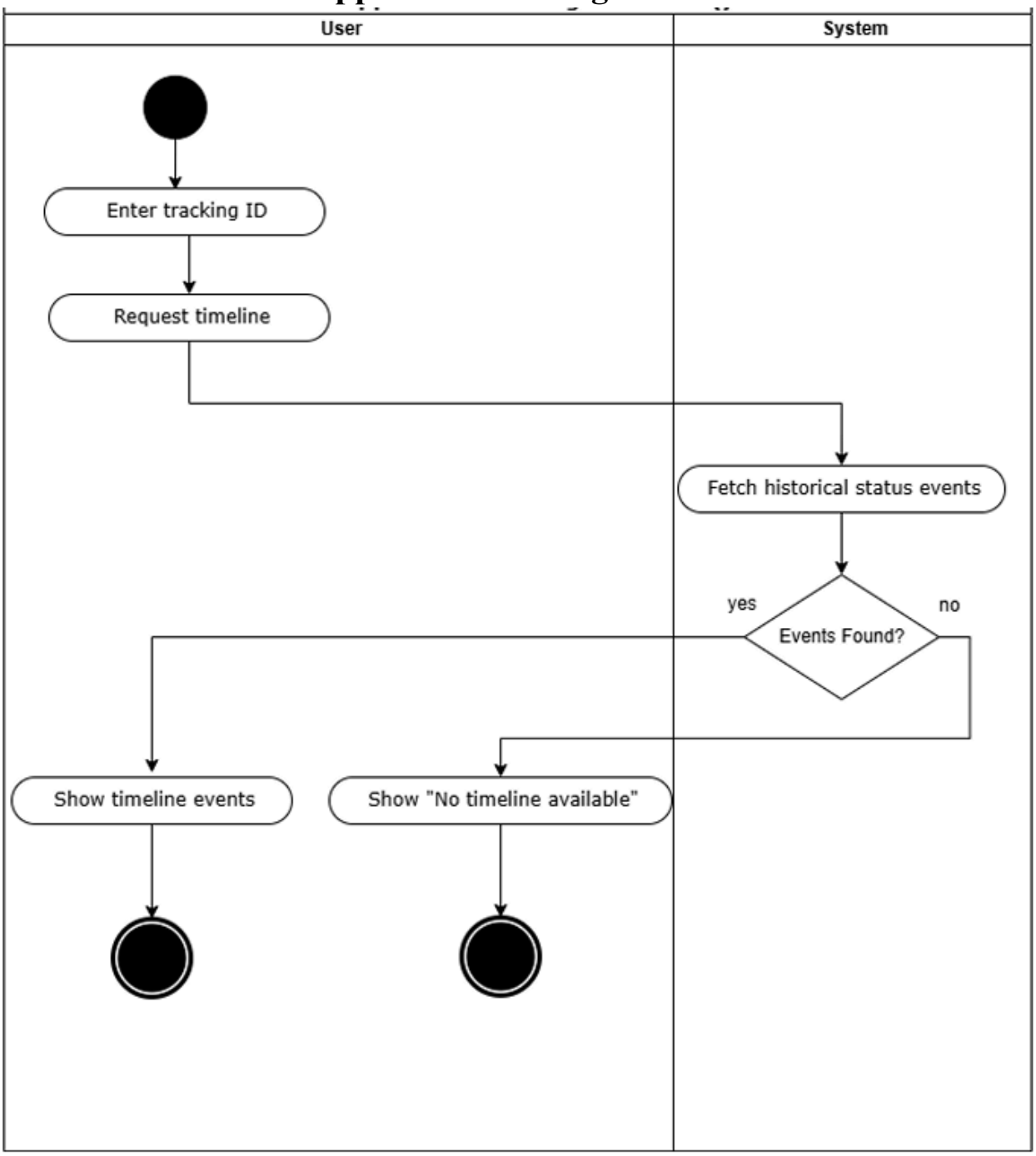
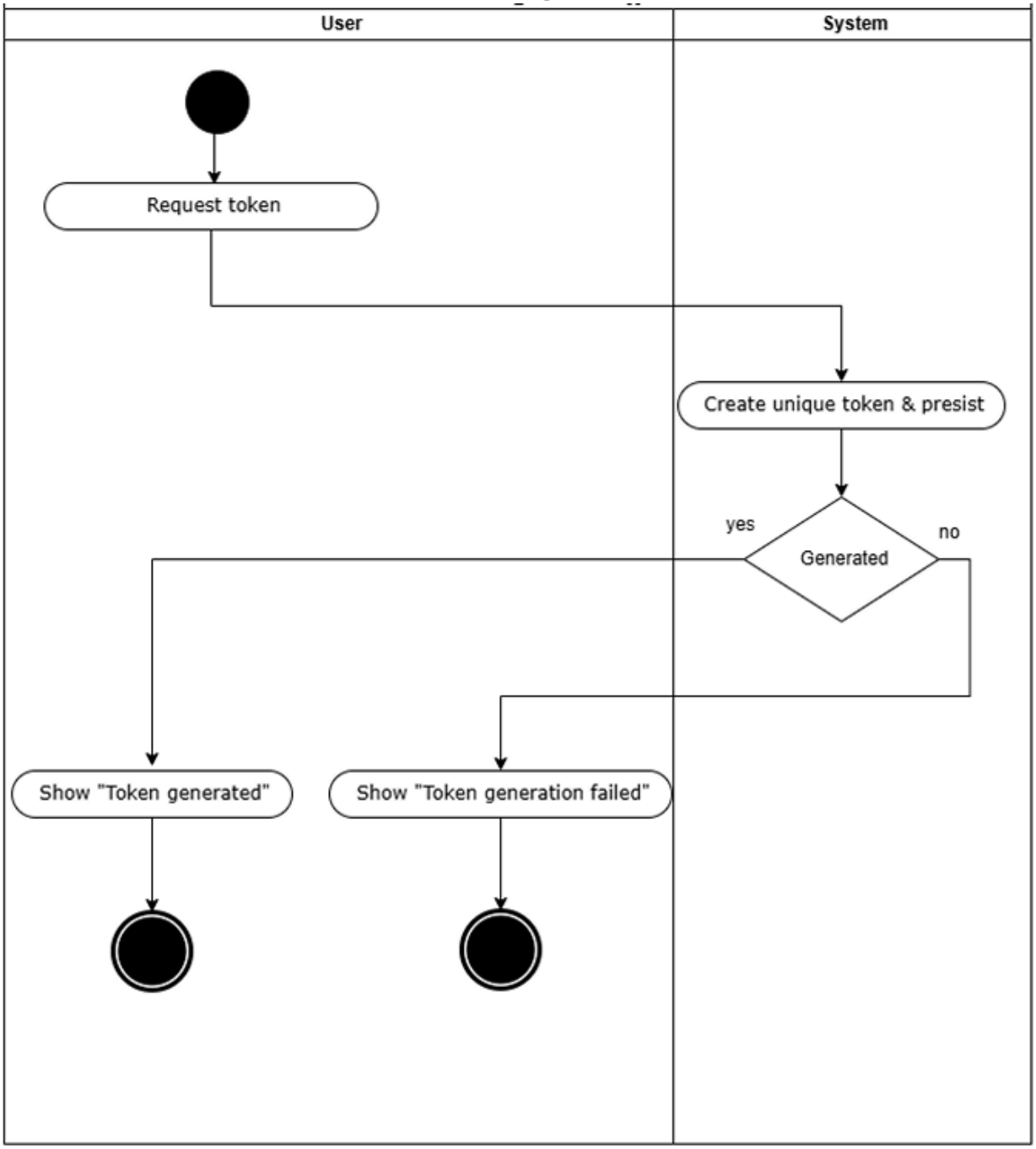
30. OfflineDraft.sync



31. ApplciationStatus.getStatus



32. ApplciationStatus.getTimeline



33. Token.genrate