Functional Requirements

1. The system shall allow the applicant to register and log in.
2. The system shall authenticate users using valid credentials.
3. The system shall display all issued licenses of the applicant.
4. The system shall allow the applicant to select a license.
5. The system shall allow the applicant to view license details.
6. The system shall allow the applicant to download the license.
7. The system shall provide an option to renew an existing license.
8. The system shall allow the applicant to fill the renewal application form.
9. The system shall allow the applicant to upload required documents.
10. The system shall validate uploaded documents.
11. The system shall allow the applicant to pay renewal fees online.
12. The system shall generate payment confirmation.
13. The system shall forward applications to the verifying officer.
14. The system shall allow the officer to approve or reject applications.
15. The system shall notify the applicant about application status.

Non-Functional Requirements

Performance

- The system shall respond quickly to user actions.
- The system shall support multiple users at the same time.
- The system shall process applications efficiently.

Security

- The system shall require user login before accessing services.
- The system shall protect user data from unauthorized access.
- The system shall securely process online payments and documents.
- The system shall restrict access based on user roles (applicant, officer, field officer).
- The system shall record important system activities for security purposes.

Availability

- The system shall be available during normal working hours.
- The system shall be unavailable only during scheduled maintenance.

Reliability

- The system shall maintain accurate data at all times.
- The system shall reliably process payments and approvals.
- The system shall prevent data loss.

Usability

- The system shall be easy to understand and use.
- The system shall display clear error messages.
- The system shall have a simple and consistent interface.

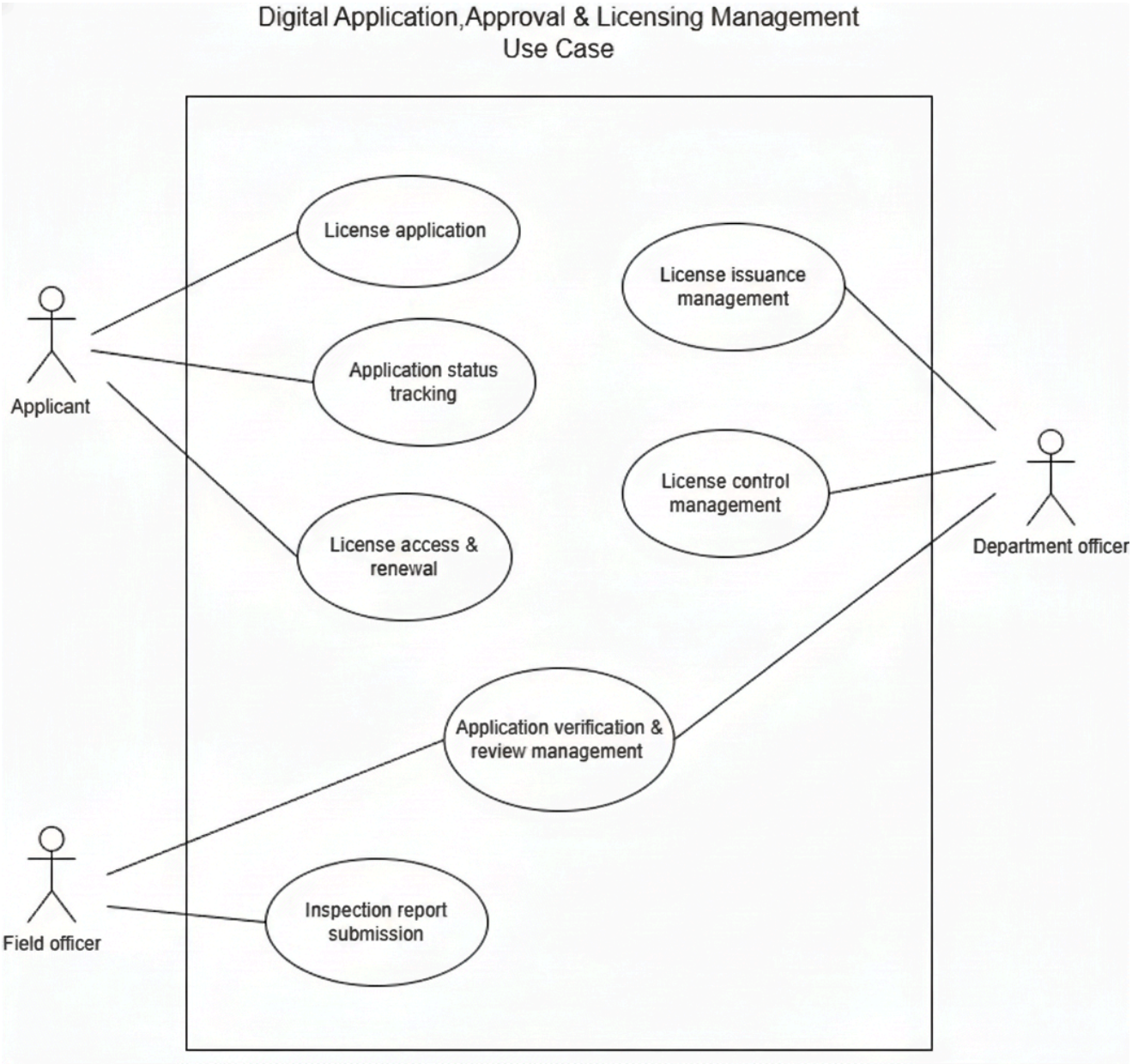
Time Constraint (Field Officer)

- The system shall allow one week for application verification.
- The system shall automatically track verification time.

- The system shall notify if verification is delayed.
- The system shall record delayed actions for monitoring.

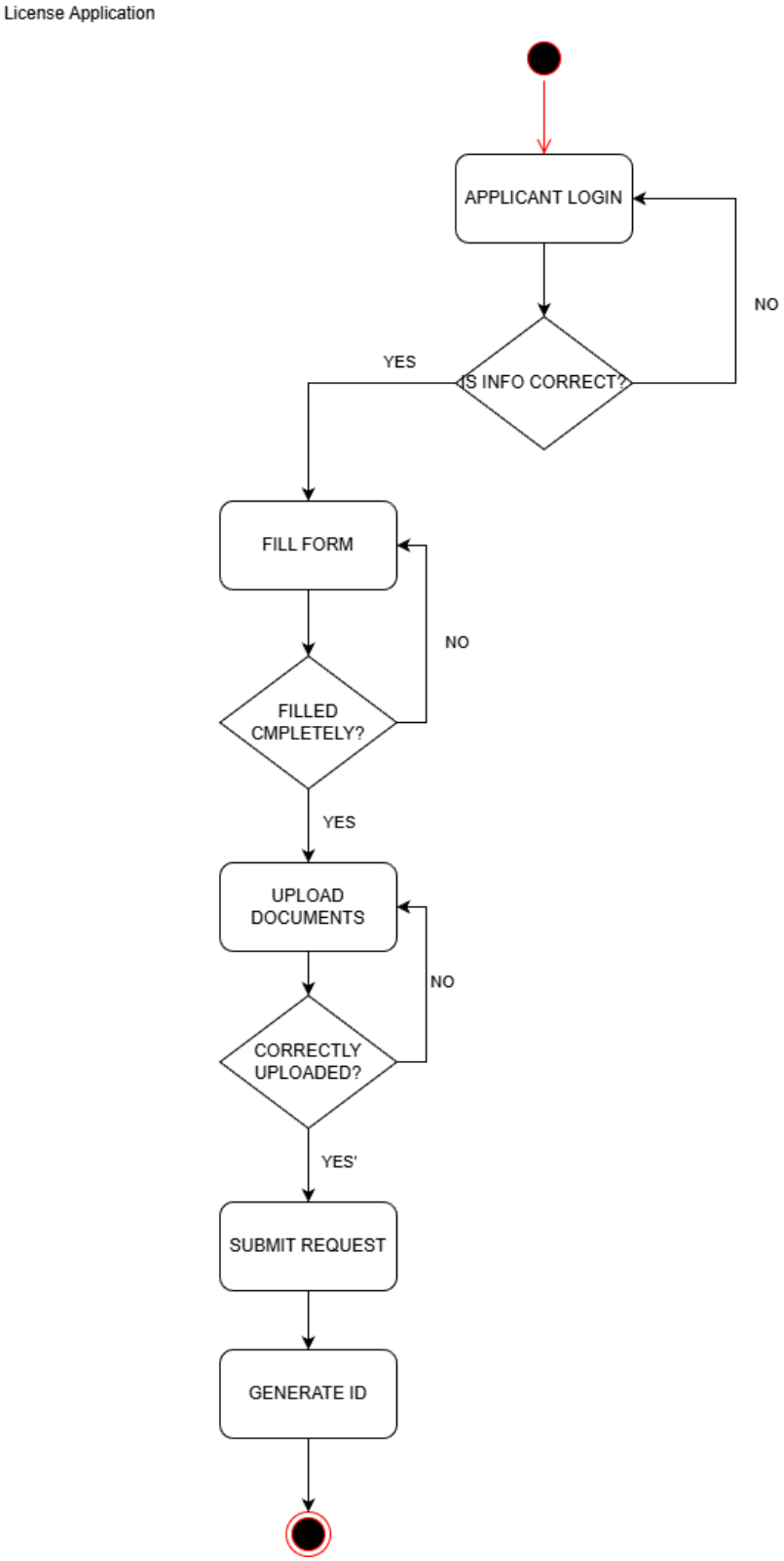
UML Diagrams

Use case Diagram

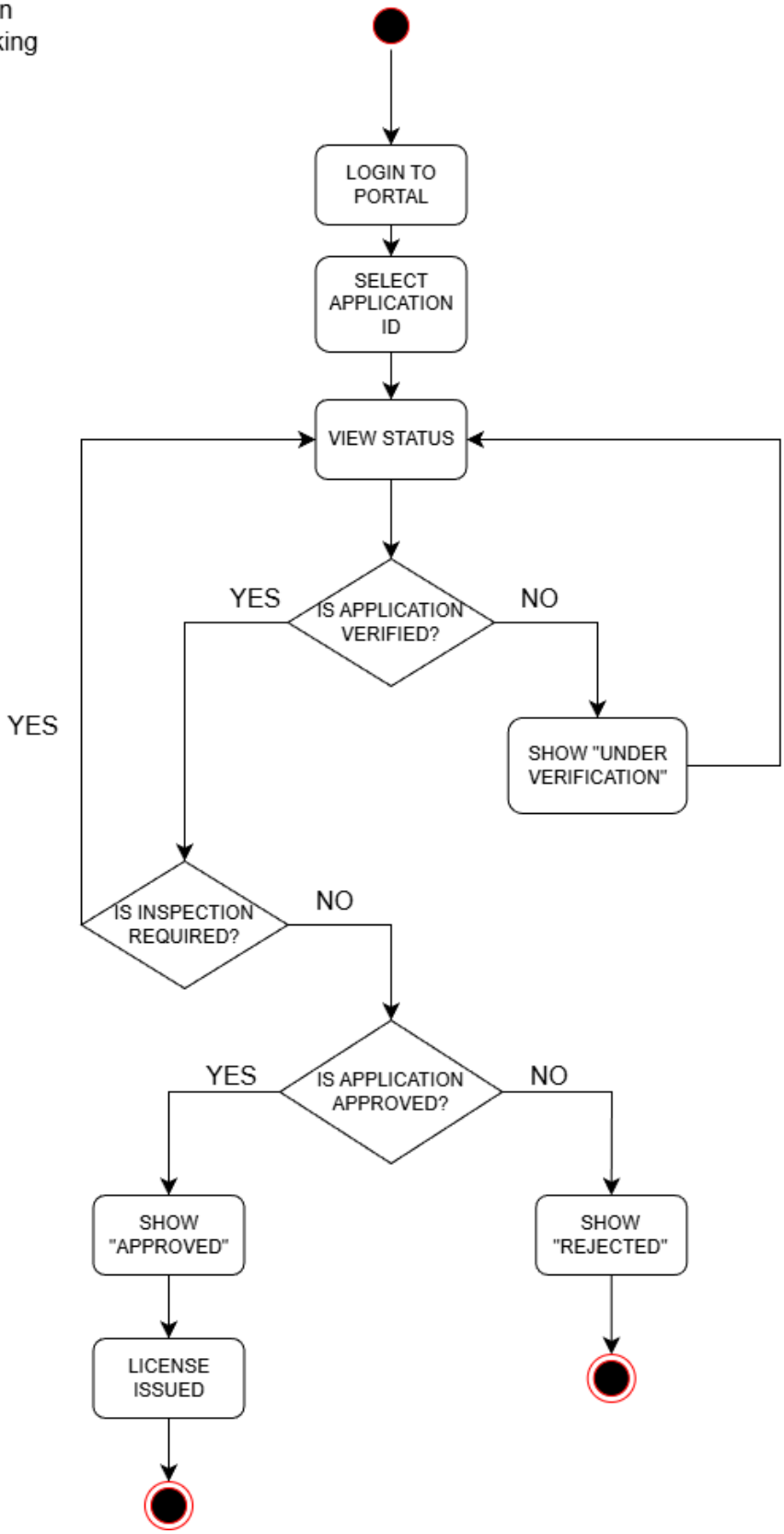


Activity Diagrams

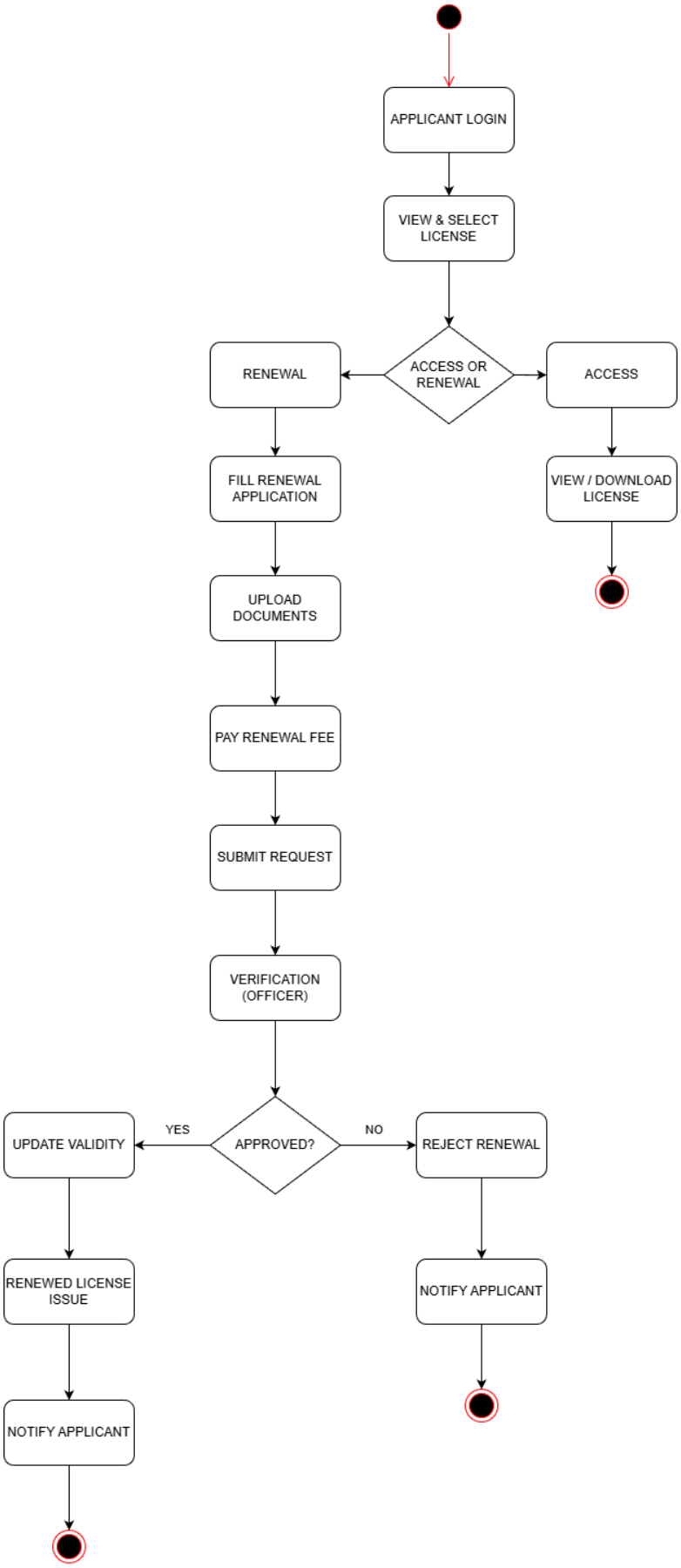
License Application

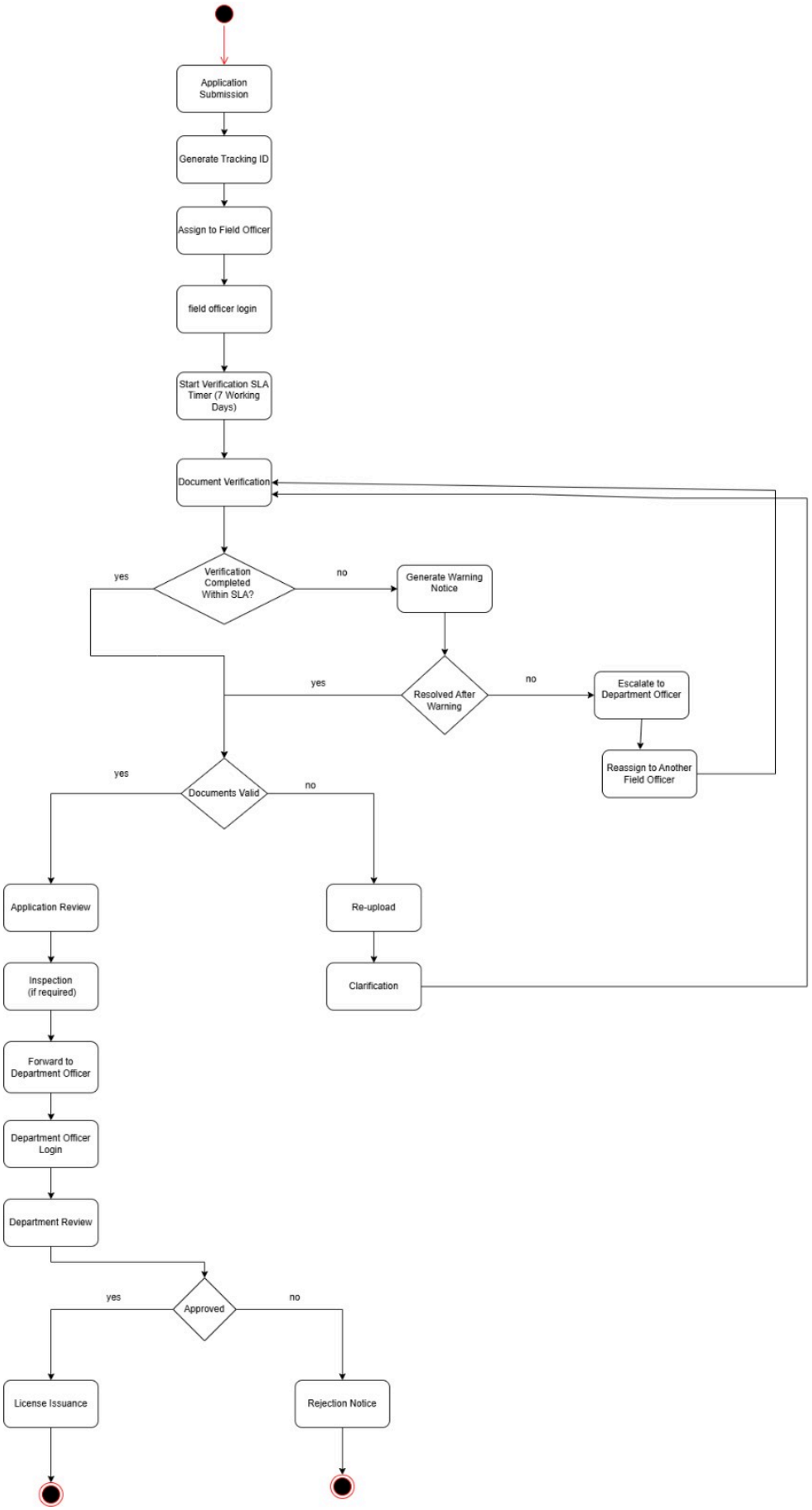


Application
Status Tracking

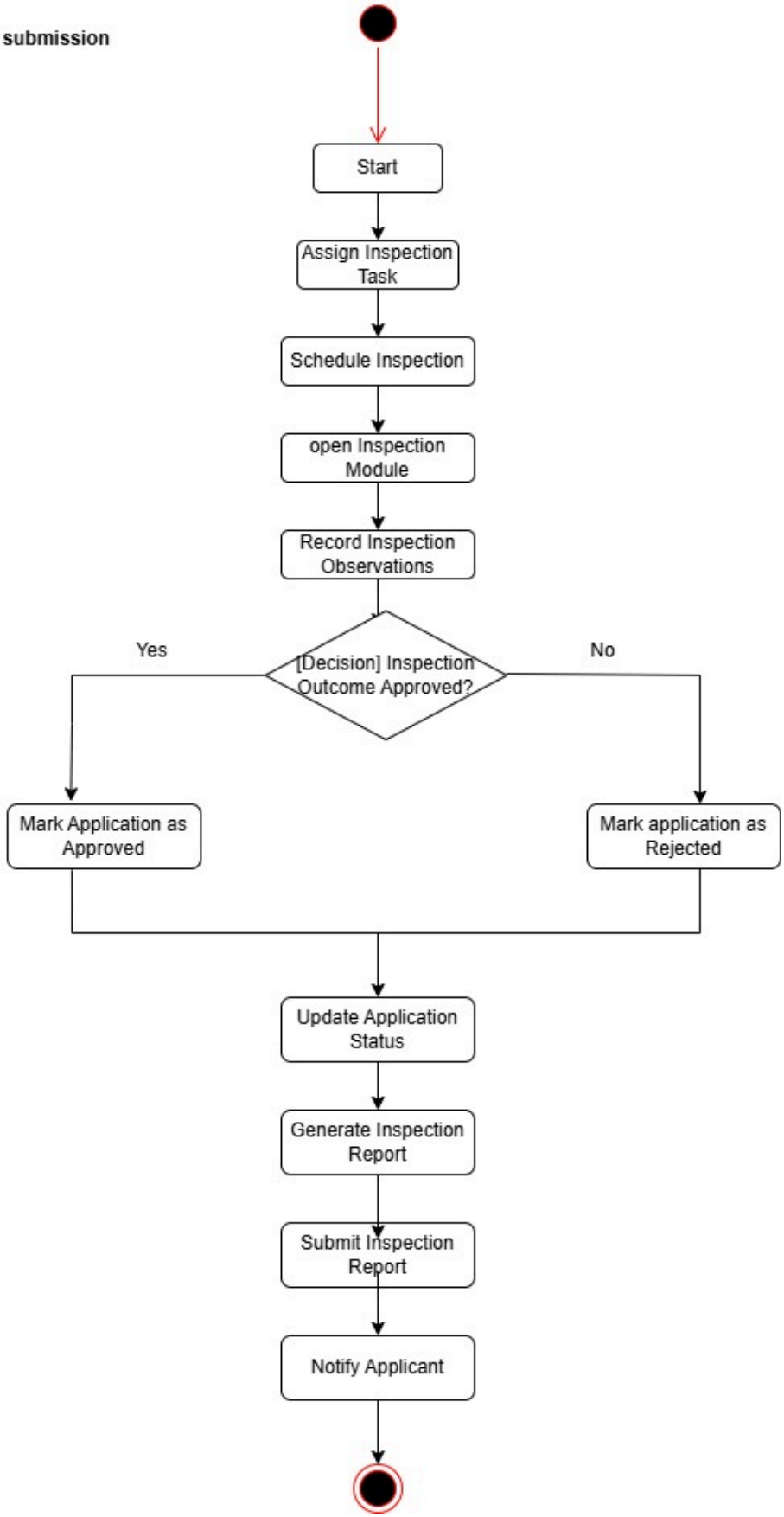


License Access & Renewal

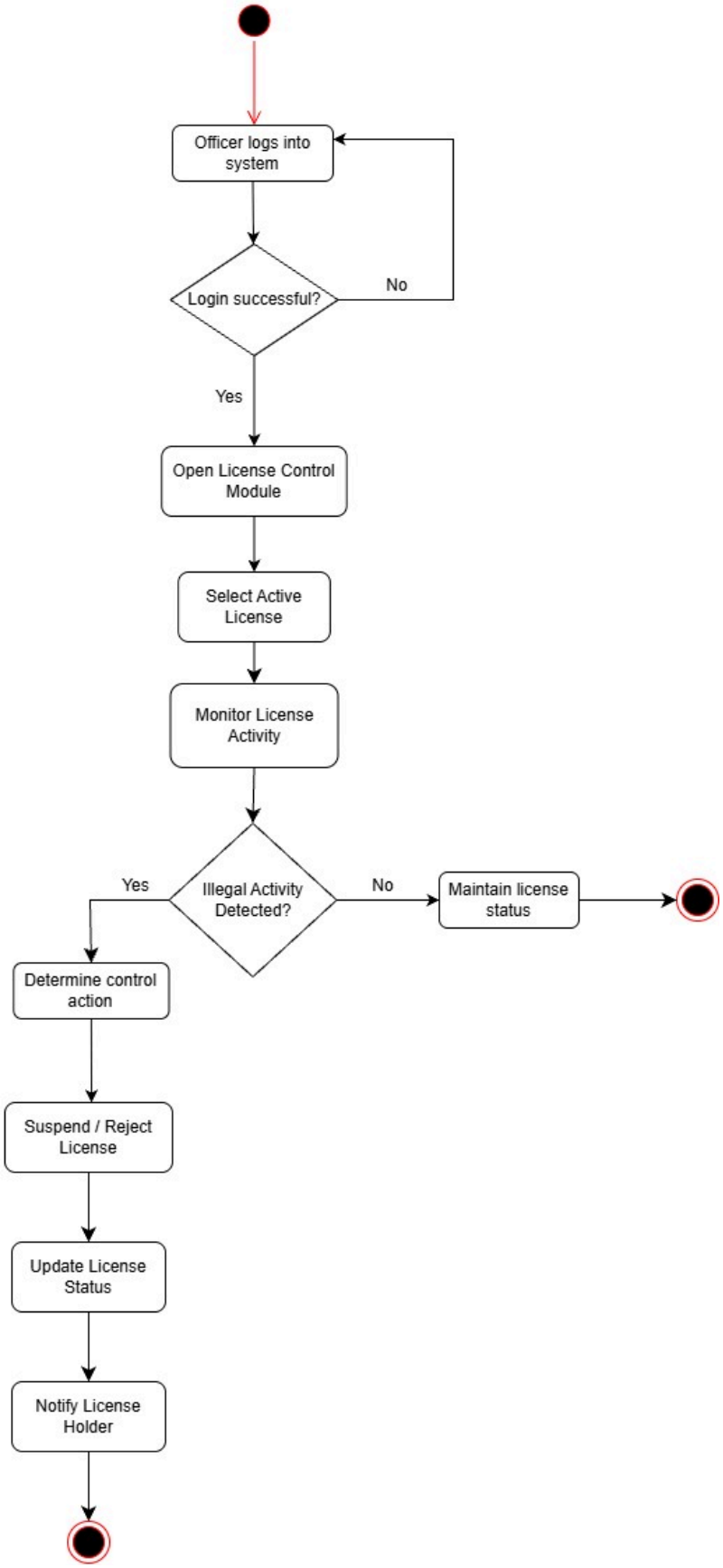



Application Submission
Generate Tracking ID
Assign to Field Officer
field officer login
Start Verification SLA Timer (7 Working Days)
Document Verification
Verification Completed Within SLA?
yes
no
Generate Warning Notice
Resolved After Warning
yes
no
Escalate to Department Officer
Reassign to Another Field Officer
Documents Valid
yes
no
Application Review
Re-upload
Inspection (if required)
Clarification
Forward to Department Officer
Department Officer Login
Department Review
Approved
yes
no
License Issuance
Rejection Notice

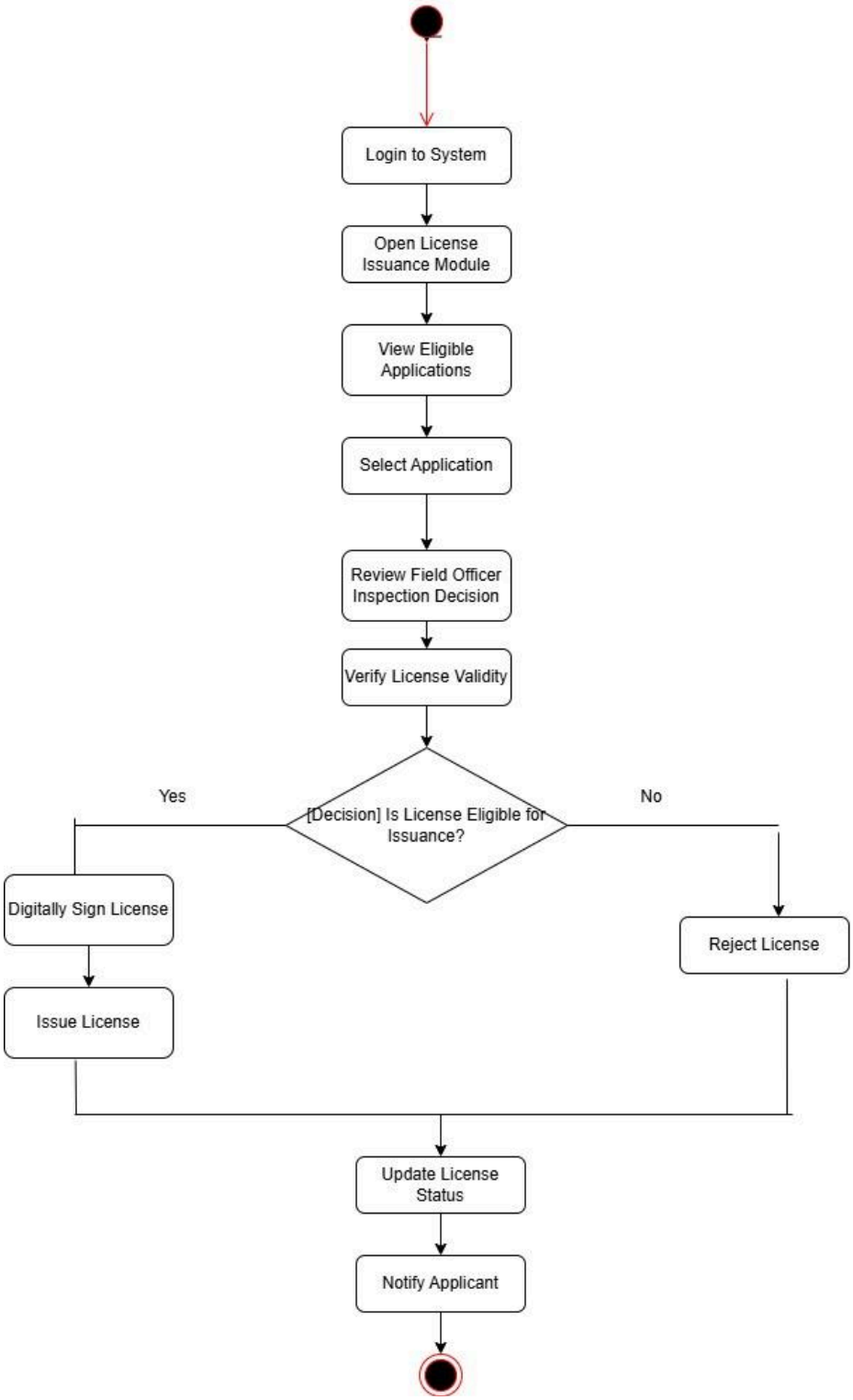
Inspection report submission



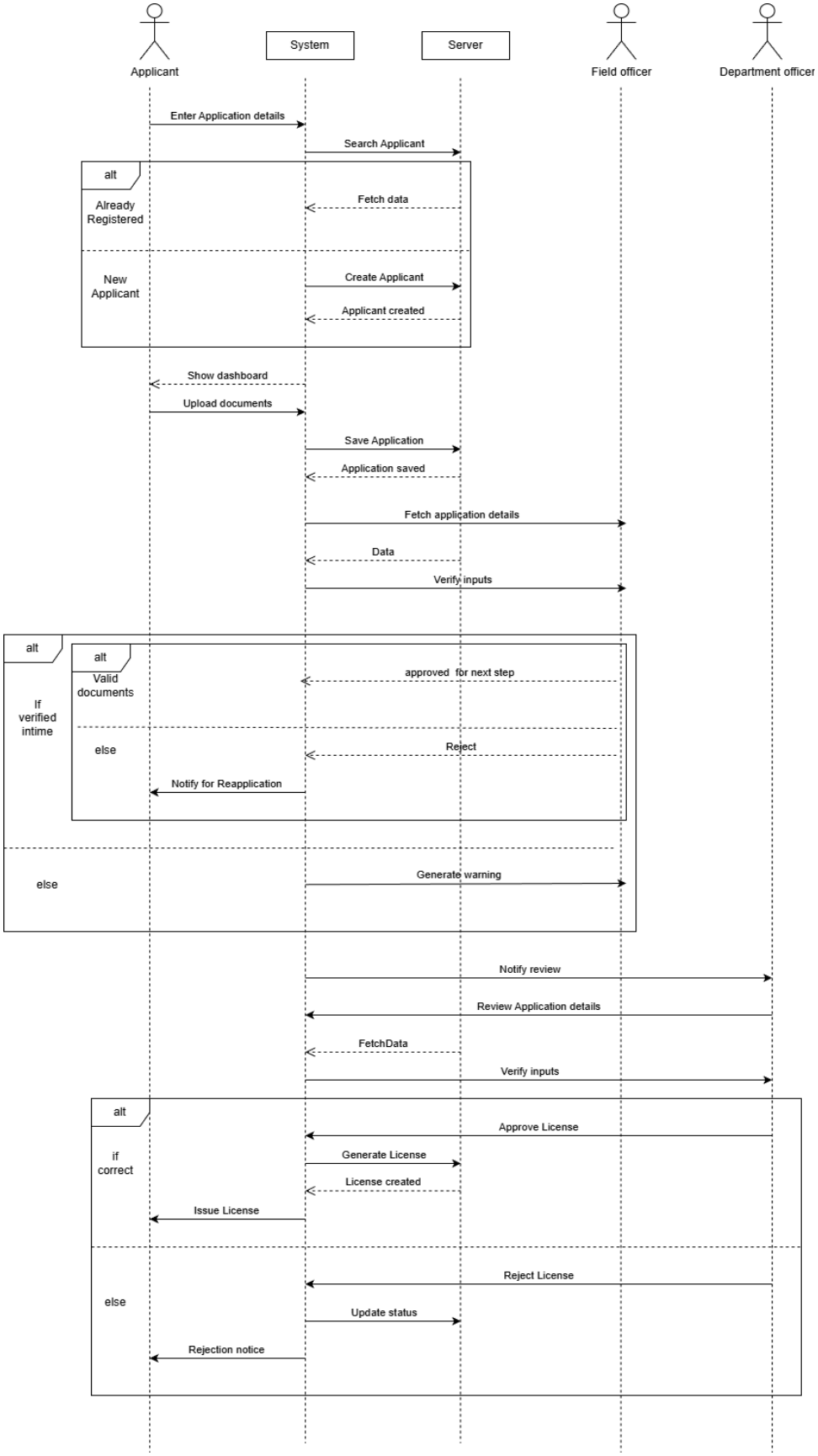
License control management



license issuance management



Sequence diagram


Applicant
System
Server
Field officer
Department officer
Enter Application details
Search Applicant
alt
Already Registered
Fetch data
New Applicant
Create Applicant
Applicant created
Show dashboard
Upload documents
Save Application
Application saved
Fetch application details
Data
Verify inputs
alt
alt
Valid documents
approved for next step
If verified intime
else
Reject
Notify for Reapplication
else
Generate warning
Notify review
Review Application details
FetchData
Verify inputs
alt
Approve License
if correct
Generate License
License created
Issue License
else
Reject License
Update status
Rejection notice