Phase 7: Post-Deployment Support & Continuous Improvement – Expense Approval System

1. Phase Overview

Phase 7 focuses on **post-deployment support, monitoring, user feedback, and continuous improvement** for the Expense Approval System. After the system is live, this phase ensures that **expense requests, approvals, and email notifications function reliably**, while the system remains scalable, secure, and aligned with organizational needs.

2. Objectives of Phase 7

- Monitor live system behavior for **expense submissions and approvals**.
- Provide user support for employees submitting requests and managers approving them.
- Collect **feedback** on approval times, notification clarity, and usability.
- Implement **enhancements** based on feedback, such as faster approval flows or email formatting improvements.
- Ensure **compliance** with company policies and maintain audit trails.

3. Post-Deployment Monitoring

3.1. Expense Request Flow Monitoring

- Check that new expense requests correctly trigger ExpenseRequestTrigger.
- Confirm that **status updates** (Pending → Approved/Rejected) happen automatically via flows.
- Monitor **bulk expense submissions** to ensure triggers handle multiple records without errors.

3.2. Email Notification Monitoring

- Verify that **emails to managers** are sent when a request is submitted.
- Ensure employees receive notifications when their requests are approved or rejected.
- Track dynamic email content for accuracy (amount, type, comments).

3.3. Performance Metrics

Average approval time per request.

- Number of pending approvals at any given time.
- Flow and trigger execution times to avoid Salesforce governor limits.

4. User Support & Issue Management

4.1. Common Issues

- Expense requests not triggering approval flows.
- Emails not being delivered or missing content.
- Unauthorized status changes attempted by employees.
- Validation errors on amounts or missing fields.

4.2. Resolution Process

- Investigate trigger logs (ExpenseRequestTrigger) for failed executions.
- Check Flow interviews for errors.
- Verify field-level security and profile permissions for access issues.
- Apply **bug fixes** in Sandbox, test, then deploy to Production.

5. Feedback & Continuous Improvement

5.1. Feedback Collection

- Gather input from employees and managers on:
 - Ease of submitting expense requests.
 - Clarity of approval notifications.
 - Timeliness of approvals.
 - Suggestions for multi-level approval or threshold-based routing.

5.2. Planned Enhancements

- Multi-level approval based on amount thresholds (e.g., >₹5000 goes to higher manager).
- Integrate with Finance/ERP system for automatic reimbursement tracking.
- Add **mobile-friendly interface** for submission and approval.
- Provide dashboard for managers showing pending approvals and trends.

6. Security & Compliance

- Field-level security ensures employees cannot alter approval status.
- Audit trail tracks all changes to expense records.
- Manager-only access to approval and comment fields.
- Regular review of profiles, permission sets, and sharing rules to maintain data integrity.

7. Reporting & Analytics

- Reports for:
 - o Total expense requests submitted and approved.
 - o Average approval times per department.
 - Most frequent expense categories.
 - Rejected requests with reasons.
- Helps identify approval bottlenecks and areas for process improvement.

8. Knowledge Base & Documentation

- Updated user manuals with new enhancements.
- FAQs on handling rejected requests or missing notifications.
- Documented post-deployment bug fixes and workflow changes for future reference.

9. Lessons Learned

- Real-time monitoring of triggers (ExpenseRequestTrigger) and flows prevents unnoticed failures.
- Feedback from actual users helps refine approval flows and email content.
- Bulk processing and validation rules are essential for large-scale deployment.
- Proper security ensures compliance and prevents accidental data manipulation.

10. Conclusion

Phase 7 ensures that the Expense Approval System continues running smoothly after deployment. By monitoring triggers, flows, and notifications, providing support, and implementing user-driven enhancements, the system achieves:

- Faster and accurate approvals.
- Reduced errors and miscommunication.
- Enhanced transparency and user satisfaction.
- Scalable, secure, and compliant expense management.