**Software Development Lifecycle Process Overview**

The process includes requirements analysis, system design, implementation, testing, deployment, and maintenance. It involves tasks like gathering user stories, designing system architecture, coding, performing tests, deploying the software, and providing ongoing support.

**Process Steps:**

1. **Requirements Analysis:** A business analyst gathers user stories and requirements from stakeholders. If requirements are unclear, a feedback loop is created until all are agreed upon.
2. **System Design:** The system architect and design team develop a detailed system architecture. Technical lead approval is required before proceeding.
3. **Implementation:** The development team writes code based on the system design. If coding is delayed, an escalation step is followed to manage delays.
4. **Testing:** The QA team performs unit, integration, system, and user acceptance tests to ensure the software meets the requirements. Any defects found are reported back for fixing.
5. **Deployment:** After testing is complete and approved, the software is deployed to the production environment. A deployment checklist ensures all steps are completed.
6. **Maintenance:** Post-deployment, the support team monitors the software for issues and provides maintenance. Critical issues are addressed with a hotfix or patch.
7. **Final Review and Closure:** Once stable and all major issues are resolved, a final review is conducted. The project is officially closed, and a "Project Closure Report" is generated.

A diagram of a flowchart

Description automatically generated