Terms of Reference (TOR) for Consultant Services for Assessment and Audit of the Integrated Welfare Management System (IWMS) and Recommendations for Future Development Ref. No: LK-WBB-471913-CS-LCS

1. BACKGROUND

1.1. About the sector & govt. policy/strategy

The social protection sector plays a vital role in safeguarding the well-being of vulnerable populations by providing financial assistance, social welfare programs, and essential support services. Recognizing its significance, the Government of Sri Lanka has prioritized strengthening social protection mechanisms to enhance efficiency, transparency, and accessibility.

As part of this initiative, the government is committed to leveraging digital transformation to streamline welfare benefit administration, improve beneficiary targeting, and enhance service delivery. Currently, the Welfare Benefits Board (WBB) utilizes the Integrated Welfare Management System (IWMS) for administering Aswesuma, elderly payments, and other welfare programs.

1.2. Brief description of the project

The Welfare Benefits Board, under the Ministry of Finance, Planning, and Economic Development, is implementing the Social Protection Project (SPP) to enhance the efficiency and effectiveness of social protection programs.

The Integrated Welfare Management System (IWMS) is designed to streamline and enhance the management of welfare services within the country. It aims to provide a comprehensive solution for registering households, categorizing of HH based on the Multi Deprivation Score (MDS), selection and enrolling of beneficiaries to Cash Transfer (CT) Programs, monitoring progress, handling grievances, and distributing benefits. The IWMS is crucial to the Welfare Benefit Board's (WBB) mission of delivering effective and efficient welfare services. It underpins the administration of all welfare programs and cash transfers to selected beneficiaries.

The WBB maintains the Social Register and oversees all cash transfer programs. Further Welfare programs in the country are managed by various government organizations including the private sector. The IWMS is designed to support these activities based on six core processes:

- Process A: Register Low-income Households and Fiscal Space Management
- Process B: Enroll, Progress Monitoring, and Graduation of Beneficiaries
- Process C: Capture Assistance Provided for LIHH by 3rd Party Institutions
- Process D: Grievance and Query Handling
- Process E: Creating SNAP Distributors, Assigning Beneficiaries, and Distribution of Benefits
- Process F: Citizen Feedback and Information Sharing Process

The Integrated Welfare Management System (IWMS) is currently being deployed to primarily support the Welfare Benefits Board's (WBB) cash transfer programs. Accordingly, the first stage of development has prioritized processes A, B, D, and E. This initial phase is being developed by a third-party company, based on the Business Process Reengineering (BPR) framework.

WBB has entered into a new contract with the developer for the maintenance and customization of the IWMS. The objective of this maintenance contract is to ensure the continuous, secure, and efficient operation of the Integrated Welfare Management System (IWMS). This will involve providing technical support, troubleshooting, and system updates as needed, thereby minimizing downtime and ensuring seamless delivery of services to Aswesuma beneficiaries

This third-party assessment of the system is required to evaluate the quality of work of the developer and to ensure that it meets the required industry standards for coding, security, performance, traceability, useability, completeness, maintainability and meeting the standards required of social welfare systems.

The consultancy requires the in-depth review of the codes and guide the client to ensure the delivered system complies with the requirements specified in the BPR and SRS, while maintaining the accepted industry standards for social welfare systems, and providing recommendations on the current technologies and future strategies, where necessary.

2. OBJECTIVE OF THE ASSIGNMENT

The primary objective of this consultancy is to conduct a comprehensive **technical and functional assessment and audit** of the Integrated Welfare Management System (IWMS), currently in use by the Welfare Benefits Board (WBB). The consultant will support WBB in evaluating the system's architecture, source code, performance, security, traceability, useability, completeness, maintainability, interoperability, and overall design against the intended functional and non-functional requirements.

To perform a detailed technical and functional audit of the existing Integrated Welfare Management System (IWMS) used by the Welfare Benefits Board (WBB), with the aim of:

- 1. **Assessing** the system's architecture, source code, and overall design for compliance with established software engineering standards and the system's documented functional and non-functional requirements.
- 2. **Evaluating** key quality attributes including performance, security, traceability, usability, completeness, maintainability, interoperability through code review, performance benchmarking, with stakeholder consultations.
- 3. **Identifying** existing technical issues, limitations, or risks within the IWMS, and providing a set of prioritized, actionable recommendations to enhance system quality, security, and operational effectiveness.
- 4. **Advising** on the system's scalability and sustainability, including its readiness and suitability to serve as the core platform for an expanded Social Protection

Management Information System (SPMIS), with recommendations on necessary technical and architectural modifications.

Expected Outcomes

Upon completion of the consultancy, the following outcomes are expected:

Establishment of a Testing Environment

 A dedicated, secured test server replicating the production environment, fully configured and ready for system assessment activities.

II Comprehensive System Review Reports

- Detailed report of any proposed corrective actions related to the architectural framework, architectural style, coding frameworks, coding standards, security, performance and data protection standards, database standards, test plans, tool usage, etc., that the software should adhere to.
- Identification and documentation of technical issues and vulnerabilities, with proposed corrective actions.

III Performance and Security Assessments

Results of stress testing, pressure testing, and security reviews, with prioritized risk assessments and recommendations for mitigation.

IV Validation of Compliance with Best Practices

Evaluation of coding standards, architectural styles, programming conventions, and adherence to industry best practices for software development and database design.

V Review and Recommendations on Cloud Infrastructure

Evaluation of current cloud hosting setup including security, scalability, and backup policies, with suggestions for improvements.

VI Improved Internal Capacity

WBB staff trained in User Acceptance Testing (UAT), system deployment procedures, and the use of validation plans for future releases.

VII Continuous Review Mechanism

✤ A structured validation plan for ongoing and future system deliverables, ensuring sustained quality control.

VIII Strategic Recommendation Report

A final advisory report recommending whether the existing IWMS platform can be enhanced to support the broader objectives of a Social Protection Management Information System (SPMIS), or whether a new system architecture should be pursued.

3. SCOPE OF SERVICES

3.1. preliminary work – reviews, surveys, field work

Stage 1 - PREPARE TESTING ENVIRONMENT

- I Study existing contractual, technical and functional documentation of the system and understand the scope of the system.
- II Configure a dedicated server exclusively for testing that replicates the configuration of the production environment, including operating systems, server software and network configurations.

- III Establish appropriate security measures to protect the test environment and test data from unauthorized access.
- IV The source codes of the application will be provided in a separate development branch of the GitHub repository for testing to the consultant.
- V Set up the system with a backup copy of the production environment database dump with anonymized sensitive data.
- VI Request for any other files that may have been generated by the system in the production environment, which will be provided by the client.
- VII The consultant will assist the WBB and the system developer to provide the data/programs/ files in manner stated above.
- VIII To advise the WBB of any other information/infrastructure required to undertake the proposed review of the system.
- IX To review and comment on the overall architecture, technology stack of the system and the architecture style of development.
- X Install all necessary development tools, such as frameworks, compilers, interpreters, package managers, and libraries, on the server to replicate the IWMS system configure the environment variables and file paths necessary for the system to recognize and use these tools correctly.

Stage 2 - IMPLEMENTATION & REVIEW OF THE DELIVERED SYSTEM

- I Examine the source code and understand its structure, quality, and complexity including identification of code-level issues and provide a report of issues and corrective actions.
- II Examine the user management component and master file management components and ensure they meet the requirements of the proposed system and provide a report of issues and corrective actions.
- III Undertake a code test and stress test on the system and report on the performance of the system and appropriate corrective action.
- IV Provide a report of any proposed corrective actions related to the architectural framework, architectural style, coding frameworks, coding standards, security, performance and data protection standards, database standards, test plans, tool usage, etc., that the software should adhere to.
- V Review and advice on current cloud infrastructure architecture and adequacy, including backup policies.
- VI To guide the developers and ensure the recommendations specified in the reports are implemented (including any bug fixes).
- VII Train WBB to undertake comprehensive UAT and prepare monthly reports (one hard copy and soft copy).
- VIII Train WBB staff to undertake deployment of the system.

Stage 3 - REVIEW AND VALIDATION OF ON-GOING DELIVERABLES

I Prepare a validation plan to review on-going deliverables to ensure the current builds under review are compliant with overall requirements, architectural and other standards agreed in stage 2.

- II Review of user stories to ensure its compliance with the overall requirements of the system specified in the BPR related to creating the registry and cash transfer programs.
- III Perform a review of the code using appropriate tools that will verify:
 - Completeness of the source code,
 - It is installable and executable
 - It is readable and editable
 - It has the recommended programming structures
 - Identify and report code errors and follow up to ensure their rectification
 - Undertake a pressure testing on the system
 - Evaluate and comment whether established best practices and styles, such as variable naming, indentation, documentation, and the use of comments have been adopted and recommendations for rectification.
 - Potential code quality issues, such as duplication, excessive complexity, security vulnerabilities, and coding errors are identified.
 - Evaluate the database structure (within the web app and mobile app) and its compliance with industry best practices with recommendations for rectification.
- IV Execute the test cases in the server environment according to the established validation plan. Record test results, including any errors found, unexpected behavior, or deviations from expected results.
- V Analyze test results to identify any defects, discrepancies or functional problems.
- VI Classify problems according to their severity and priority, and clearly document each of them for monitoring and resolution.
- VII Perform a security review to identify potential vulnerabilities or weaknesses in the code that could be exploited by external attackers (SQL injection, lack of input validation, and exposure of sensitive information)
- VIII Provide proposed corrective action and follow-up on corrections.
- IX Based on the comprehensive review of the system to provide a recommendation whether the current system could be enhanced to meet the requirements of the broader social protection management Information system.

4. Methodology

The consultancy firm will use a mix of qualitative and quantitative methods to assess and advise on the IWMS, including:

- Document Review: Analyzing system documentation to understand scope and requirements.
- Technical Analysis: Evaluating architecture, coding standards, and security measures.
- Comparative Analysis: Benchmarking against best practices and similar systems.
- Code Review: Verifying source code completeness, readability, and security using appropriate tools.
- Testing: Performing unit, integration, and security tests to ensure system functionality and safety.
- Validation: Preparing a validation plan for reviewing ongoing and new deliverables.

The consultancy firm should design and prepare a detailed methodology plan, defining roles, responsibilities, and the proposed-upon approach. All activities will adhere to this plan for consistency and accountability.

5. DURATION OF THE ASSIGNMENT

The consultancy firm will span over a period of three months.

6. SCHEDULE FOR COMPLETION OF TASKS

As specified in Paragraph 9 of this TOR.

7. DATA, SERVICES AND FACILITIES TO BE PROVIDED BY THE CLIENT

7.1. reports, information access

The following will be provided to the consultant.

- Latest BPR and SRS
- Access to the IWMS system and the code repository.
- Inception report, Progress Report, System Maintenance Report, Customization Implementation Report and Incident/Issue Resolution Reports provided by developer under the maintenance agreement

7.2. office facilities

Office facilities will be provided during the consultation.

7.3. support staff

Necessary resources within WBB and developer will be facilitated for consultation.

8. CLIENT'S INPUT AND COUNTERPART PERSONNEL

The client will provide all documentary information, source codes, and make available any individuals the consulting organization may need to interview in relation to their evaluation.

9. REPORTING REQUIREMENT & TIME SCHEDULE FOR DELIVERABLES

9.1. Format, frequency, and contents of reports;

9.1.1. Key deliverables

The consultant / consultancy firm will provide the following key deliverables:

- Inception Report: Outlines project understanding, approach, methodology, timeline, and milestones, submitted within the first two weeks.
- Confirmation of completion of Stage 1, submitted within first three weeks.
- Recommendations for System Improvements as required in stage
 2 of the scope of works, submitted within the first 8 weeks
- ✤ Certificate of completion of each component delivered.
- Monthly report of the compliance and corrective action taken for each outstanding deliverable.

Final Assessment Report and Presentation: Finalized report and presentation to stakeholders summarizing findings and recommendations.

These deliverables will ensure a thorough evaluation of the IWMS and provide clear guidance for future development and enhancements.

9.1.2. Reporting

The consultancy firm will report to the Chairman of Welfare Benefits Board (WBB) or WBB's designated representative. Reporting includes:

- Weekly Progress updates: Updates on activities, milestones, and challenges.
- On-going and stage completion report: at the completion of each stage a completion report should be provided.
- Final Presentation and report: Comprehensive assessment of findings and recommendations.
- 9.2. Number of copies, and requirements to electronic submission (or on CD ROM). Reports should be submitted via email and in printed format. Final reports shall be delivered in a CD with two hard copies.
- 9.3. Dates of submission;

Inception report: submitted within the first two weeks Weekly Progress updates: Updates on activities, milestones, and challenges. On-going and stage completion report: as specified in 9.1.1 above Final Presentation and report: Comprehensive assessment of findings and recommendations, at the end of the assignment. Certificate of completion: upon submission of each component delivered.

 9.4. Persons (indicate names, titles, submission address) to receive them; etc. Project Director
 Social Protection Project
 No:191, Dharmapala Mawatha
 Colombo 07

10. PROCEDURE FOR REVIEW OF DELIVERABLES

I. Submission of Deliverables

The Firm shall submit deliverables according to the agreed work plan and schedule as stated in (9) above.

II. Initial Review by Project Team

The Project Management Unit (PMU) and Acceptance Committee will conduct an initial review within ten (10) working days to check completeness, adherence to TOR requirements, and overall quality.

III. Composition of the Review/Acceptance Committee

The deliverables will be reviewed by a five-member acceptance committee of the WBB comprising of 2 representatives from the IT division, one representing Operations division from WBB, one IT-expert from the SPP, and one representative from the Ministry of Finance IT division.

IV. Provision of Feedback

Consolidated written feedback will be provided to the Firm within ten (10) working days after the initial review. Any identified gaps, required clarifications, or improvements will be highlighted.

V. Revision and Resubmission

The Firm shall revise and resubmit the deliverables addressing all comments within a timeframe agreed upon with the PMU.

VI. Final Approval

After satisfactory revisions, the PMU, in consultation with the Technical Evaluation Committee and key stakeholders, will formally approve the deliverables.

VII. Documentation and Record-Keeping

All review comments, feedback communications, and final approved versions of deliverables shall be documented and archived for transparency and accountability.

11. TEAM COMPOSITION & QUALIFICATION REQUIREMENTS FOR THE KEY EXPERTS WHOSE CV AND EXPERIENCE WOULD BE EVALUATED.

The Consultancy Firm must propose a qualified team of experts with relevant experience in system architecture review, coding standards evaluation, information security, and social protection information systems. The following key experts will be evaluated based on their curriculum vitae (CV), professional experience, and relevant qualifications:

A. Team Leader / Lead ICT Systems Auditor

Qualifications:

- Bachelor's Degree or equivalent in Computer Science, Information Technology, Software Engineering, or related fields.
- Recognized certifications such as CISA, CISSP, or similar are desirable.

Experience:

- Minimum of 10 years of professional experience in ICT system audits, architecture assessments, or large-scale IT system reviews.
- Proven leadership experience.

Experience with social protection or public sector systems is an advantage.

Responsibilities:

Oversee project delivery, ensure quality assurance of deliverables, and maintain client communication.

B. Senior Software Architect

Qualifications:

Master's Degree or equivalent qualification in Software Engineering, Computer Science, or related fields.

Experience:

- Minimum of 7 years in software architecture design and review.
- Strong knowledge in PHP (Laravel), Microsoft technologies, cloud computing, database architecture, and modern application architectures.

Experience in Data Security and Data Protection standards.

Responsibilities:

- Review and assess system architecture, application frameworks, and coding standards.
- Review and assess the compliance of the system with the agreed system requirements.
- Review and assess the compliance of the system with the current data protection requirements.
- Supervise and evaluate the feedback from the analysts.

C. Information System and Security Analyst

Qualifications:

- Sachelor's Degree in Information Security, Computer Science, or related fields.
- Certifications such as CISSP, CISM, CEH, or ISO 27001 Lead Auditor are preferred.
- Certification in Cloud Infrastructure and Cloud Security evaluation Experience:
- Minimum of 5 years in ICT security and cloud security assessments, and data protection audits.
- Familiarity with Sri Lankan data protection regulations.

Responsibilities:

Evaluate system security and ensure regulatory compliance,

D. QA Tech Lead

Qualifications:

- Sachelor's Degree in Information Security, Computer Science, or related fields.
- Recognized certifications such as CAT or similar are desirable.
- Proficiency in PHP (Laravel), Microsoft technologies, cloud computing, database architecture, and modern application architectures.

Experience:

- Strong understanding of software testing methodologies and automation tools.
- Experience with test management tools such as JIRA, Selenium, or TestRail.

Minimum of 5 years in Quality Assurance, project management and risk assessment.

Responsibilities:

- Define QA Standards
- Manage the QA Team and oversee the testing process

E. IT Infrastructure expert

Qualifications:

Bachelor's Degree or equivalent in Software Engineering, Computer Science, or related fields.

Experience:

- Minimum of 5 years' experience full-stack in software development.
- Expertise in cloud computing, virtualization, and cybersecurity.
- Familiarity with IT infrastructure frameworks like ITIL and DevOps Responsibilities:
 - Identify enterprise level hardware and software solutions
 - Ensure IT Infrastructure aligns with security standards and project goals
 - Develop disaster recovery plans and implement backup solutions for data protection.
 - Recommend upgrades and improvements

F. Web App System Analyst

Qualifications:

Bachelor's Degree or higher in Software Engineering, Computer Science, or related fields.

Experience:

- Minimum of 5 years' experience full-stack in software development.
- Strong knowledge in PHP (Laravel), Front End Technologies, cloud computing, SQL and NoSQL (JSON) DBMS architectures, and modern application architectures.

Responsibilities:

- Review and assess the quality of the system coding and database structures/architecture.
- Review and assess the quality of the test cases and its outcome

G. Mobile App Analyst

Qualifications:

 Bachelor's Degree or higher in Software Engineering, Computer Science, or related fields.

Experience:

- Minimum of 5 years' experience in Mobile App development.
- Strong knowledge in mobile app development, and related mobile app technologies.

Responsibilities:

- Review and assess the quality of the coding of the mobile app and the coding methodology and standards.
- Review and assess the quality of the mobile data management as per the requirements.

H. Business Process/Functionality Review Analyst

Qualifications:

✤ Bachelor's Degree or higher in Relevant Field of Study.

Experience:

- Over 5 years' experience in system analysis and design, preferably with social protection system.
- Experience in review of system requirements against system delivery *Responsibilities:*
- Ensure system alignment with system requirements and social protection system data security requirements.

12. PAYMENT SCHEDULE

Payment will be made in installments as follows:

- 20% upon completion of Stage 1
- 30% upon completion of Stage 2
- 30% (staggered payment) upon completion of each process within stage 3
- 20% upon submission and acceptance of the final assessment report.

13. The consultant must not be affiliated with the IWMS development vendor.

14. The selected Consultant must signed nondisclosure (NDA) agreement.

Annexure A: Responsibilities of the Organization and the individual Specialists/Analysts

The primary objective of the assignment: is to ensure the IWMS System is fit for use by the WBB. Further, the system should be secure (both external threats and how the data is saved and shared), easy to use, perform reliably under pressure situations, capable of being maintained conveniently, scalable into more welfare programs as well as more registrations, operate as required, possessing adequate redundancy for recovery during a disaster:

Based on the above objective, the following key resources have been identified to evaluate the IWMS System, provide recommendations and ensure the system operates as required.

1. Team Lead:

- **Overall Coordination and Management:** Responsible for the successful execution of the entire assurance effort. This includes planning, organizing, and directing the activities of all team members.
- **Stakeholder Consultations:** Prior to initiating the assignment to understand the current status of the system from the perspective of the WBB, SPP and the Users.

- **Stakeholder Communication:** Serves as the primary point of contact for you and other stakeholders, providing regular updates on progress, findings, and recommendations.
- **Team Guidance and Support:** Provides leadership, mentorship, and support to the individual specialists, ensuring they have the resources and information needed to perform their tasks effectively.
- **Risk and Issue Management:** Identifies potential risks and issues that could impact the assurance process and works proactively to mitigate them.
- **Deliverable Review and Sign-off:** Reviews and approves all key deliverables, ensuring they meet the required quality standards and provide valuable insights.
- **Reporting and Documentation:** Prepares comprehensive reports summarizing the assurance activities, findings, and recommendations for improvement.
- **Budget and Timeline Management:** Oversees the budget and ensures the assurance activities are completed within the agreed-upon timelines.

2. Senior Software Architect:

- **Setting-up the Environment:** Responsible for setting-up the environment for undertaking the assignment.
- System Architecture Review: Analyses the overall system architecture, including its components, interfaces, and interactions, to identify potential weaknesses or design flaws that could impact accuracy, security, robustness, or performance under pressure.
- Security Architecture Assessment: Evaluates the security architecture to ensure it incorporates appropriate security controls and mitigates potential vulnerabilities.
- **Scalability and Performance Analysis:** Reviews the architecture for its ability to scale under load and maintain performance under pressure.
- **Technology Stack Evaluation:** Assesses the chosen technologies for their suitability, security implications, and potential for integration issues.
- **Design Pattern and Best Practice Adherence:** Verifies that the system design adheres to industry best practices and established design patterns.
- **Providing Architectural Recommendations:** Offers expert recommendations on architectural improvements to enhance the system's quality attributes.
- **Deployment Management (DevOps):** To review the system deployment methodologies and its adequacy to ensure the reliability of the system.
- **Collaboration with the Teams:** Works closely with the analysts and provide guidance to the team members on their respective roles, and consolidate the information to provide a complete picture of the System.
- **Technical Discussions with Development Team:** Works closely with the development team to understand and rectify the identified issues to ensure the quality of the IWMS.

3. System/Security Analyst:

- **Comprehensive Security Testing:** Conducts thorough security assessments, including penetration testing, vulnerability scanning, and code reviews, to identify security flaws in both the web and mobile applications.
- **Infrastructure Security Review:** Evaluates the security of the underlying infrastructure that supports the applications.
- Data Security and Privacy Assessment: Ensures that data is handled securely and in compliance with relevant privacy regulations. The selected Consultant shall be required to sign a Non-Disclosure Agreement (NDA) prior to the commencement of the assignment.
- Intellectual Property Rights: All designs, Systems and Software developed under this contract will remain the property of Welfare Benefits Board, Ministry of Finance, Planning and Economic Development.
- **Threat Modelling:** Identifies potential external threats and attack vectors against the system.
- **Security Requirements Verification:** Validates that security requirements are properly implemented and effective at the program/database level.
- **Disaster Recovery and Business Continuity Review:** Assesses the system's resilience and the plans for disaster recovery and business continuity.
- **Performance and Stability Testing (System Level):** Conducts load, stress, and soak testing to evaluate the system's stability and performance under various conditions.

4. Web App Analyst:

- **Functional Accuracy Testing (Web):** Verifies that all features and functionalities of the web application operate correctly and meet the specified requirements.
- **Detailed Review of the System Code:** To review the web app codes in detail and identify issues in relation to fit of use, maintainability, scalability, performance and reliability.
- User Interface (UI) and User Experience (UX) Review (Web): Evaluates the usability, accessibility, and overall user experience of the web application.
- **Performance Testing (Web Specific):** Conducts performance tests specific to the web application, focusing on page load times, responsiveness, and scalability under web traffic.
- Security Testing (Web Specific): Performs security testing specific to web vulnerabilities, such as cross-site scripting (XSS), SQL injection, and other OWASP Top 10 risks.
- **Browser Compatibility Testing:** Ensures the web application functions correctly across different web browsers and versions.
- **API Testing:** Tests the APIs that the web application interacts with to ensure their accuracy, security, and performance.

5. Mobile App Analyst:

- **Functional Accuracy Testing (Mobile):** Verifies that all features and functionalities of the mobile application operate correctly and meet the specified requirements on different mobile platforms (e.g., Android with different flavours).
- **Detailed Review of the Mobile App Code:** To review the mobile app codes in detail and identify issues in relation to fit of use, maintainability, scalability, performance and reliability.
- User Interface (UI) and User Experience (UX) Review (Mobile): Evaluates the usability, accessibility, and overall user experience of the mobile application on different devices and screen sizes.
- **Performance Testing (Mobile Specific):** Conducts performance tests specific to the mobile application, focusing on app launch time, responsiveness, battery consumption, and data usage.
- Security Testing (Mobile Specific): Performs security testing specific to mobile vulnerabilities, such as insecure data storage, improper session handling, and client-side injection.
- **Device Compatibility Testing:** Ensures the mobile application functions correctly across a range of target devices and operating system versions.
- **API Testing (Mobile Specific):** Tests the APIs that the mobile application interacts with to ensure their accuracy, security, and performance in the mobile context.

6. Process/Functionality Review Analyst:

- **Requirements Traceability Analysis:** Ensures that the implemented software accurately reflects the documented requirements and that all requirements are adequately tested.
- **Business Logic Validation:** Reviews the underlying business logic and algorithms to ensure they are accurate and produce the expected outcomes.
- **Data Flow and Integrity Analysis:** Examines how data flows through the system and verifies its integrity at each stage.
- **Process Adherence Review:** Evaluates whether the development processes followed are robust and contribute to the quality of the software.
- **Test Coverage Analysis:** Assesses the comprehensiveness of the testing efforts to ensure that all critical functionalities and potential scenarios are adequately covered.
- User Story/Use Case Validation: Reviews user stories and use cases to ensure they are clear, testable, and accurately implemented.
- **System Testing Mechanism:** Review the current system testing mechanisms and their adequacy for ensuring the reliability and the systems are fit for use.
- **Feedback Loop Analysis:** Evaluates the mechanisms for incorporating feedback from testing and other assurance activities back into the development process.