**Functional Requirements**

1. **User Authentication & Authorization**
   * The system must authenticate users, including administrators and reviewers, ensuring secure access.
   * Role-based access control (RBAC) must be implemented to restrict access to sensitive data, such as flagged fraud reports.
2. **Feedback Collection & Storage**
   * The system must collect and store candidate feedback from two databases:
     + Architecture Grade and Feedback Database for Test2 (Architecture Diagram Test)
     + Aptitude Test Grade Database for the first test (MCQs and short answers)
3. **Automated Feedback Generation**
   * The system must analyze collected feedback to generate detailed, automated responses for candidates.
   * AI models should be employed to assess performance and provide personalized feedback.
4. **Fraud Detection Mechanism**
   * The system must analyze ungraded databases to identify potential fraudulent activities, such as:
     + Answer collusion (e.g., copy-pasting)
     + Time-based answer manipulation
   * Detected anomalies should trigger alerts for administrative review.
5. **Administrative Dashboard**
   * Provide a user interface for administrators to:
     + Review flagged fraudulent activities
     + Manage user roles and permissions
     + Access system logs and reports
6. **Data Integrity & Security**
   * Ensure all data transmissions are encrypted.
   * Implement measures to prevent unauthorized data access or modifications.
7. **System Integration**
   * Integrate seamlessly with existing databases and AI models.
   * Ensure compatibility with current infrastructure and workflows.