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(54) Title of the invention : FORENSIC LABORATORY MANAGEMENT AND ANALYSIS SOFTWARE SYSTEM WITH INTEGRATED MULTI-LEVEL AUTHENTICATION AND DNA SEQUENCE MATCHING

(51) International classification	:G06F 17/30, G06Q 10/06, G06Q 10/00, G06F 19/00, G06Q 10/10	(71)Name of Applicant : 1)Dr. Smrita Singh Address of Applicant :School of Biotechnology, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102, India Uttar Pradesh India 2)Prof. Tanzeel Ahmed 3)Mr. Ashutosh Singh Chauhan
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(57) Abstract :

The present invention relates to a Forensic Laboratory Management and Analysis (FLMA) software system providing a comprehensive, integrated platform for managing forensic laboratory operations. The system employs Visual Basic 6.0 as the front-end graphical user interface and Microsoft SQL Server 2000 as the back-end relational database management system in a client-server architecture. The software integrates ten functional sections including staff contacts management, book catalogue, chemical inventory, apparatus tracking, specimen records, person DNA details storage, sequence search and entry, automated sequence matching, racial differentiation charting, and data report generation into a unified platform. A three-tier security architecture comprising general user login, biological login, and chemical login classes provides role-based access control to specific categories of forensic data. The invention features an automated DNA and protein sequence matching module that compares unknown sequences against stored database records and returns organism identification, species name, and matching percentage within seconds. The system enables authorized users to add, delete, update, save, and view forensic records through dynamic menu generation. The software is flexible, reliable, user-friendly, and scalable for future upgrades including online access and integration of additional forensic functionalities.

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