



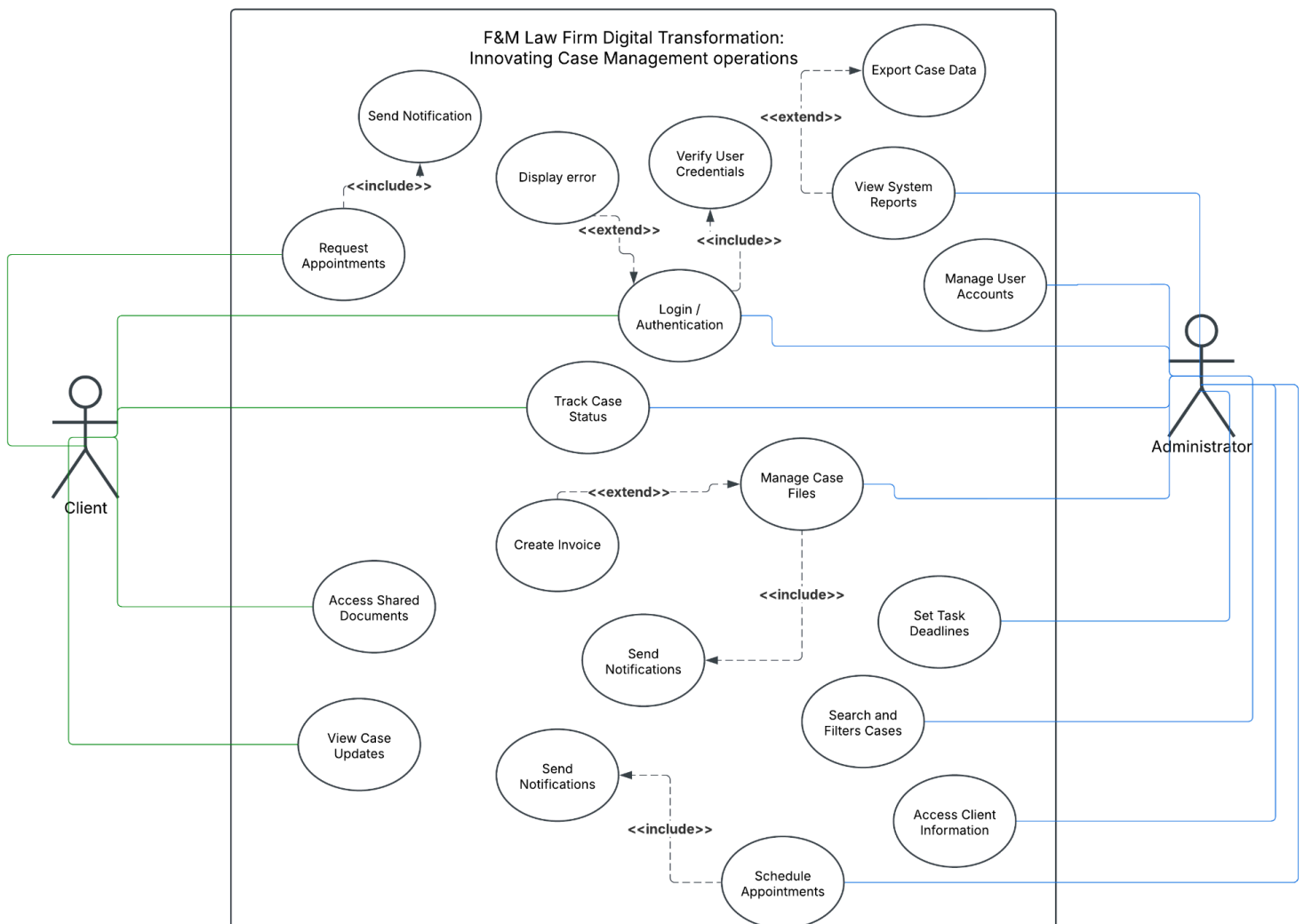
SE101 - Software Engineering

Group No. 6

Section: SBIT-2J

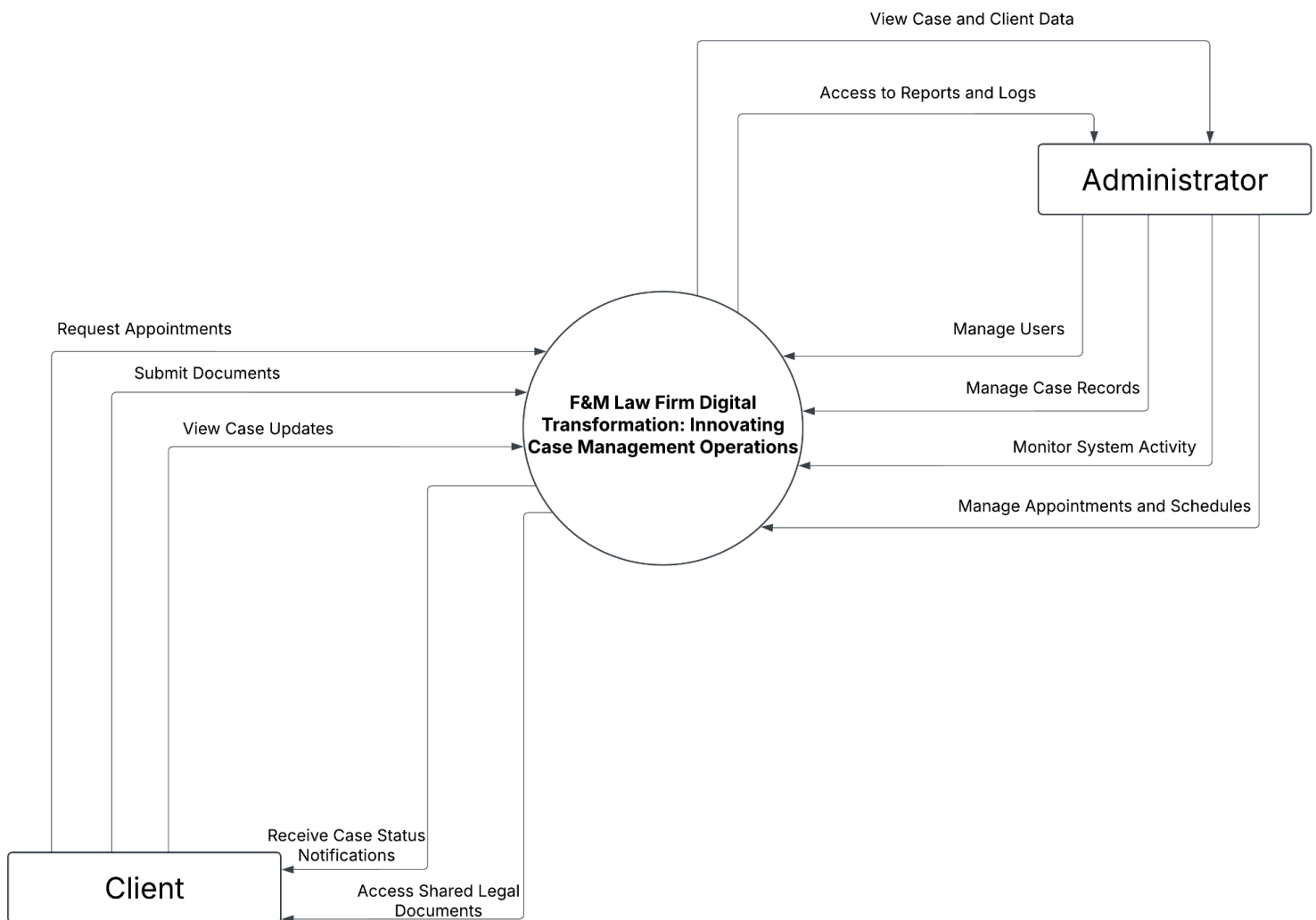
Title: F&M Law Firm Digital Transformation: Innovating Case Management Operations	
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a. Use Case Diagram



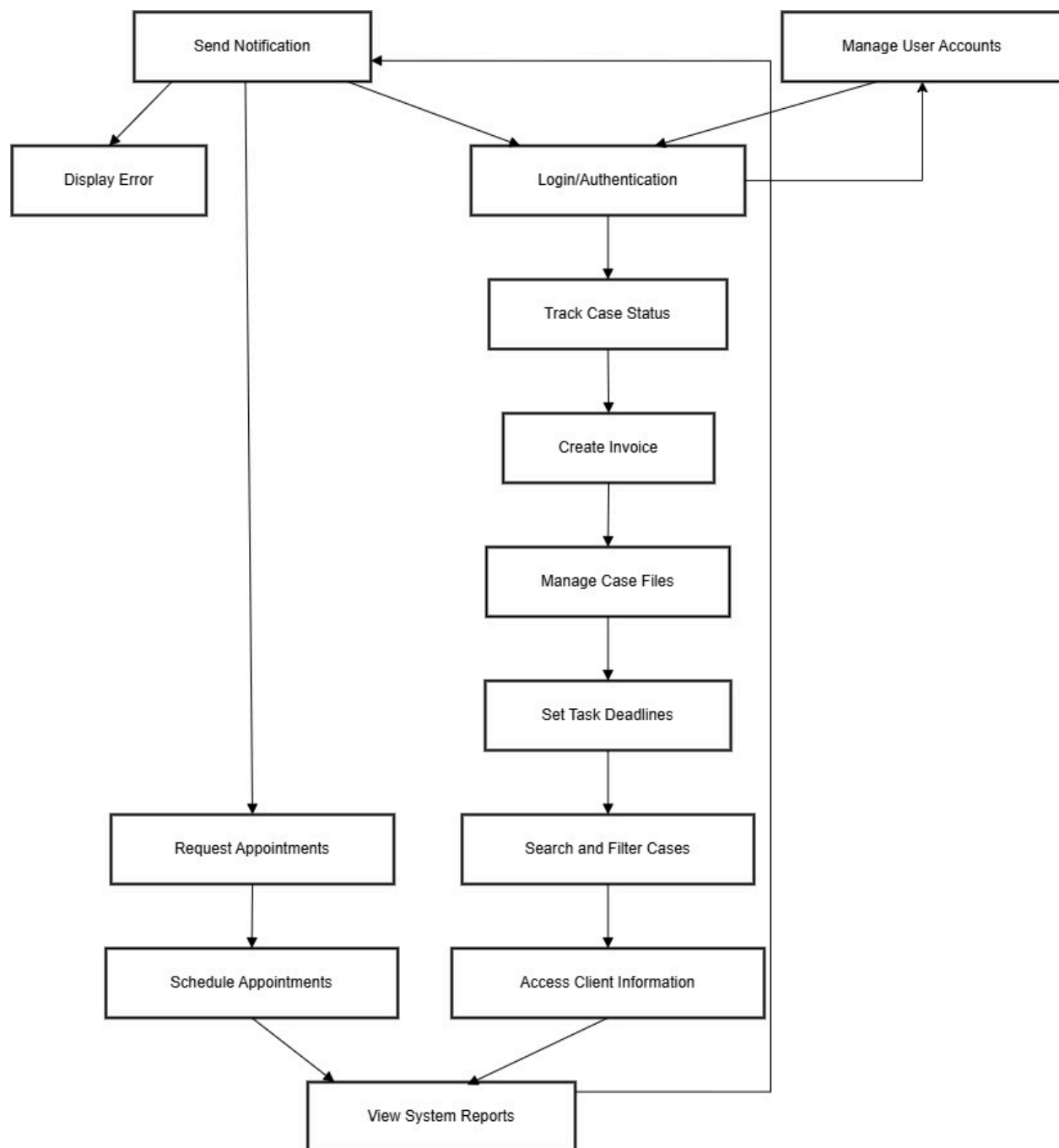


b. Context Diagram



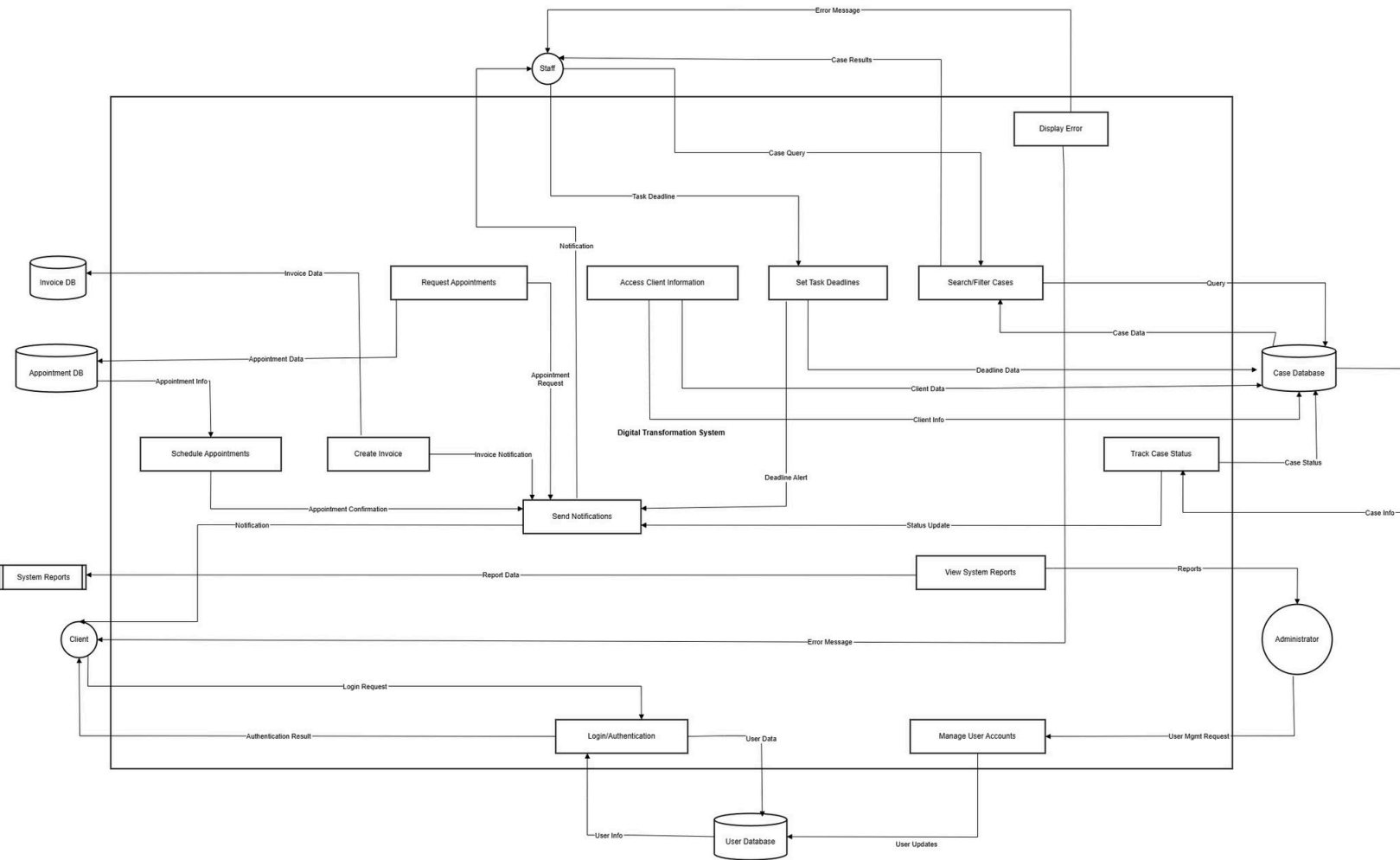


c. Data Flow Diagram (DFD) Level 1





d. Data Flow Diagram (DFD) Level 2





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Significance of the Study

Effective case management is crucial for ensuring efficiency, accuracy, and seamless collaboration in legal operations. However, many law firms still rely on manual processes, leading to inefficiencies, missed deadlines, and security risks. This study focuses on developing a web-based case management system for F&M Law Firm, aiming to modernize legal workflows through digital solutions. Additionally, it provides valuable learning opportunities for students and serves as a foundation for future research in legal technology.

For F&M Law Firm, the primary beneficiary, this system transforms traditional legal operations by digitizing case management. It provides centralized and secure storage for legal documents and client records, introduces automated scheduling and deadline tracking, and enables real-time collaboration among legal teams. Clients also benefit from a dedicated portal for case updates and communication, significantly enhancing service quality and overall operational efficiency.

For students, this project offers hands-on experience in software development, allowing them to apply their knowledge in database design, system integration, and Agile development methodologies. By working on a real-world legal system, students improve their technical and problem-solving skills while also developing essential competencies in project management, teamwork, and professional communication—preparing them for careers in technology-driven industries.



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For future researchers, this study serves as a valuable reference for further advancements in legal technology. It documents the challenges and solutions encountered in developing a case management system, providing insights into the digital transformation of legal practice. Additionally, it lays the groundwork for future innovations, such as the integration of artificial intelligence (AI) and machine learning, to further optimize legal workflow automation.

Definition of Terms

- Appointment Scheduling – A feature in the system that allows clients and lawyers to set and manage legal meetings easily.
- Case Management System – A digital tool that helps law firms organize case files, client details, and schedules in one place.
- Case Tracking – A feature that lets users check the progress of legal cases in real-time.
- Client Portal – A secure online space where clients can view case updates, upload documents, and book appointments with their lawyers.
- Database Management – A system that safely stores and organizes legal files, client records, and important documents.



- Document Management – A feature that allows users to store, find, and protect legal documents within the system.
- Encryption – A security method that keeps sensitive legal data safe from unauthorized access.
- Legal Compliance – Ensuring the system follows laws and rules that protect client privacy and data security.
- Mock Data – Fake but realistic information used to test the system without exposing real client details.
- Role-Based Access Control – A security feature that allows different levels of access based on a person's role (e.g., lawyers can see case files, but clients can only see their own cases).
- Sorting and Filtering – Tools that help users quickly find case files, client records, or documents by specific details like case type, date, or status.
- User Authentication – A security process where only authorized people (like lawyers, clients, or administrators) can log in using a username and password.
- User-Friendly Interface – A design that makes the system easy to navigate and use for everyone.



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- Web-Based System – A system that works through a web browser, so users don't need to install anything on their devices.
- Workflow Optimization – Improving how legal work is done by reducing manual tasks and automating processes to save time and effort.