



International Journal of Innovative Research in Science Engineering and Technology (IJIRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)



Impact Factor: 8.699

Volume 15, Issue 2, February 2026

Online Court Case Management System

Asabe Sakshi, Ghodake Kavyashree, Bhagat Pranoti, Sawant Shubhangi, Prof. Sakshi Shivsharan

Student, Department of Computer Technology, Karmayogi Institute of Technology, Pandharpur, India

Student, Department of Computer Technology, Karmayogi Institute of Technology, Pandharpur, India

Student, Department of Computer Technology, Karmayogi Institute of Technology, Pandharpur, India

Student, Department of Computer Technology, Karmayogi Institute of Technology, Pandharpur, India

Professor, Department of Computer Technology, Karmayogi Institute of Technology, Pandharpur, India

ABSTRACT: The Online Court Case Management System is a centralized web-based platform designed to digitalize and simplify court operations for advocates and judges. The system enables advocates to register cases, upload and access legal documents, view detailed case information, track hearing schedules, and manage witness and evidence records efficiently. Judges can review case histories, examine submitted files, update case status, and schedule hearings through a secure interface. By maintaining all data in a unified database with role-based access control, the system ensures confidentiality, accuracy, and organized record management. It reduces paperwork, minimizes delays, improves communication between legal stakeholders, and enhances transparency and efficiency in the overall judicial process.

KEYWORDS: Online Court Case Management System, Case Schedule, Case ID, Advocates

I. INTRODUCTION

The court system is an important part of society as it helps maintain justice and law. Every day, courts handle many cases. As the number of cases increases, managing them using traditional methods becomes difficult. Most courts still use manual and paper-based systems, which take a lot of time and effort. Traditional court management involves maintaining physical files and registers. These methods often lead to problems such as loss of records, delays in case processing, and difficulty in tracking case details. Searching for old case information becomes slow and inefficient, which affects the overall functioning of the court. The Court Case Management System (CCMS) is a digital solution developed to solve these problems. It helps courts store and manage all case-related information in a centralized system. The system maintains details like case registration, parties involved, hearing dates, documents, and judgments. By using CCMS, courts can reduce paperwork, save time, and improve accuracy. Court staff can easily update case details and schedule hearings, while judges can quickly access case information. The system is user-friendly and improves efficiency and transparency in court operations. In conclusion, the Court Case Management System makes court work easier, faster, and more organized, helping courts deliver justice in a timely manner. The Court Case Management System (CCMS) is a computerized system designed to improve the efficiency of court operations. It provides a centralized platform where all case related information can be stored and managed securely. The system maintains details such as case registration, parties involved, advocates, hearing dates, documents, and case schedules. This helps keep records organized and easily accessible. By using the Court Case Management System, courts can reduce paperwork and minimize human errors. Routine tasks like case registration, updating case status, and scheduling hearings can be done quickly and accurately. Judges and court staff can access complete case information at any time, which supports better decision-making and faster case resolution. In many courts, case management is done using manual and paper-based methods. Case details are written in registers, and documents are stored in physical files. These traditional methods often result in problems like loss of records, delays in case processing, difficulty in tracking case history, and lack of transparency. Finding old case files or checking the status of a case takes a lot of time, which slows down the judicial process. The system is designed to be user-friendly, so it can be used easily by court staff without advanced technical knowledge. Secure login and controlled access help protect sensitive case information. Overall, the Court Case Management System makes court administration more efficient, transparent, and reliable. To overcome these challenges, the Court Case Management System (CCMS) has been developed as a computerized solution for court administration. It is designed to simplify and organize the entire case management

Volume 15, Issue 2, February 2026**|DOI: 10.15680/IJIRSET.2026.1502091|**

process. The system provides a centralized platform where all information related to a case can be stored digitally. This includes case registration details, parties involved, advocates, hearing schedules, documents, and judgments. Storing information in digital form makes records more organized and easy to access.

II. LITERATURE SURVEY

Various studies on e-governance and digital judicial systems highlight the importance of using Information and Communication Technology (ICT) to improve the efficiency and transparency of court operations. Research on e-Courts and case management systems shows that digitizing processes such as case filing, scheduling, document management, and status tracking significantly reduces paperwork, delays, and human errors. Several existing systems demonstrate the benefits of centralized databases and online access for judges, lawyers, and litigants, while also emphasizing the need for strong security and role-based access control. However, challenges such as limited accessibility, data security concerns, and lack of integration still exist in many traditional systems. Based on these findings, the proposed Online Court Case Management System (OCCMS) aims to provide a secure, efficient, and user-friendly platform to modernize court case handling and enhance judicial administration.

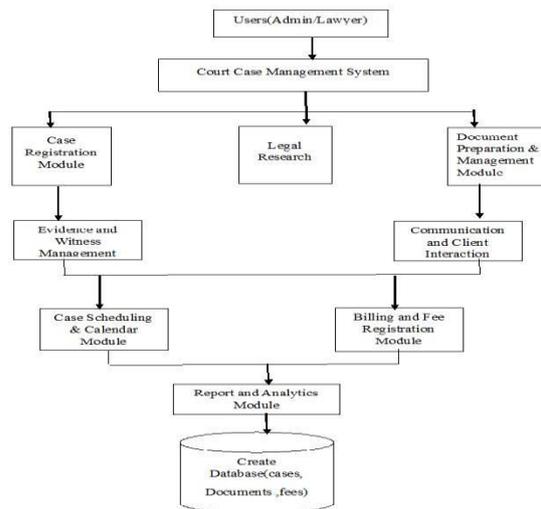
III. METHODOLOGY

The development of the Online Court Case Management System (OCCMS) follows a systematic approach based on the Software Development Life Cycle (SDLC). Initially, requirements were collected by analyzing existing court processes and identifying the needs of different users such as administrators, judges, lawyers, and litigants. After requirement analysis, the system design was prepared, including database design, system architecture, and user interface layout. The system was then developed using appropriate programming languages and database technologies to ensure secure data storage and efficient performance. Role-based authentication and authorization mechanisms were implemented to maintain confidentiality and controlled access. Following development, thorough testing was conducted, including unit testing, integration testing, and system testing to ensure reliability and error-free operation. Finally, the system was deployed and evaluated to verify that it meets the objectives of improving efficiency, transparency, and accessibility in court case management.

IV. OBJECTIVE

1. To digitalize court processes by enabling online case registration, document submission, and record management to reduce manual paperwork.
2. To improve efficiency in case handling by providing real-time access to case details, hearing schedules, witness information, and evidence records.
3. To enhance transparency and accountability by maintaining a centralized database accessible to authorized advocates and judges.
4. To ensure secure data management through role-based access control and protected storage of sensitive legal information.

V. BLOCK DIAGRAM



VI. ADVANTAGES

Improved Efficiency: Automates routine tasks like case registration, scheduling, and document management, significantly reducing manual workload and speeding up court processes.

Better Accessibility: Enables judges, lawyers, and court staff to access case information and documents anytime and anywhere, promoting remote work and reducing the need for physical presence.

Enhanced Transparency: Provides clear tracking of case progress, schedules, and billing, helping all stakeholders stay informed and reducing chances of manipulation or delays.

Cost Savings: Reduces paperwork, postage, and physical storage needs, lowering overall operational costs for courts.

Environmental Benefits: Less reliance on paper documents contributes to eco-friendly, sustainable court operations.

VII. APPLICATIONS

1. Registering and tracking court cases
2. Storing and managing legal documents.
3. Scheduling court hearings and sending reminders.
4. Performing legal research using case laws and regulations.
5. Communicating between lawyers, clients, and court staff.
6. Managing fees, fines, and payments.
7. Generating reports and analytics on cases.
8. Organizing evidence and witness information.

VIII. CONCLUSION

The Online Court Management System (OCMS) provides a modern solution to the challenges of traditional court administration. By automating case registration, scheduling, document management, and communication, it improves efficiency, reduces errors, and ensures timely access to case information. The system enhances transparency, security, and accessibility for judges, lawyers, and litigants, while minimizing paperwork and operational costs. Overall, OCMS

streamlines court processes, supports informed decision-making, and contributes to faster, organized, and more reliable delivery of justice.

IX. ACKNOWLEDGEMENTS

It is with profound sense of gratitude that I acknowledge the constant help and encouragement from our Project guide & Mentor Prof. Shivsharan S.V., Head of Computer Technology department Prof. Mr.Ghalame.S.S. , hon. Principal Dr. Kanase.A.B. and whole hearted thanks to my family .This is to acknowledge and thanks to all individuals who played defining role in creating this work.

REFERENCES

- 1) Sharma, R., and Gupta, S. "Design and Implementation of Online Court Management System." *International Journal of Computer Applications*, Vol. 180, No. 45, 2018.
- 2) Patel, A., and Desai, P. "E-Court System: A Step Towards Digital Judiciary." *International Conference on Emerging Trends in Engineering and Technology (ICETET)*, IEEE, 2019.
- 3) Kumar, V., and Singh, R. "Automated Case Management System for Courts." *Journal of Legal Technology & Innovation*, Vol. 2, No. 1, 2020.
- 4) Raj, M., and Thomas, J. "Online Court Management System Using Web Technology." *International Journal of Advanced Research in Computer Science*, Vol. 8, No. 3, 2017.
- 5) Kaur, H., and Verma, N. "Digital Transformation in Judiciary: Online Court Management Systems." *Proceedings of International Conference on Computing, Communication and Automation (ICCCA)*, IEEE, 2021.
- 6) Singh, A., and Verma, P. "Web-Based Court Case Management System: Architecture and Implementation." *International Journal of Computer Science and Mobile Computing*, Vol. 9, No. 4, 2021.
- 7) Das, K., and Roy, S. "E-Judiciary: Design and Development of a Digital Court Case System." *International Conference on Smart Digital Environment (ICSDE)*, IEEE, 2022.
- 8) Li, X., and Zhao, Y. "Cloud-Based Court Case Management and Scheduling System." *Journal of Legal Technology and Innovation*, Vol. 4, No. 2, 2023.
- 9) Ahmed, F., and Khan, M. "Security Analysis of Web-Based Legal Case Management Systems." *International Journal of Network Security & Its Applications*, Vol. 14, No. 5, 2022.
- 10)Zhang, L., and Chen, H. "Improving Judicial Efficiency through Case Management Software." *Proceedings of the 2023 International Conference on Digital Government Research (DG.O)*, ACM, 2023.

BIOGRAPHY



Ms. Kavyashree Bharat Ghodake currently studying in the final year Diploma in Computer Technology at Karmayogi Institute of Technology Shelve Pandharpur.Her areas of interest are Software Testing, Cyber Security and Data Science.



Ms. Sakshi Dnyaneshwar Asabe currently studying in the final year Diploma in Computer Technology at Karmayogi Institute of Technology Shelve Pandharpur.Her areas of interest are Software Development, Software Testing, Cyber Security and Data Science.

Volume 15, Issue 2, February 2026**|DOI: 10.15680/IJIRSET.2026.1502091|**

Ms. Pranoti Vasant Bhagat currently studying in the final year Diploma in Computer Technology at Karmayogi Institute of Technology Shelve Pandharpur. Her areas of interest are UI UX design, Web development.



Ms. Shubhangi Uttreshwar Sawant currently studying in the final year Diploma in Computer Technology at Karmayogi Institute of Technology Shelve Pandharpur. Her areas of interest are Software Development, Software Testing, Java Web Development.



Ms. Sakshi Vikas Shivsharan is currently working as Lecturer in Karmayogi Institute of Technology Shelve Pandharpur. She pursued Graduation degree BTech (Computer Science and Engineering) from Punyashlok Ahilyadevi Holkar Solapur University, Maharashtra, India-411028. Her area of interest is Artificial Intelligence, Computer Networking, and Data Science.



INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA



INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN SCIENCE | ENGINEERING | TECHNOLOGY

 9940 572 462  6381 907 438  ijirset@gmail.com



www.ijirset.com

Scan to save the contact details