A Project Report On

E-Attendance
(Attendance Management System)

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CERTIFICATE

This is to certify that the practical/term work carried out in the subject of Advanced Technologies (23CE520) and recorded in this report is the bonafide work of

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Introduction

- Problem Definition
- Project Objective(s)
- Scope of the Project

System Requirements

1 Hardware Requirements

- Minimum and Recommended system configuration

2 Software Requirements

- OS, Node.js version, MongoDB, React/Angular, Express
- Other libraries/tools used (e.g., Mongoose, Postman, VS Code)

System Design

- **Architecture Diagram** (client-server flow)
- **ER Diagram / Database Schema**
- **Wireframes / UI Design** (if applicable)

Implementation

- **Frontend Development**
    - (React / Angular) Components, Routing, State management
- **Backend Development**
    - Express API routes, Middleware, Authentication (JWT, Passport, etc.)
- **Database**

    - MongoDB schema & collections
- **Integration**
    - Connecting frontend, backend, and database

(Code snippets with explanations can be added here)

Results & Output Screenshots

- Screenshots of UI pages (Login, Dashboard, CRUD operations)
- Sample API responses
- Database entries

Testing (if performed)

- Unit Testing (frontend/backend)
- API testing (Postman/Thunder Client)
- Debugging and Error handling

Limitations

- Current shortcomings of the project
- Technical or resource constraints

Future Enhancements

- Features to be added in future versions
- Scalability improvements (e.g., cloud deployment, microservices)

Conclusion

- Summary of learnings
- Experience gained in working with MERN/MEAN stack

References

- Books, research papers, tutorials, documentation links, GitHub repos