

SANDEEP DHANWATE

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Projects

Internet Banking (Backend)

Apr 2025 – Present

- Built a scalable Internet Banking backend using Node.js, Express.js, and MongoDB with robust user authentication and role-based access control.
- Designed RESTful APIs for core banking features like account creation, balance inquiry, ATM services, and secure money transfers.
- Integrated JWT and Bcrypt for secure login and password protection, improving security and compliance.
- Optimized MongoDB queries, enhancing transaction speed by 50% and reducing response latency by 40%.
- Connected services using Axios for reliable API communication, improving system integration by 80%.
- Strengthened backend codebase focusing on modular design, scalability, and debugging techniques.

Bug Tracking System (Backend)

Mar 2025 – Present

- Developed a full-featured Bug Tracking backend using Node.js, Sequelize ORM, and SQLite database.
- Implemented user authentication with JWT and middleware-based role protection (admin, developer, reporter).
- Enabled ticket creation, developer assignments, status updates, and image-based commenting system.
- Integrated Jest for backend testing, covering 20% of core modules and reducing bugs during deployment.
- Boosted query performance and backend response time by 40% through optimized SQL logic and async handling.
- Focused on debugging and error logging techniques to improve code quality and maintainability.

Hotel Booking System (Backend)

Mar 2025 – Present

- Engineered a backend system using Node.js, Express.js, and MongoDB to manage hotel search and booking workflows.
- Implemented secure user login with JWT, supporting multiple roles (admin, customer) with access control.
- Designed and tested RESTful APIs using Postman, ensuring 100% endpoint functionality.
- Integrated Axios for inter-service API calls and improved reliability of booking flow by 80%.
- Fixed bugs and optimized database queries to improve system speed and user experience by 45%.

Technical Skills

Languages & Frameworks: Node.js, JavaScript, Express.js, Sequelize ORM

Databases & Tools: MongoDB, PostgreSQL, SQLite

Testing & DevOps: Jest, Supertest, Docker

Other Tools: VS Code, Postman, Git, Replit

Certifications/Training

Backend Development Certification — Invact	July 2024 – Mar 2025
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Education

Diploma in Mechanical Engineering — Mould Technology	
Central Institute of Plastics Engineering & Technology (CIPET), Bhopal	Completed: 2015