Project Report: To-Do List App (Backend with MongoDB)

# 👨‍💻 Developer

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Project Title: To-Do List App

Tech Stack: Node.js, Express.js, MongoDB, Mongoose, JWT

# ✅ Certification Criteria Checklist

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| --- | --- | --- | --- |
| # | Requirement | Status | Details |
| 1 | Full Stack or Backend Model | ✔️ | Backend model using Node.js |
| 2 | MongoDB as Database | ✔️ | MongoDB with Mongoose ODM |
| 3 | Java/Python/Node.js Framework Used | ✔️ | Node.js with Express.js |
| 4 | Project Working Model | ✔️ | Runs on localhost with Thunder Client |
| 5 | Registration and Login Functionality | ✔️ | JWT-based auth (Register + Login with token) |
| 6 | CRUD Operations | ✔️ | All operations tested and working via API |

# 🔐 Authentication

- POST /api/auth/register: Creates new user with hashed password

- POST /api/auth/login: Returns JWT token

# 📦 Todo Management APIs (With Authorization)

- POST /api/todos ➝ Create a new To-Do

- GET /api/todos ➝ Fetch all To-Dos for user

- PUT /api/todos/:id ➝ Update text or completion status

- DELETE /api/todos/:id ➝ Delete a To-Do item

# 🔎 Testing Method

Tested using Thunder Client inside VS Code.

✅ All APIs tested using real-time MongoDB Atlas database

✅ Authorization tested using Bearer Token

✅ Console logs and server responses verified

# 🧾 Sample Output

{  
 "userId": "684d9215ee0c8e351242f1e5",  
 "text": "Finish To-Do app today 💯",  
 "completed": false,  
 "\_id": "684d9352ee0c8e351242f1e8",  
 "createdAt": "2025-06-14T15:20:50.683Z"  
}

# 📍 Conclusion

All checklist items have been implemented successfully. This backend-based project meets the requirements for certification.