Success Planner Backend – Full & Extended Development Plan (2025)

Project Overview

Success Planner \square \square productivity app \square \square \square personal users \square \square admin \square \square \square \square \square \square \square \square
\square \square \square \square \square authentication, user/admin roles, \square planners (yearly, monthly, weekly,
todo) 🗆 modules 🗆 🗆 🗆 🗆 🗆 🗆 🗆 🗆 future-ready modules 🗆 add 🗆 🗆 🗀
□□□□□□ notifications, file uploads, and activity logs □

Technologies Used

- Node.js Backend runtime
- Express.js Routing & server
- MongoDB + Mongoose NoSQL Database
- JWT + cookie-parser Authentication via tokens
- bcryptjs Password encryption
- Zod Input validation
- Nodemailer OTP/Email for password reset
- Cloudinary Image uploads
- Helmet, CORS, Rate Limiting Security
- dotenv Config management

Modules Breakdown

- Auth: Register, Login, Logout, OTP-based Reset, Email Verification
- Role Management: User can switch to/from Admin
- Dashboard: Yearly, Monthly, Weekly planner + To-Do List (Doing/Done)
- Admin Panel: Total users, stats, role control (only admin access)
- User Profile: Avatar update, profile data, switch role
- Notifications: Task reminders via Email
- Task History & Logs: User actions log for review
- File Uploads: Upload personal notes or planner-related documents

Development Steps

- 1. 1. Project initialize (npm init)
- 2. 2. Folder structure setup (as per plan)
- 3. 3. MongoDB connect (config/db.js)
- 4. 4. user.model.js □□□□□ (role, password, avatar)

 5. Auth: register/login/logout (JWT cookie-based) 6. Middleware auth, role, error 7. switchRole API auth, role, error 8. Admin route (/admin/data) auth, role) 9. Dashboard planner: model, controller, routes 10. Notifications system: reminders via email 11. File Uploads setup using Cloudinary 12. Task Logs module for tracking 13. Zod validation ainput at 14. 14. Security: Helmet, Rate Limit, JWT secure 15. Postman at test at 16. Deploy at 16. 16. Deploy authors
Security Checklist
JWT in secure, HTTPOnly cookies
Zod validations for all user input
Bcrypt hashed passwords
Role switch only by authenticated users
 Role-based route protection (restrictTo("admin"))
• CORS + Helmet + Rate Limit enabled
Email verification before role-switch
Cloudinary upload security using signed URLs
∜Final Notes
□□□□□□ services/controller □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
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authorized sections based on role based on role based on role
auth \rightarrow middleware \rightarrow role \rightarrow dashboard \square Notifications, file uploads, \square history logs future
SaaS feature