Technical Specification Document (TSD) Project Name: Matty - Online Graphic Design Tool Prepared By: GNCIPL (Global Next Consulting India Pvt Ltd) Date: 2 August 2025 Tech Stack -----Layer Technology -----Frontend React.js, Redux, TailwindCSS, react-konva Backend Node.js, Express.js Database MongoDB Atlas Auth JWT (OAuth planned: Google/Facebook) Storage Cloudinary (image hosting) Hosting Vercel (frontend), Render (backend) Frontend Component Tree _____ <App /> <AuthContextProvider /> <Router> /login -> <Login /> /register -> <Register /> /editor -> <EditorCanvas /> /dashboard -> <MyDesigns /> API Documentation Method Route Function

POST /api/auth/register Register new user

POST /api/auth/login Login & return JWT

GET /api/designs Fetch all user designs

POST /api/designs Save new design

PUT /api/designs/:id Update design

DELETE /api/designs/:id Delete design

Notes

- JWT is used for secure authentication.
- jsonData of design is stored in MongoDB with userId and optional thumbnailUrl.
- Images are stored on Cloudinary.
- Canvas is built using react-konva or fabric.js.