

Frontend (React + TypeScript) File Structure Explanation

File / Folder	Purpose	How it is Related to Others
src/main.tsx	Application entry point. Mounts React app to DOM.	Loads App.tsx and attaches it to index.html
src/App.tsx	Main application component. Defines routes.	Connects all pages using React Router
src/pages/Login.tsx	User login UI and logic.	Calls backend /auth/login API
src/pages/Signup.tsx	User registration UI.	Calls backend /auth/signup API
src/pages/ForgotPassword.tsx	Collects email for password reset.	Calls backend /auth/forgot-password API
src/pages/ResetPassword.tsx	Allows user to reset password.	Calls backend /auth/reset-password API
src/pages/MainApp.tsx	Main document upload and Q&A UI.	Calls /upload and /ask APIs
src/pages/AdminDashboard.tsx	Admin-only dashboard.	Calls /admin/stats API
src/assets/	Static files like images/icons.	Used by page components
public/index.html	Base HTML template.	React app is injected here
vite.config.ts	Vite build and dev server config.	Used by Vite to run and build app
tsconfig.json	TypeScript compiler settings.	Controls TS behavior across project
package.json	Project dependencies and scripts.	Used by npm to run/build app
README.md	Project documentation.	Explains setup and usage