

Neelikon test

Doc No: s-103 | Rev: 3 | Date: 12/12/2025

prepare a prototype (flow + structure) for a Document Management System (DMS) based on your detailed workflow (Creator Approver Issuer Controlled Access). -System Flow Chart (process steps) -Module-wise Functionality (dashboard, upload, approval, issuance, access control)-Database Design (sample schema)-User Role Permissions-Technology suggestion for development

Creator Login Fill Doc Info (ag fields)

Upload Word Doc (No header/footer) Send to Approver (Notify)

Approver reviews doc (with header/footer) Approve Document

Decline (add remark) Add remarks,

Goes back to Creator select sharing dept. Send to Issuer (MR) Issuer reviews

doc (header/footer) Issue Final Copy Decline (add remark) Add

Issue remark Goes back to Creator Convert to PDF (Final) Auto

Notify All Users Assign Control Copy NosUsers View/Print Controlled PDF only (No download, traceable by User

ID)-----Responsibility: Module-Wise
Functional Prototype PlanRoleFeaturesCreatorCreate new document entry, upload Word doc, view pending/returned docs, resubmitApproverView pending approvals, open doc (auto header/footer), approve/reject, add remarks, assign departmentsIssuer (MR)View approved docs, issue/reject, add final remark, track issued documentsUser/RecipientView issued documents (PDF only), print with control footerAdminManage users, roles, departments, track logs, export reportsThere is some conditions: -Auto reminders for revision (based on due period)-Comparison tool (old vs. revised doc)-Version history tracking-Export to Excel logs (per user or document)-QR code footer for

authenticity-----About Database table

need:usersColumnTypeDescriptionuser_idINT (PK)Unique usernameVARCHARUser
nameroleENUM('Creator','Approver','Issuer','User','Admin')RoledepartmentVARCHARDept
nameemailVARCHARNotification documentsColumnTypeDescriptiondoc_idINT
(PK)Unique documentdoc_nameVARCHARSOP/Format namedoc_numberVARCHARUnique
doc codedate_of_issueDATEIssue daterevision_noINTRevision
countdue_period_yearsINTReview reminderprepared_byINT (FK)Creator
IDreason_revisionTEXTRevision reasonfile_pathVARCHARUploaded
filestatusENUM('Pending','Approved','Declined','Issued')Current statusapprover_idINT
(FK)Assigned approverissuer_idINT (FK)Assigned issuer
document_logColumnTypeDescriptionlog_idINT (PK)Log entrydoc_idINT (FK)Related
documentuser_idINT (FK)Who performed actionactionVARCHARCreated, Approved,
Declined, IssuedremarksTEXTAction remarksdate_timeDATETIMESTAMP

document_accessColumnTypeDescriptiondoc_idINT (FK)Documentuser_idINT
(FK)Recipientcontrol_copy_noVARCHARAuto serial copy no.view_accessBOOLEANCan view PDFprint_accessBOOLEANCan print PDFprint_dateDATETIMETrack printed date FeatureCreatorApproverIssuerRecipientAdminCreate DocApprove DocIssue DocView PDF (Issued only)View Previous Revisions (Master copy)Export LogsLayerTechnologyFrontend (Web UI)React.js / Next.js (with Role-based Dashboard)Backend APINode.js (Express) or ASP.NET CoreDatabasePostgreSQL / SQL ServerFile StorageLocal folder or AWS S3 / Supabase StorageNotificationsEmail + In-app popup via Socket.io or Supabase RealtimeDocument ConversionLibreOffice / Word API PDF (with watermark + control footer)Audit LoggingAutomatic via middleware (store all user actions)