

Neelikon test

Doc No: s-102 | Rev: 2 | 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

Module	Functionality	Database Design	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 departments/Issuer (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 reports

There 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
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name role ENUM('Creator','Approver','Issuer','User','Admin') Role department VARCHAR(20) Dept
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nameemailVARCHARNotification	documentsColumnTypeDescriptiondoc_idINT
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(PK)Unique documentdoc_nameVARCHARSOP/Format namedoc_numberVARCHARUnique

doc codedate_of_issueDATEIssue daterevision_noINTRevision

countdue_period_years|INT|Review reminder|prepared_by|INT (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_timeDATETIMETimestamp

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)