Introduction

- My name is Askhat Samuratov. I have been working as engineer in aviation industry for more than 7 years. My main responsibility at work is conducting investigation of aviation occurrences and accidents with respect to technical side of aircraft and actions of aircraft maintenance personnel.
- First experience with programming language was scripts written in Excel VBA.
- In my free time, I like learning programming, reading books and long runs.

Document Management System (DMS)

DMS is designed to allow the organization to manage company documentation and its accessibility to all company employees

EMPLOYEE MANAGER

Main functionalities of DMS

ADMIN

Log in to DMS
To create user accounts
To change own account's password
To edit user account details
Create new document

Add new revision to document

Search for document

Edit document details

View/download document

Validate new revision of document

See user/document transactions

Make comment to document

Used technologies













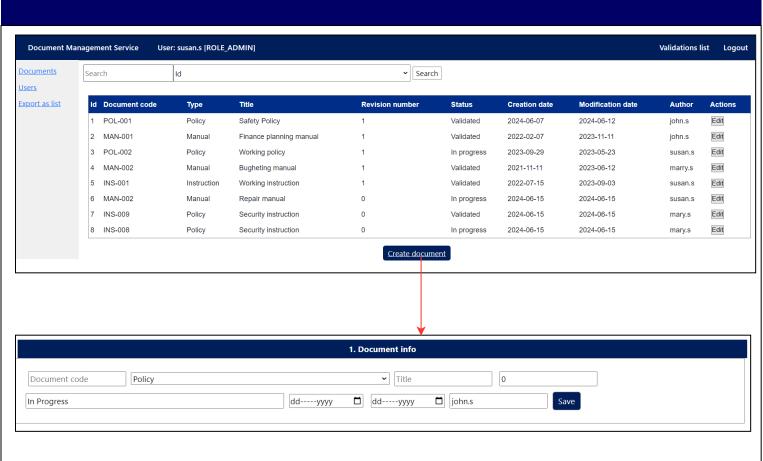




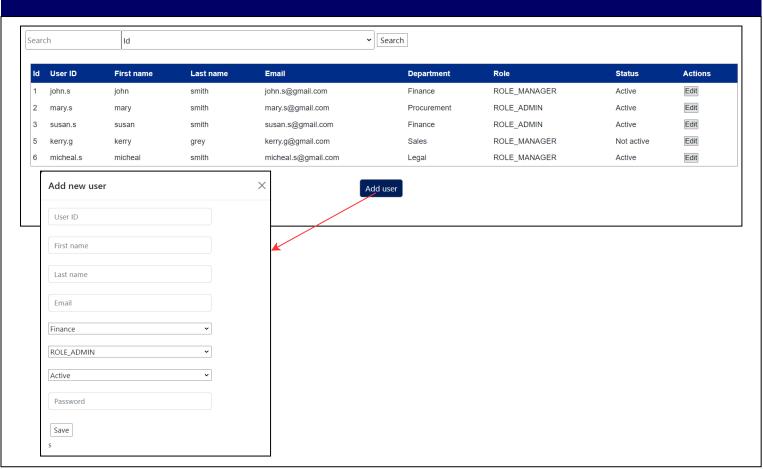




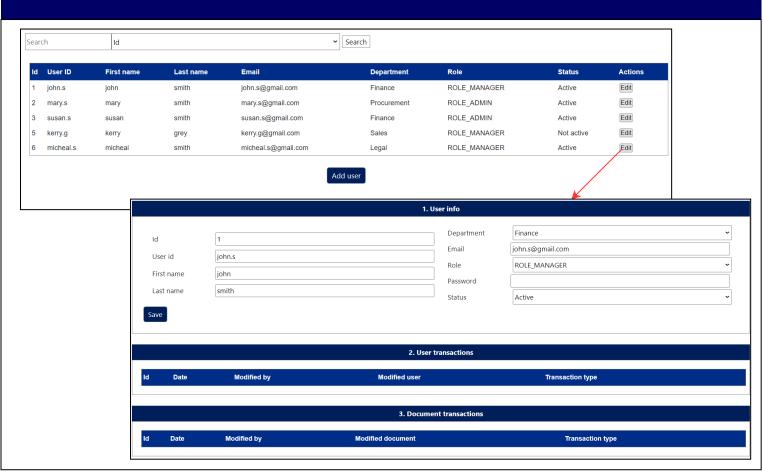
DMS documents browse and add document function



DMS users browse and add user function

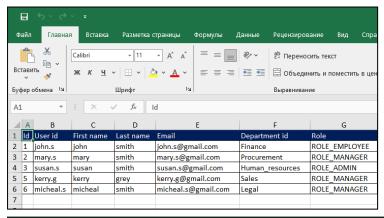


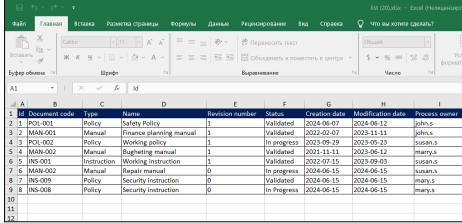
DMS users edit function



DMS list of user/document export function

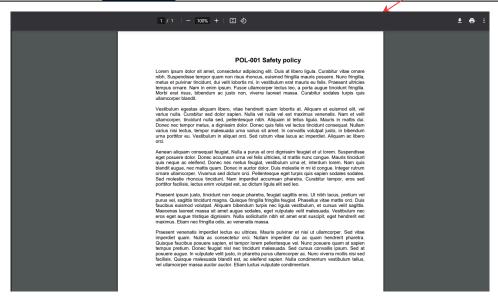
Documents Users Export as list



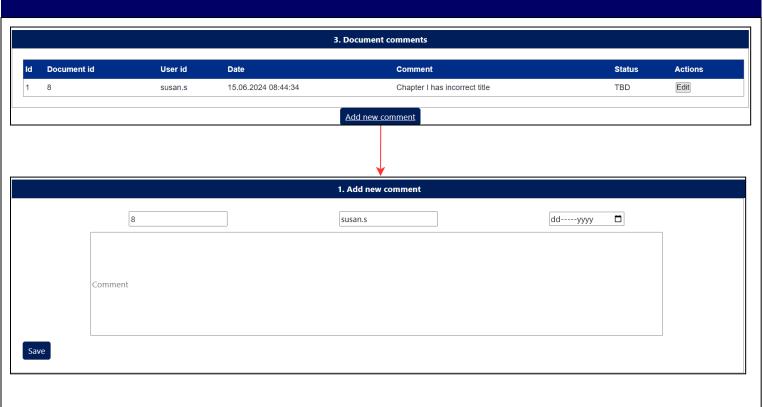


DMS document download/view function

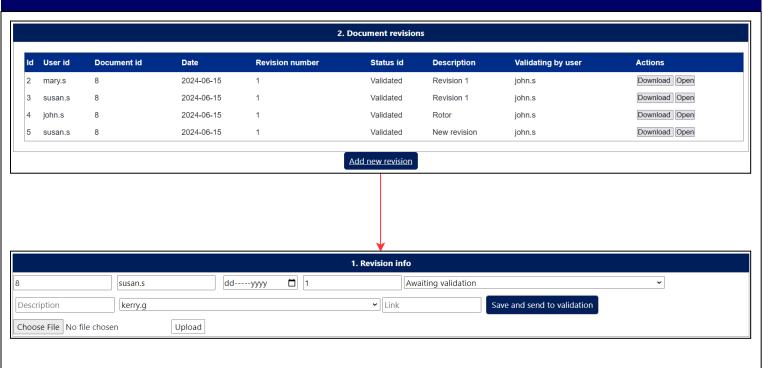
2. Document revisions								
ld	User id	Document id	Date	Revision number	Status id	Description	Validating by user	Actions
2	mary.s	8	2024-06-15	1	Validated	Revision 1	john.s	Download Open
3	susan.s	8	2024-06-15	1	Validated	Revision 1	john.s	Download Open
4	john.s	8	2024-06-15	1	Validated	Rotor	john.s	Download Open
					Add new revision			



DMS add comment to document function



DMS add document revision validation



DMS document revision validation

Validations list (+1) Logout

					<u> </u>		
ld	Document code	Document id	Name	Revision number	Author	Status	Actions
2	INS-008		Security instruction	1	john.s	Validated	Edit
3	INS-008		Security instruction	1	john.s	Validated	Edit
4	INS-008		Security instruction	1	john.s	Validated	Edit
5	INS-008	8	Security instruction	1	john.s	Awaiting validation	Edit

1. Validation info				
Id	5			
Document Code	INS-008			
Name	Security instruction			
Revision number	1			
Author	john.s			
Status	Awaiting validation ~			
Open attachment		<i>'</i>		
Save				
	Add new comment			

Functions/improvements to be introduced into next version of DMS

- Improvement of user interface
- Add feature to change user interface to other languages
- Sharing link to the document with external users
- Forgot password function for users using email
- Email notifications to user about account creation
- Email notification to user about request for validation of document
- Email notification to user about new revision of document
- . Sorting/filtering button on "Documents browse" and "Users browse" page
- Administration page for adding new categories (Role, Document types, Document statuses)
- Function for filtering list of documents/user before export
- Function for adding digital signature to document
- Function for exporting list of document/user transactions
- Function for reply to comments added to document
- User account logout after certain period of inactivity
- REST API endpoints page for third party integration
- Add deadline for document validation by responsible person
- Handling incorrect input from user / input validation
- Add tutorial page on basic functions of DMS (maybe video)
- · Implement page pagination
- Add restriction to revision validation: revision author cannot validate its own revision request,
- · Add exception handling in service layer.
- Record the logger data into the file
- Make document code to be created automatically depending of document type and the next available number (POL-002, POL-003 and etc).
- More test coverage (unit and integration);
- Correct tests name convention
- Use DTO for all operations in controller (POST and GET)