SpoolFAB

SpoolFAB, aplicatie destinata producerii documentatie de executie spool-uri in atelierul de tevi.

Arhitectura software este formata din mai multe module integrate intr-o singura aplicatie conectata la un server baze de date SQL



Administare

La prima pornire a aplicatiei , aplicatia va afisa fereastra pentru introducerea datelor de conexiune , locatie server si port de comunicare. Aplicatia trebuie sa poata comunica prin port cu serverul SQL, ceea ce implica ca portul sa nu fie blocat de firewall si nici aplicatia.

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oolf oolf	MySQL server name : 127.0.0.1	
oolf oolf	Port : 3306	
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Se apasa butonul Ok si se inchide aplicatia.

Se porneste aplicatia , iar aceasta se conecteaza la serverul SQL si isi genereaza baza de date si tabelele de resurse necesare ala aplicatiei. Numele bazei de date este **spoolfabricationdb.** Prin urmare toate tabelele din aceastea baza de date vor avea numele complet de forma :

spoolfabricationdb.numetabel

Dupa introducerea datelor de conectare userul se poate conecta cu user name-ul admin si parola data de numele userului curent windows.

Observatie: Aplicatia se poate connecta si la un server Microsoft SQL Server

Mai jos parametri de conexiune ca exemplu din fisierul ini Daca database este empty baza de date default este utilizata spoolfabricationdb

[Connection] ServerName=86.120.145.43\SQLEXPRESS ServerPort=1433 ServerDataSnapPort=13306 StartSNAPServer=0 databaseName= SQLDriverName=MsSQL sqlUserName=spoolfabrication sqlUserPassword=spoolfabrication2021



In pagina ADMIN vor aparea listate tabele cu resursele aplicatiei



Users : tabel cu definirea userilor

Exista 3 tipuri de useri , 0 admin, 1 designer , 3 production Aplicatia se va configura in functie de tipul userilor.

Adresa de e-mail este mandatorie si trebuie sa fie valida si utilizata de contul curent de Outlook.

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Parola user este data de numele curent al user windows.

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AdminControl: permite definirea de super useri , care vor avea acces la functiile de admin pe proiect

Spool FAB				- 0 ×
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Auto_Update :

Butonul "Add update package file" permite selectarea si stocarea unei versiuni noi ale aplicatie

Butonul "Store file" permite stocarea de fisiere utilizate ca sabloane in aplicatie

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Pipes: tabel cu lista de tevi disponibile in aplicatie . Pentru ca o teava sa existe in aplicatie aceasta trebuie definite in acest tabel

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Certificati	50	60.3	4.5	6.19	6000	STEEL	1209540	2		04f6efe8	6/16/2	02
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	TEAVA PE 63 X 5	,8 ART 193017161	1491/206	PIPE	1.	06						
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Settings : tabel cu variabile setate in aplicatie

Ca regula se pot defini variabile globale sis per proiect , ex: DEPLOY_TO_LOCATION este variabila globala , DEPLOY_TO_LOCATION_12345 este o variabila globala actualizata local pentru proiectul 12345

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Observatie:

Variabile Naming_rule_projectid este utilizata pentru a extrage din numele iso , partea care este utila pentru user . Separatorul | este utilizat pentru a separa separatoarele la stinga si la dreapta.

Ex:

```
lso name="6640L0073_1132.66.8013" version="6.0" sys="6640" pli="6640L0073"
Project="Amels_18804" Rev="A">
```

Utilizez _ .,.	_ este la limita prefix(stanga) , . este utilizat de 2 ori si
defineste limita la dreapta sufix	

```
Iso name="<u>6640L007</u>3_132_66<u>8013</u>" asta inseamna ca numele va fi extras in felul urmator
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```
"6640L0073.8013", iar 1132.66 va sectia si va fi stocata in coloana part_spn care este disponibila la spool.
```

Pentru fiecare proiect exista tabele specifice :

Admin Projects
⊡- Projects
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spools_data
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BendingMachine : tabel cu definitia masinilor utilizate in proiect

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	TRANSFLUID DB 40	115 (w	25	30.0	3.2	-6000,	6000,6	60	60	60	105	6000	0	0	1	0468	79				
	TRANSFLUID DB 40	115 (w	50	60.3	8.74	-6000,	6000,6	121	121	121	150	6000	0	0	1	049f	39				
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Definire factori de alungire .

In tabelul de tevi dblclick pe linie si urmatoarea forma va aparea .

Se introduce valorile lungime inainte de indoire , dupa indoire , numarul de indoituri , ungi de indoire

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Aplicattia va calcula coeficientul de alungire per arc corespunzator unghi de 90.

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Cele doua valori pentru unghi de 90 si 45 vor fi utilizate la interpolare si determinarea valorii alungirii tevii corespunzatoare unghiului curent de indoire.

Activity: tabel cu lista de activitati si datele corespunzatoare

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2	Damen Road Fe	1000041737	Pipe outfitting s 3		5F204PM01 Pipe 11	.05.2020	13.08.2020		037230e5-e6b7	7	7/2/2021 3:02:1	
_	Damen Road Fe	1000041756	Pipe prefabricat 2		5F108PP01 Pipe 04	1.05.2020	04.09.2020		041e9c3d-6457	7.	7/2/2021 3:02:1	
_	Damen Road Fe	1000041758	Pipe prefabricat 3		5F302PP01 Pipe 01	.09.2020	15.10.2020		05c217b9-fd88	-	7/2/2021 3:02:1	
_	Damen Road Fe	1000041757	Pipe prefabricat 9		5F402PP01 Pipe 15	5.06.2020	20.07.2020		0663df15-6c0c	-	7/2/2021 3:02:1	
_	Damen Road Fe	1000041739	Pipe outfitting s 8		5F401PM01 Pipe 29	.06.2020	24.07.2020		0b39dd7d-dcb1	L	7/2/2021 3:02:1	
_	Damen Road Fe	1000041739	Pipe outfitting se 1	0	5F403PM01 Pipe 11	.09.2020	14.09.2020		0f42ad17-e24d	-	7/2/2021 3:02:1	
_	Damen Road Fe	1000041740	Pipe outfitting s 4		5F310PM01 Pipe 09	.10.2020	15.10.2020		1f0f7ce9-da66	-	7/2/2021 3:02:1	
	Damen Road Fe	1000041846	Prefabrication p 1		SFTKB1PP01 Pip 10	.02.2020	23.09.2020		35da8822-6aad	1	7/2/2021 3:02:1	
1	Damen Road Fe	1000041738	Pipe outfitting s 4		5F206PM01 Pipe 14	1.09.2020	23.09.2020		37b45b67-789d	1	7/2/2021 3:02:1	
	Damen Road Fe	1000041740	Pipe outfitting se 1		5F158001PM01 28	8.10.2020	30.10.2020		3b6da097-de3e	2	7/2/2021 3:02:1	
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	Damen Road Fe	1000041736	Pipe outfitting se 2		5F105PM01 Pipe 25	5.03.2020	08.05.2020		407617e4-4c44	ł	7/2/2021 3:02:1	
Ī	Damen Road Fe	1000041757	Pipe prefabricat 1	0	5F403PP01 Pipe 01	.09.2020	15.09.2020		4116b7c3-47dc		7/2/2021 3:02:1	
	Damen Road Fe	1000041757	Pipe prefabricat 6		5F308PP01 Pipe 24	1.08.2020	06.10.2020		42f7df11-6345	-	7/2/2021 3:02:1	
Ī	Damen Road Fe	1000041737	Pipe outfitting s 4		5F205PM01 Pipe 25	5.05.2020	21.08.2020		43092ec5-35fc	-	7/2/2021 3:02:1	
Ī	Damen Road Fe	1000041757	Pipe prefabricat 4		5F306PP01 Pipe 25	5.05.2020	20.07.2020		464b7c7c-c16f	-	7/2/2021 3:02:1	
Ī	Damen Road Fe	1000041737	Pipe outfitting s 1		5F202PM01 Pipe 18	3.05.2020	26.08.2020		4e2b82cc-3c57	4	7/2/2021 3:02:1	
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Ī	Damen Road Fe	1000041757	Pipe prefabricat 7		5F309PP01 Pipe 24	1.08.2020	30.09.2020		570aecf6-266f-	-	7/2/2021 3:02:1	
Ī	Damen Road Fe	1000041739	Pipe outfitting s 5		5F307PM01 Pipe 04	1.08.2020	28.08.2020		65d20a87-032f	¢	7/2/2021 3:02:1	
Ī	Damen Road Fe	1000041737	Pipe outfitting s 2		5F203PM01 Pipe 11	.05.2020	14.08.2020		65eca448-8a31	L	7/2/2021 3:02:1	
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Cateva observatii :

Fereastra utilizata pentru afisarea tabelelor are urmatoarele controale:

CTRL+A , select all

Shift+Arrow down , selectie

Left mouse +CTRL , selectie pe linie

Tasta Delete apasa seterge selectia curenta

Aplicatia lucreaza in mod "Cashed update", ccea ce inseamna ca modificarile sunt facute in tabel local dupa care la apasarea butonului Apply updates sunt transferate pe server(doar ce sa modificat)

Mod de lucru

Aplicatia organizeaza informatia in proiecte si prin urmare inainte de orice actiune trebuie creat un proiect. Aceasta operatiune vac rea si tabelele corespunzatoare , care vor trebui sa fie populate.

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Open table sau dblclick pe numele tabelului il va deschide si userul va avea aces la el.

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Fereastra de proiect este impartita in principal in 3 zone :

a. Zona grid cu preview al inregistrarilor din baza de date

b. Zona tree care arata structura albumelor in baza de date si care este de fapt zona de actiune a userului

- c. Fereastra de mesaje in care aplicatia va afisa mesaje
- In Zona Tree, right click si un popup cu functii este disponibil

SoftCAD Solutions 2021

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Mod de lucru interfata xml spool CADMATIC

Userul poate crea noduri in tree si cu drag and drop(Filter on click debifata) poate defini orice structura de ansambluri.

Ultimul nivel din ansambluri va descrie un album de tevi

Click pe el si daca optiune Filter on click este bifata in grid vor ramane doar lista de spooluir ce apartin acelui album

Pentru a crea un album din fisiere xml produse de Camatic se procedeaza in felul urmator:

- a. Se defineste nodul care descrie albumul in locatia Dorita
- b. Right click pe nodul album si se alege functia Load xml files

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Aplicatia va procesa automat toate aceste fisiere si face urmatoarele actiuni :

- Extrage ruta pentru linie principala si ramificatii
- Asociaza si echivaleaza codurile de material pentru componente
- Asociaza si determina masinili de indoit si calculeaza parametrii de indoire extrage taieturile
- Determina vederea izometrica a spool-ului si asociaza cote, hasuri, etichete puncte definitie ruta

Dupa procesare spoolurile sunt afisate intr-un tree in partea dreapta a ferestri principale

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Click pe oricare din spooluri si aceastea vor fi afisate in SpoolBuilder



Userul poate defini restul de informatii necesare attribute ale spool , poate aranja etichetel interactiv cu mouse buton left

SoftCAD Solutions 2021

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In spool builder userul poate modifica spool-ul dupa caz.

Dupa editarea spoolurilor la apasarea butonul "Store spool to databank", acestea vor fi stocate in baza de date

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Aplicatia verifica daca spool-urile exista de ja in baza de date , si daca exista identic face overwrite , daca exista revizii vechi acestea vor devein obsolete , iar noile revizii devin active. In tot timpul acestui proces de date aplicatia semnaleaza erori sau lipsa de informatii etc. Odata stocate in baza de date orice spool poate fi vazut in SpoolBuilder , daca in tree userul face dblclick pe numele spool.



Export Production Information

Pentru a export documentatie fabricarii spool userul selecteaza albumele, right click si alege functia

Export prod. Info si aplicatia va genera automat schile izometrice, lista de materiale, lista de taieturi si lista de urmarie spool, fisier debitare robot HGG pentru fiecare album in parte

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Urmatoarea actiune a userului este Deploy, care pentru o selectie de albume va schimba statusul curent al spool din baza de date in Ready_For_Production, devin vizibile pentru productie si de asemenea se poate transfera automat fisierele PROD_INFO catre o locatie server disponibila pentru productie.

Mod de lucru SpoolBuilder

SpoolBuilder permite definirea unui spool de catre userul curent si la final poate fi stocat in baza de date , urmand fluxul de mai sus.

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SoftCAD Solutions 2021

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Userul poate defini ruta spool in mai multe moduri :

- 1. Din desen , deseneaza ruta ca o polilinie , ramificatii iar prin selectie aplicatia va extrage coordonatele , vezi meniu Draw
- 2. Se poate importa un fisiere dxf cu polilinii 3d
- 3. Se definesc punctele rutei prin coordinate relative sau absolute

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SoftCAD Solutions 2021

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Flansa adugata la un capat



Observatie . Pentru definirea ramificatiilor acestea trebui sa inceapa din ruta principala.

Integrat in aplicatie exista si un modul AutoSketch pentru editare 2D, similar Autocad LT.

SoftCAD Solutions 2021

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Simboluri in schita

Daca user-ul bifeaza Automatic symbols aplicatia va genera automat simboluri definite intern.

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Daca Automatic symbols nu este bifata atunci aplicatia va utiliza simbolurile define de user si stocate in fisierul dxf symbols.dxf

Un simbol este realizat in felul urmator :

Se deseneaza in 0,0 un patrat cu latura de 10mm , aceasta geometri va fi ca referinta zona de lucru pentru user . In acest patrat se neseneaza simbolul dorit , dupa care se salveaza ca block cu nume de symbol 1,2,3,4,5,.... a.i fiecare block sa defineasca un symbol.

Aplicatia considera symbol doar linii, polilinii, restul de entitati geometrice nu vor fi citite la inserarea simbolurilor

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