

CraneAllocation

CraneAllocation este o aplicatie care gestioneaza alocarea/planificarea macaralelor portal din santier pe intervale orare pe o perioada de 24 ore.

Aplicatia CraneAllocation defineste automat o baza de date SQL cu o serie de tabele . Relatiile si tranzactiile dintre datele stocate in tabele sunt controlate de aplicatie in mod automat.

Numele bazei de date : craneallocationdb

SQL user name aplicatie : craneallocation

SQL parola user aplicatie : craneallocation2023

Ex. conexiune MicrosoftSQL Server , vezi fisier application.ini

[Connection]

SQLDriverName=MsSQL

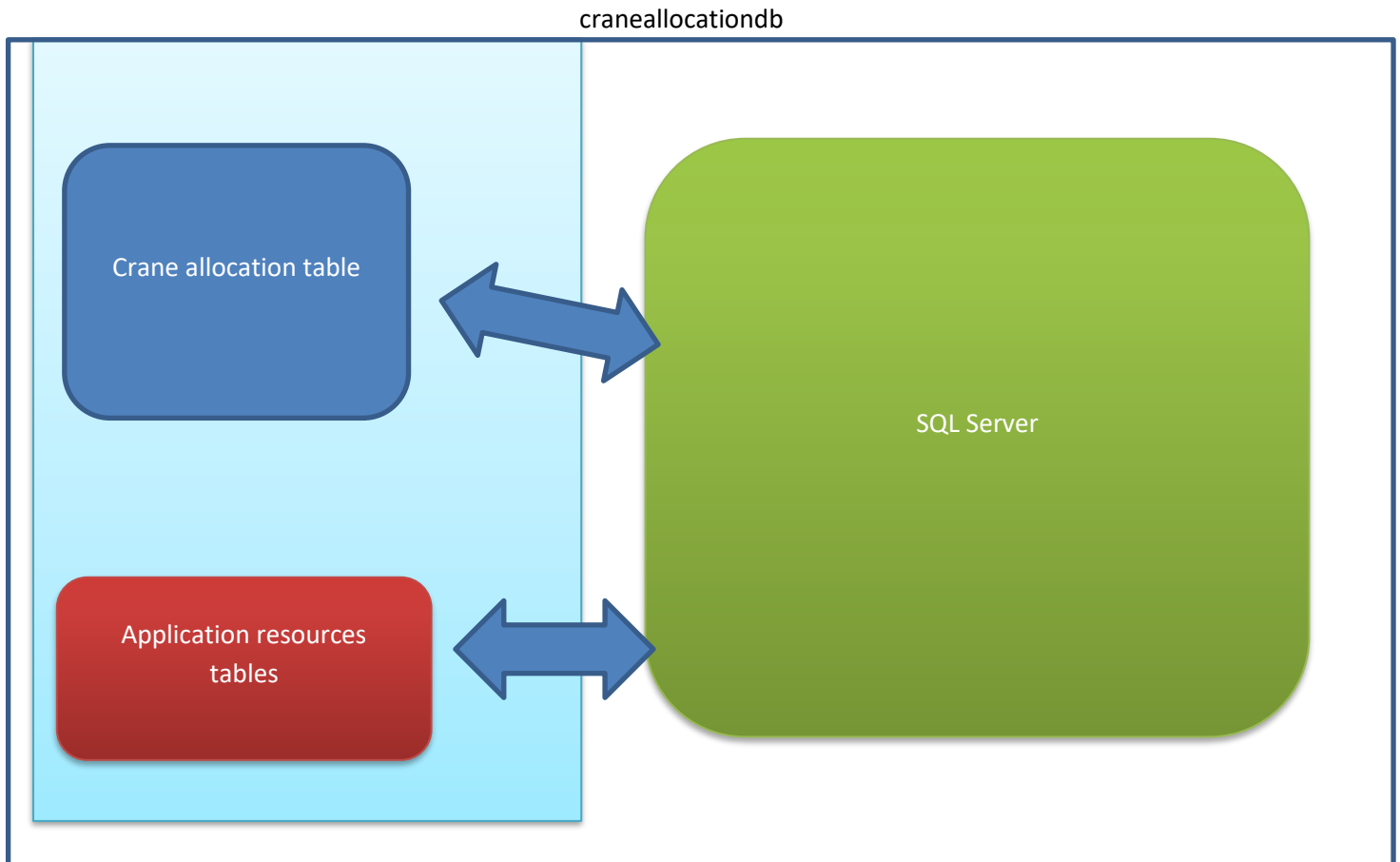
ServerName=86.120.145.43\SQLEXPRESS

ServerPort=1433

sqlUserName=craneallocation

sqlUserPassword=craneallocation2023

Software architecture



Toate aceste tabele au dupa caz coloane care incep cu prefixul ERP_... .Aceste coloane sunt utilizate aplicatie pentru a crea legaturi intre tabele si sunt administrate automat de aplicatie. Userul nu trebuie sa modifice valorile din aceste coloane.

Aplicatia genereaza sesiuni de lucru per alocare zi , iar sesiunea in care userul poate face planificarea dureaza 10min.

Daca userul sta mai mult de 10 minute aplicatia va inchide automat sesiunea pentru ziua aleasa si va debloca accesul altor useri.

In momentul cand userul reserve macaraua se va debloca automat sesiunea de lucru pentru alti utilizatori.

Resursele aplicatie

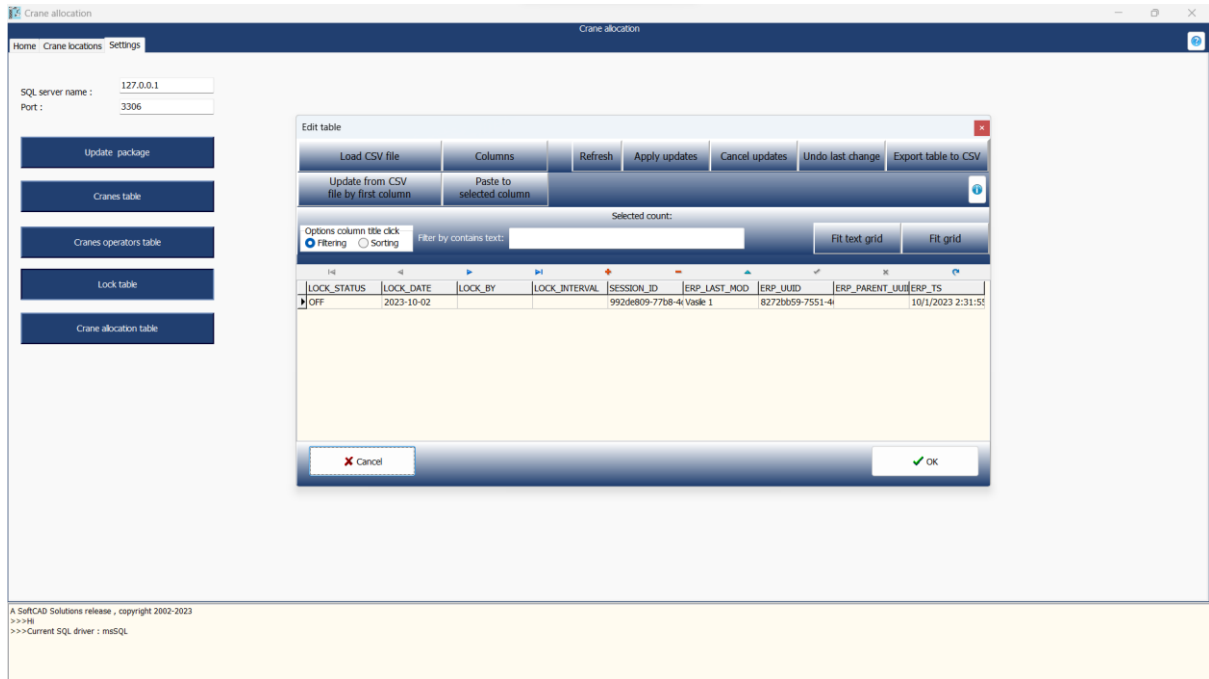
Cranes table : tabelul cu definire ID(numar serie macara) macarale si descriere(locatie)

ID_CRANE	CRANE_LOAD	REMARKS	ERP_LAST_MOD	ERP_UUID	ERP_TS
60082	15	Dana 1,2,3		0466c902-bf09-43e8-9f73-1101/2023 1:54:36 PM	
60326	50	ESTACADA 1A		0cd93825-01d6-4ac2-b97e-101/2023 1:54:37 PM	
60311	40/5	Cala 18000		0fcd003-39b-4952-b6b3-8101/2023 1:54:36 PM	
25117	50/6,3	Hala noia		213c30c-e4b8-4e45-ae32-101/2023 1:54:36 PM	
60602	16	Doc		2884463e-f6e4-4bd9-9483-101/2023 1:54:36 PM	
60782	40/5	Cala 18000		2cacc094-0668-48db-8e6e-101/2023 1:54:36 PM	
60844	40/5	Dana 4,5,6		40ecd9a7-2765-4b8e-9182-101/2023 1:54:36 PM	
60602	320	Doc		46601b9c-ed65-4e9e-8e8f-101/2023 1:54:36 PM	
60785	50/5	Doc		56f5b840-b02b-430a-9995-101/2023 1:54:36 PM	
60079	40/5	Cala 18000		702d6768-78ed-4452-8911-101/2023 1:54:36 PM	
60078	40/5	Cala 18000		78a68ce7-03d9-40d0-898a-101/2023 1:54:36 PM	
60081	20/5	Dana 4,5,6		78f7e365-7dfe-4902-86cb-2101/2023 1:54:36 PM	
60261	15	Dana 1,2,3		9d2e14bc-bc80-4a17-a08c-101/2023 1:54:36 PM	
60401	40/5	Cala 7500		a3f73b0a-0699-4b06-ad1d-101/2023 1:54:36 PM	

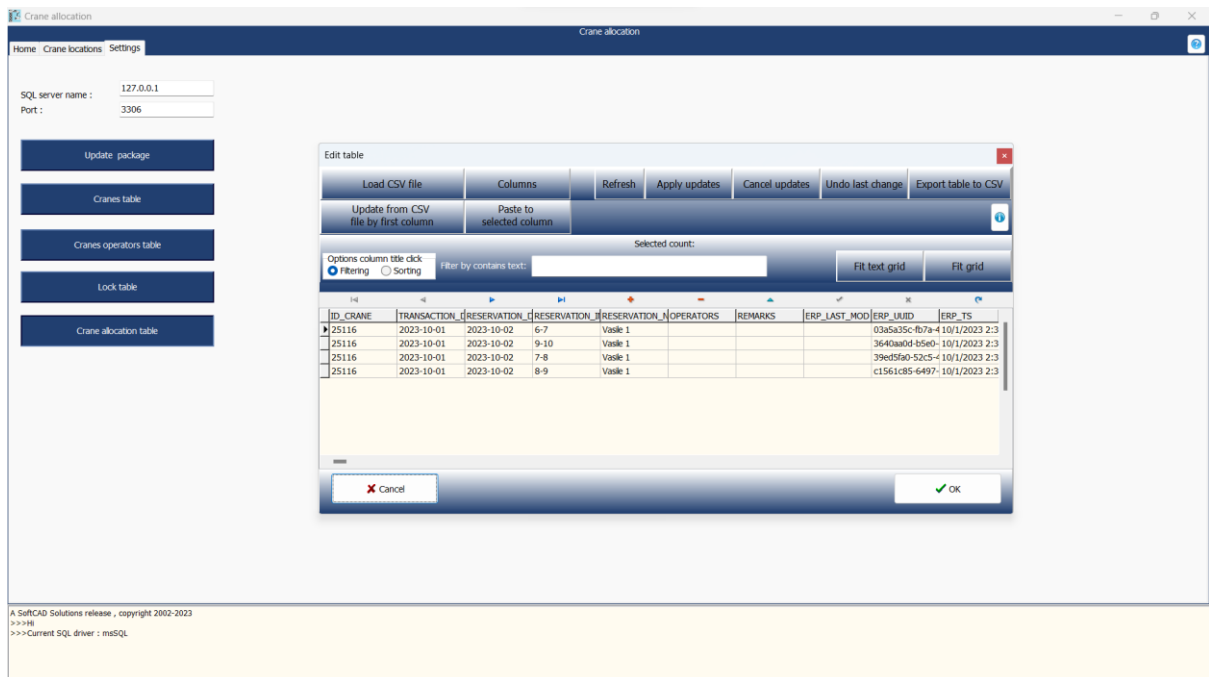
Cranes operators table : tabelul cu definire macaragarii si id macarale pe care pot sa opereze

ID_CRANE	NAME	MARK	REGISTRATION
60080,60844,60081,25116,25117,60326,60592,60384,60581	FILERU VERGINEL	74430	
60602,60785,61588,60843,60779	PRESURA MIRCEA	74401	
25116,25117,60326,60592,60384,60581	PAUN DANUT	74412	
60844,60080,60081,60261,60082,60085,60307,60401,60516,60078,60079,60311,60782,60785,61588,60843,60779	SANDU MARIAN	74421	
61588,60785,60843,60779,60078,60079,60311,60782,60844,60307,60401,60516	PAVEL FLORENTIN	74415	
60843,60785,61588,60779,60078,60079,60311,60782,60844,60082,60261,60401,60307,60516,60085,60080,60081	HALASAG NECULIA	74417	
60311,60078,60947,60782,60079,60785,61588,60843,60779,60844,60261,60082,60085,60307,60401,60516	PAUN GHEORGHETA	74402	
60078,60079,60311,60782,25116,25117,60326,60592,60384,60581	TULUC VALENTIN	74427	
60082,60261,60085,60401,60307,60516,60080,60081,60844,60785,61588,60078,60079,60782,60311	ANTON COSTICA	74416	
25116,25117,60326,60592,60384,60581	GHEORGHI IONEL	74426	
60307,60401,60516	BOGDAN VASILE	74413	
60947,60078,60079,60311,60782,60785,61588,60843,60779,60080,60307,60401,60516,25116,25117,60326,60592	DOGARU IONEL MBHATA	74409	
60078,60947,60782,60311,60078,60785,61588,60843,60779,60844,60307,60401,60516,60080,60081,25116,25117	GHEORGHE TEODOR	74408	
60785,61588,60602,60843,60779,60078,60947,60311,60782,60078	MODIGA MARICEL	74411	
60782,60078,60079,60311,60844,60082,60261,60085	BRINZA COSTEL ADRIAN	74407	
60779,60843,60602,60785,61588,60844,60078,60947,60311,60782,60081,60080,60081,60307,60401,60516,25116	PROTOPOPESCU MARCEL	74410	
60080,60081,60844,60261,60082,60085	ICHIM GABRIELA	74420	

Lock table : tabel utilizat de aplicatie pentru blocare sesiuni useri



Crane allocation table : tabelul principal al aplicatie



Mod de lucru

Aplicatia este organizata in 3 pagini(tab-uri).

Home: pagina principala a aplicatie.

In aceasta pagina utilizatorul poate vizualiza imediat situatia planificarii intr-o anumita zi pentru o anumita macara.

Procedeaza in felul urmat :

- Click pe zi calendar

(ID_CRANE='25116') AND (RESERVATION_DATE='2023-10-02')

October 2023

Mon	Tue	Wed	Thu	Fri	Sat	Sun
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Refresh tree

Data tree

25116	50/6.3	Hala noua
25117	50/6.3	Hala noua
60078	40/5	Cala 18000
60079	40/5	Cala 18000
60080	20	Bazin
60081	20/5	Dana 4,5,6
60082	15	Dana 1,2,3
60085	10	Dana 1,2,3
60261	15	Dana 1,2,3

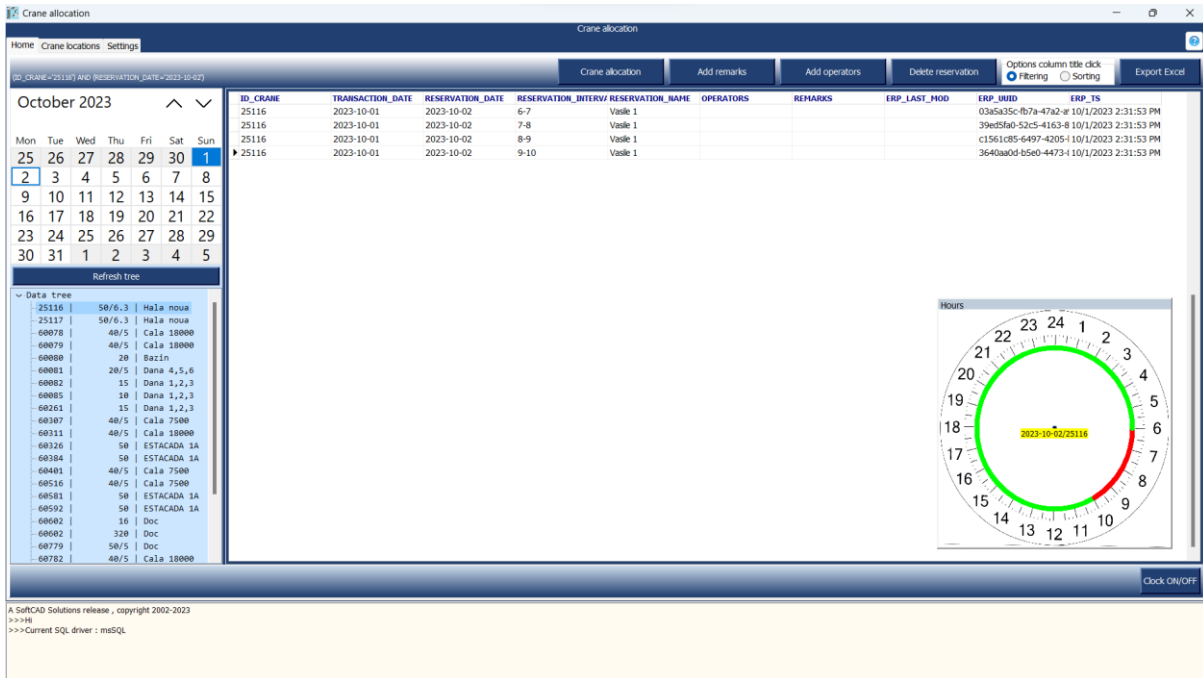
- Click pe macara

Aplicatia va aplica filtrele corespunzator si in grid tabel vor ramna doar inregistrarile corespunzatoare.

Ceasul 24H va vizualiza situatia din ziua respectiva pentru macaraua aleasa.

Rosu – inseamna ocupat

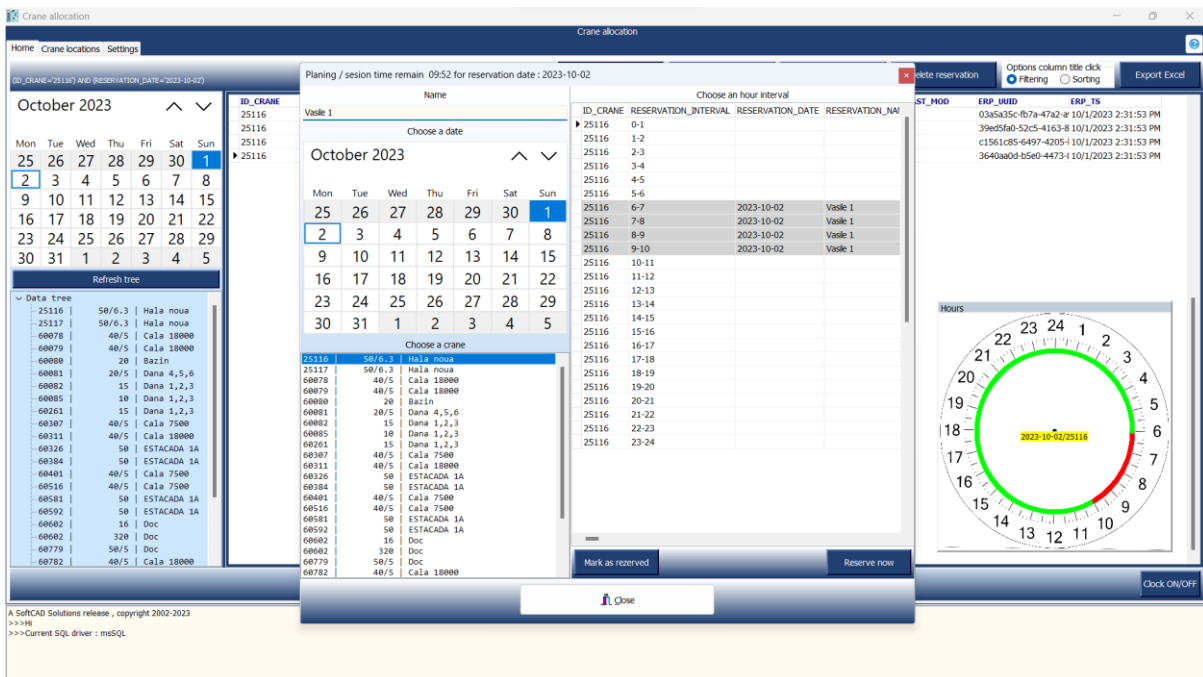
Verde – inseamna liber



Pentru alocare macara se apasa butonul Crane allocation

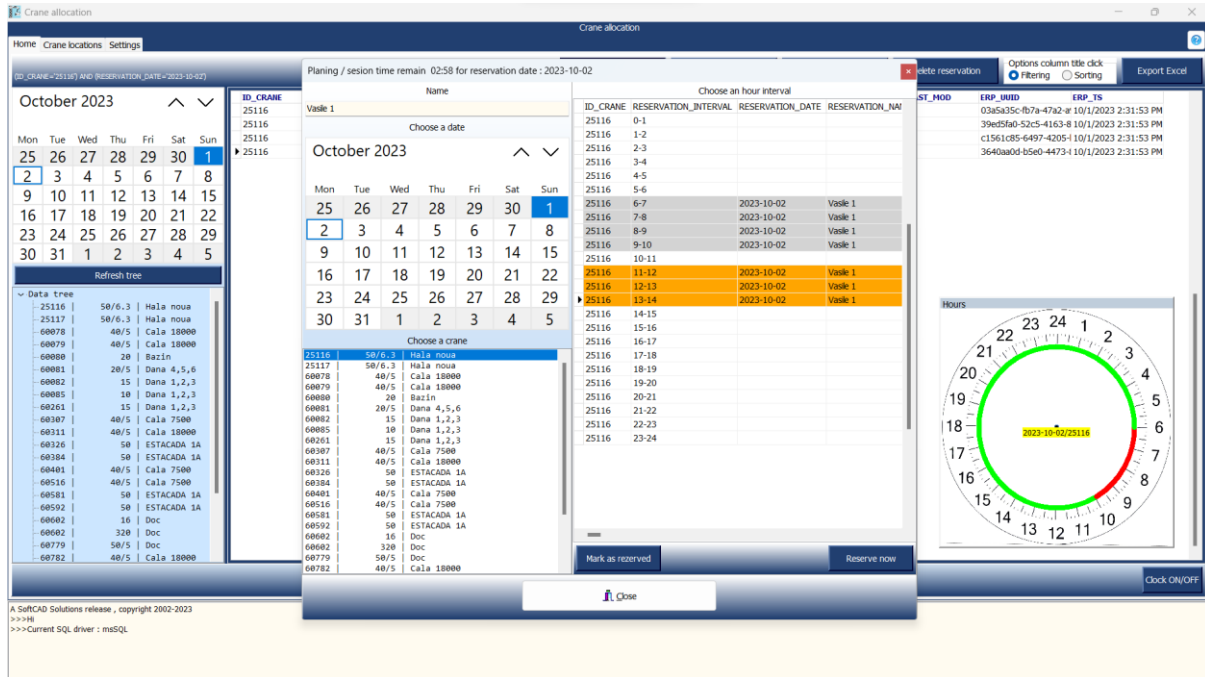
In fereastra noua se va introduce numele celui care doreste alocarea , se alege data, si macaraua.

Daca ziua respectiva nu este blocata de altcineva atunci va fi afisata situatia din ziua respectiva



Linile gri sunt cel care sunt deja rezervate.

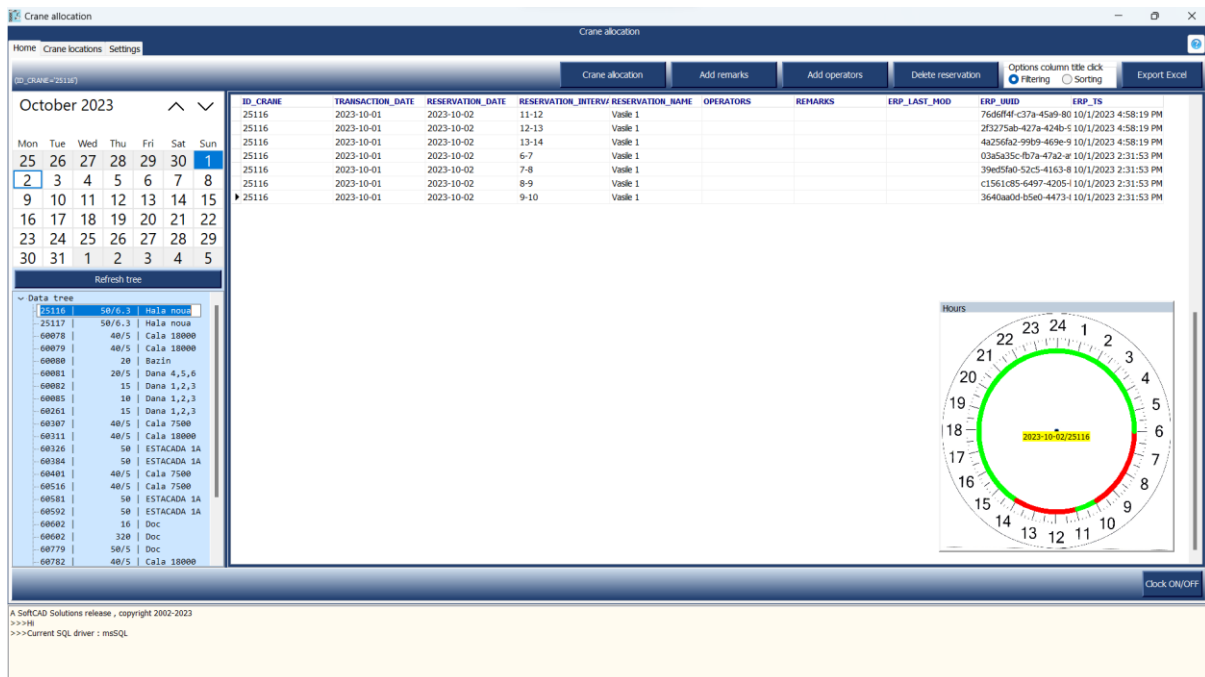
Rezervarea se poate face prin dbclick pe linia respectiva , sau click pe linie si apasa butonul Mark as reserved



Daca se face dbclick pe o linie rezervata de utilizatorul curent aceasta va fi deselectata.

Pentru a cofirma rezervarea se apasa butonul Reserve now.

Click pe data/macara si se poate vedea confirmarea rezervarii



Alocare macaragii

Se alege zi/macara , click pe linia cu intervalul dorit pentru selectie si se apasa butonul

Add operators

In ferereastra vor aparea doar macaragii care autorizati pe acea macara.

The screenshot shows the 'Crane allocation' application. On the left, there is a calendar for October 2023. The main area contains a table with columns: ID_CRANE, TRANSACTION_DATE, RESERVATION_DATE, RESERVATION_INTERVAL, RESERVATION_NAME, OPERATORS, REMARKS, ERP_LAST_MOD, ERP_IRID, and ERP_TS. A modal window titled 'Operators' is open, listing operators such as FILERU VERGINEL, PAUN DANUT, SANDU MARIAN, HALASAG NECULAI, TULUC VALENTIN, GHIMPU IONEL, DOGARU IONEL MIHALTA, GEORGHE TEODOR, and PROTOPOESCU MARCEL. A circular clock interface is also visible on the right side of the application window.

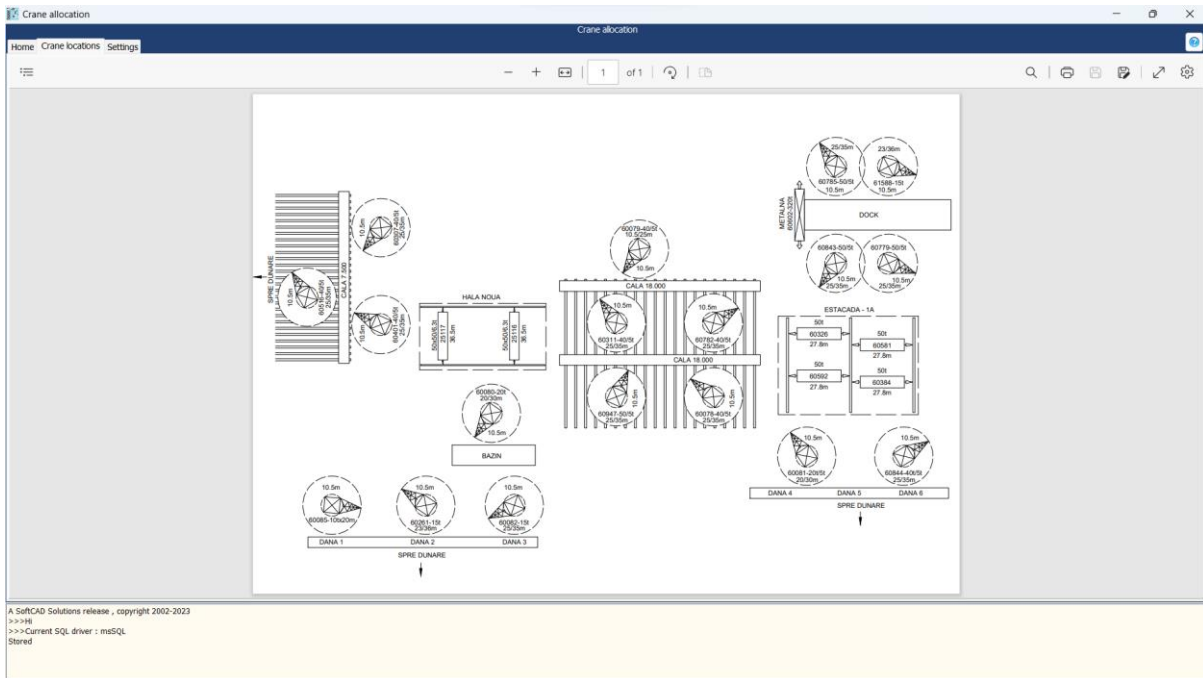
Add remarks

La fel se procedeaza si pentru a asociati niste observatii

The screenshot shows the 'Crane allocation' application with the 'Add remarks' modal window open. The modal window has a text input field for 'remarks' and 'Add' and 'Cancel' buttons. The background shows the same calendar and table as the previous screenshot, but with a different reservation selected.

Pagina Crane location

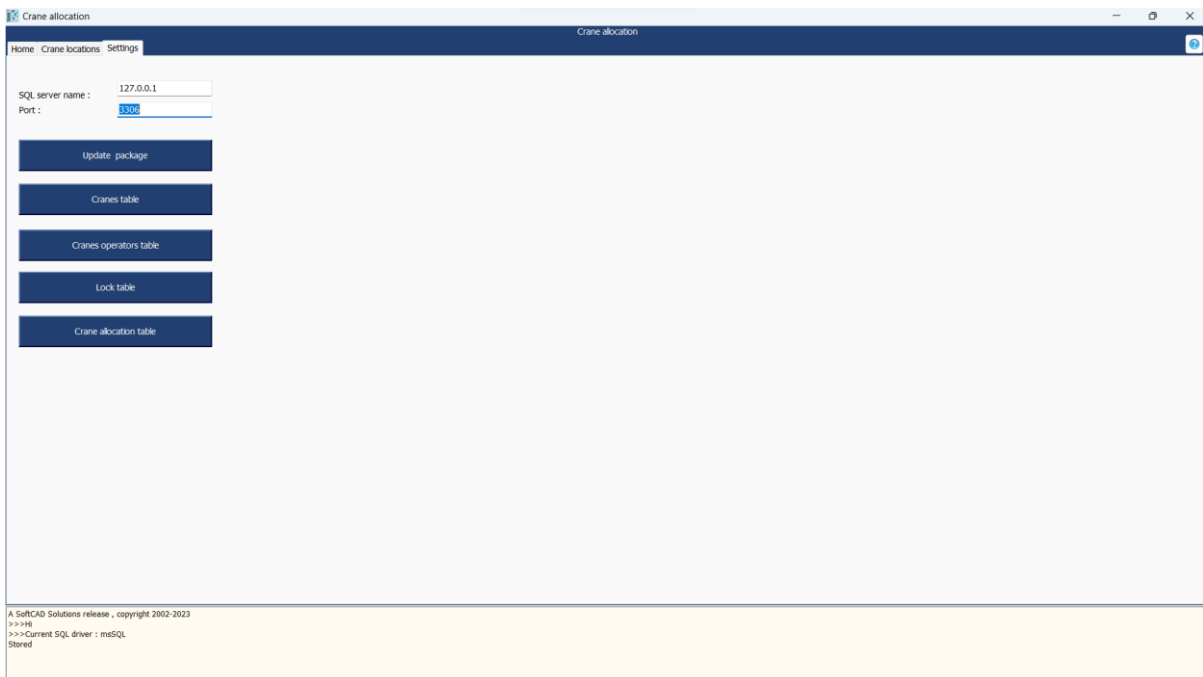
Contine desenul cu localizarea si identificarea macaralelor



Pagina settings

Este destinata administratorului si supervisorului.

Se pot edita tabelele de resurse



De exemplu daca in tabelul cu definitie macarale la CRANE_STATUS scrie ceva , asta implca pentru program ca acea macara este inactiva, si o va marca corespunzator.

ID_CRANE	CRANE_LOAD	REMARKS	CRANE_STATUS	ERP_LAST_MOD	ERP_UUID	ERP_TS
60072	15	ESTACADA 1A	repair		0495e702-1099-e398-4101/1/2023	1:54:36 PM
60026	50	ESTACADA 1A			0c893825-0185-4ac2-8e10/1/2023	1:54:37 PM
60311	40/5	Cala 18000			0fcd8d03-3f9b-4952-b610/1/2023	1:54:36 PM
25117	50/6,3	Hala noua			213ac00c-e4d8-4e45-ae10/1/2023	1:54:36 PM
60602	16	Doc			2884463e-fe6e-4bdd-9410/1/2023	1:54:36 PM
60782	40/5	Cala 18000			2cacc094-0668-48db-810/1/2023	1:54:36 PM
60844	40/5	Dana 4,5,6			40ecde87-27a6-4b8e-910/1/2023	1:54:36 PM
60602	320	Doc			46601b9c-ed65-4e96-810/1/2023	1:54:36 PM
60785	50/5	Doc			56f5b840-b02b-430a-9f10/1/2023	1:54:36 PM

ID_CRANE	TRANSACTION_DATE	RESERVATION_DATE	RESERVATION_INTERV	RESERVATION_NAME	OPERATORS	REMARKS	ERP_LAST_MOD	ERP_UUID	ERP_TS
25116	2023-10-01	2023-10-02	11-12	Vasile 1	GRIPPU IONEL 74421			76d6f4f1-c37a-45a9-8010/1/2023	4:58:19 PM
25116	2023-10-01	2023-10-02	12-13	Vasile 1				2f3275ab-427a-424b-510/1/2023	4:58:19 PM
25116	2023-10-01	2023-10-02	13-14	Vasile 1		doar 30min		4a25662-99b9-469e-910/1/2023	4:58:19 PM
25116	2023-10-01	2023-10-02	6-7	Vasile 1				03a5a35c-fb7a-47a2-e10/1/2023	2:31:53 PM
25116	2023-10-01	2023-10-02	7-8	Vasile 1				39ed5fa0-52c5-4163-e10/1/2023	2:31:53 PM
25116	2023-10-01	2023-10-02	8-9	Vasile 1				c1561c85-6497-4205-10/1/2023	2:31:53 PM
25116	2023-10-01	2023-10-02	9-10	Vasile 1				3640aad0-b5e0-4473-410/1/2023	2:31:53 PM



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