

Web application for tracing and tracking warehouse

Technical white paper

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1 Summary

This web application is developed in Microsoft ASP.NET 2.0 technology and Oracle database. It has Ajax capabilities so the rendering on the browser is smooth. Only the portion of the page that is changed causes post back to the server, not the entire page.

The application main purpose is to track the inventory of a warehouse system and to search for inventory articles by several criteria. The criteria are predefined and the user needs to know the search criteria in order searching to give results.

2 Introduction

The application is web based site for displaying the results of the search performed by selected criteria. Searching is performed on warehouse articles. The predefined criteria are these 13:

1. Time frame
2. SSCC
3. Lieferant and time frame
4. Lieferant, Artikel and time frame
5. Lieferant, Artikel, Charge and time frame
6. WE-Nr and time frame
7. WE-Nr, Ref-Nr and time frame
8. Ref-Nr and time frame
9. Lieferung and time frame
10. SAP Auftrag and time frame
11. Empfänger (Code) and time frame
12. Empfänger (Text) and time frame
13. Artikel and time frame

Other criteria are assumed to be false and searching is not performed. The result is displayed in 4 levels, every level gives different detail.

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3 Web Site Description

3.1 Main screen – level 1

The application is hosted on web server and it can be reached by typing the URL of the web application in any web browser. When user starts the application, the first screen that is shown is like Figure 1 - Main screen. On this welcome screen the user can see searching mask where he enters all needed values and clicks the search button.

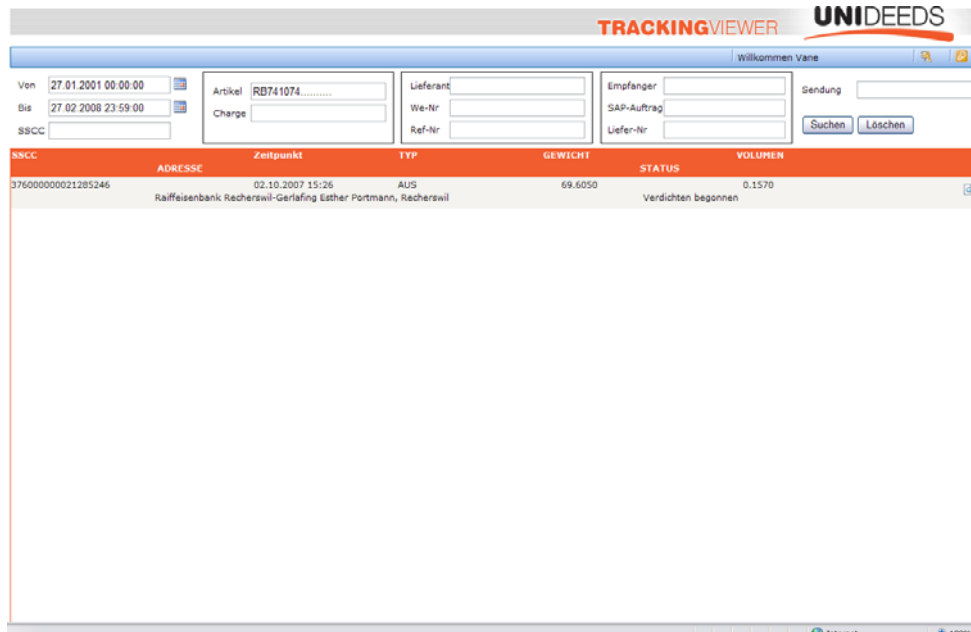


Figure 1 - Main screen

3.2 Level 2

When first level of data is displayed then on the right side of the row is displayed button for expanding the next level. The level 2 data is displayed on Figure 2 - Level 2 data.

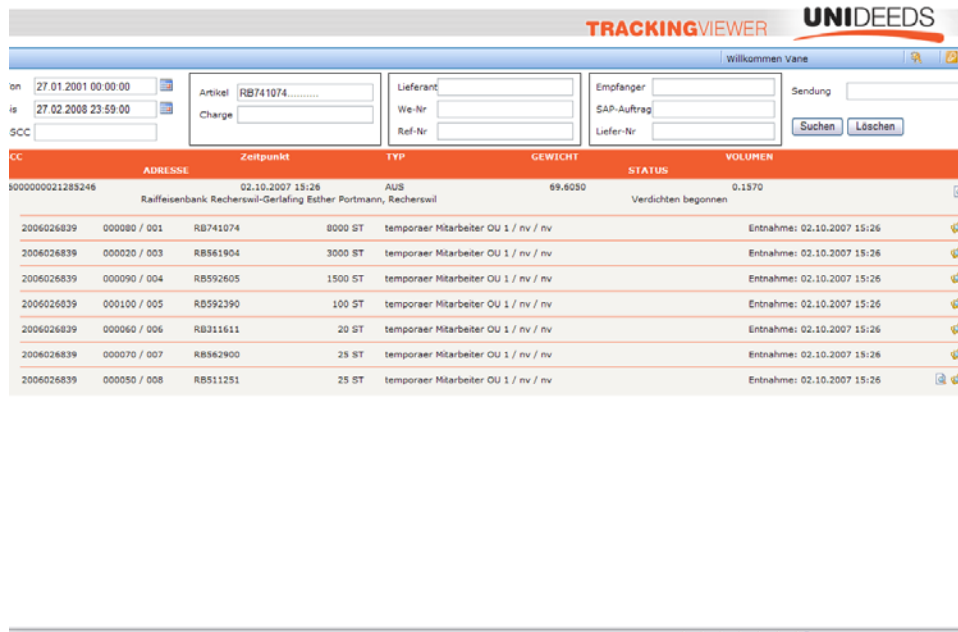


Figure 2 - Level 2 data

3.3 Level 3

The same is with the level 3 data. Every row has button for expanding/collapsing the next level but the last row has two buttons for expanding another level with different details.

CC	ADRESSE	Zeitpunkt	TYP	GEWICHT	STATUS	VOLUMEN
6000000021285246	Raiffeisenbank Recherswil-Gerlafing Esther Portmann, Recherswil	02.10.2007 15:26	AUS	69.6050	Verdichten begonnen	0.1570
2006026839	000080 / 001	RB741074	8000 ST	temporaer Mitarbeiter OU 1 / nv / nv		Entnahme: 02.10.2007 15:26
2006026839	000020 / 003	RB561904	3000 ST	temporaer Mitarbeiter OU 1 / nv / nv		Entnahme: 02.10.2007 15:26
2006026839	000090 / 004	RB592605	1500 ST	temporaer Mitarbeiter OU 1 / nv / nv		Entnahme: 02.10.2007 15:26
2006026839	000100 / 005	RB592390	100 ST	temporaer Mitarbeiter OU 1 / nv / nv		Entnahme: 02.10.2007 15:26
2006026839	000060 / 006	RB311611	20 ST	temporaer Mitarbeiter OU 1 / nv / nv		Entnahme: 02.10.2007 15:26
2006026839	000070 / 007	RB562900	25 ST	temporaer Mitarbeiter OU 1 / nv / nv		Entnahme: 02.10.2007 15:26
2006026839	000050 / 008	RB511251	25 ST	temporaer Mitarbeiter OU 1 / nv / nv		Entnahme: 02.10.2007 15:26
11722250 / VCP-318699	85-2007-275-0413	Lieferung am 03.10.2007 (Normal)	LKW/588	In Bearbeitung		

Figure 3 - Level 3 data

3.4 Level 4

Level 4 displays another level of details. This is the last one of the cascading expand/collapse mechanism.

SSCC	ADRESSE	Zeitpunkt	TYP	GEWICHT	STATUS	VOLUMEN
37600000021285246	Raiffeisenbank Rechterswil-Gerlafing Esther Portmann, Rechterswil	02.10.2007 15:26	AUS	69.6050	Verdichten begonnen	0.1570
2006026839	000080 / 001 RB741074		8000 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000020 / 003 RB561904		3000 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000090 / 004 RB592605		1500 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000100 / 005 RB592390		100 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000060 / 006 RB311611		20 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000070 / 007 RB562900		25 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000050 / 008 RB511251		25 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
11722150 / VCP-318699	85-2007-275-0413		Lieferung am 03.10.2007 (Normal)	LKW/SBB	In Bearbeitung	
AG	Raiffeisen Schweiz			Raiffeisenplatz 4	9001 St. Gallen	nv
AN	Antalis AG Lupfig			Industriestrasse 20	5242 Lupfig	056/4645111
EN	Raiffeisenbank Rechterswil-Gerlafing Esther Portmann			Hauptstrasse 109	4565 Rechterswil	nv
WE	Raiffeisenbank Rechterswil-Gerlafing Esther Portmann			Hauptstrasse 109	4565 Rechterswil	nv

Figure 4 - Level 4 data

4 Benefits of Tracking Viewer

The main benefit of this application is the clear picture of all articles that are stored in the warehouse of the company.

SSCC	ADRESSE	Zeitpunkt	TYP	GEWICHT	STATUS	VOLUMEN
6000000021285246	Raiffeisenbank Rechterswil-Gerlafing Esther Portmann, Rechterswil	02.10.2007 15:26	AUS	69.6050	Verdichten begonnen	0.1570
2006026839	000080 / 001 RB741074		8000 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000020 / 003 RB561904		3000 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000090 / 004 RB592605		1500 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000100 / 005 RB592390		100 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000060 / 006 RB311611		20 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000070 / 007 RB562900		25 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
2006026839	000050 / 008 RB511251		25 ST	temporaer Mitarbeiter OU 1 / nv / nv	Entnahme: 02.10.2007 15:26	
11722250 / VCP-318699	85-2007-275-0413		Lieferung am 03.10.2007 (Normal)	LKW/SBB	In Bearbeitung	

Figure 5 - Details from tracking inventory articles