



StoolTechnologies
COMFORTABLE TECHNOLOGY

Fluffy - Fully
Linked Facility
Functionality Yielder



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Fluffy

Custom software tailored to the client's needs for real time signaling and reporting of the productive lines activity



WorkFlow Lifecycle

Built on a WorkFlow approach to **instantly** involve all concerned persons



Security ORIENTED

Respecting ISOTS 16949 and ISO 27001/2 regulations



MULTILINGUAL INTERFACE

Interface available in Romanian, English and German



PAPERLESS DESIGN

Using modern tools to track actions, instantly notify and save nature by eliminating paper from the normal WorkFlow



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EASY AS CLICK

Purpose: real time signaling and reporting of the status of the production lines

Fast downtime signaling and instant notification of the persons involved in the mending process

In-depth reporting of the history of the machines

In-depth reporting and graphical representation of the defect types and root cause analysis



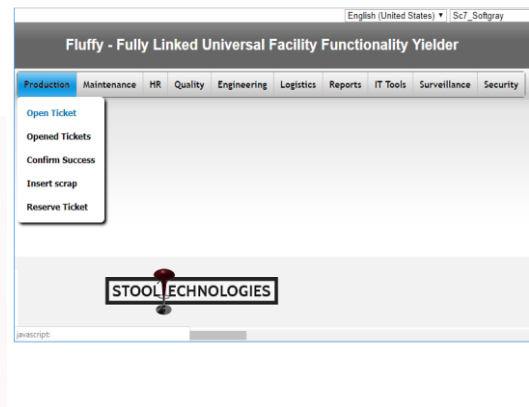
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Features

Log-in

Security – standalone or connected to your Windows AD - ISO27001/2



Easy to use, easy to support

Simple https:// interface available in EN, RO, DE

All the software is on the server (MySQL/php)



Fast notifications

Get notified of problems in seconds with our powerful wrist watches



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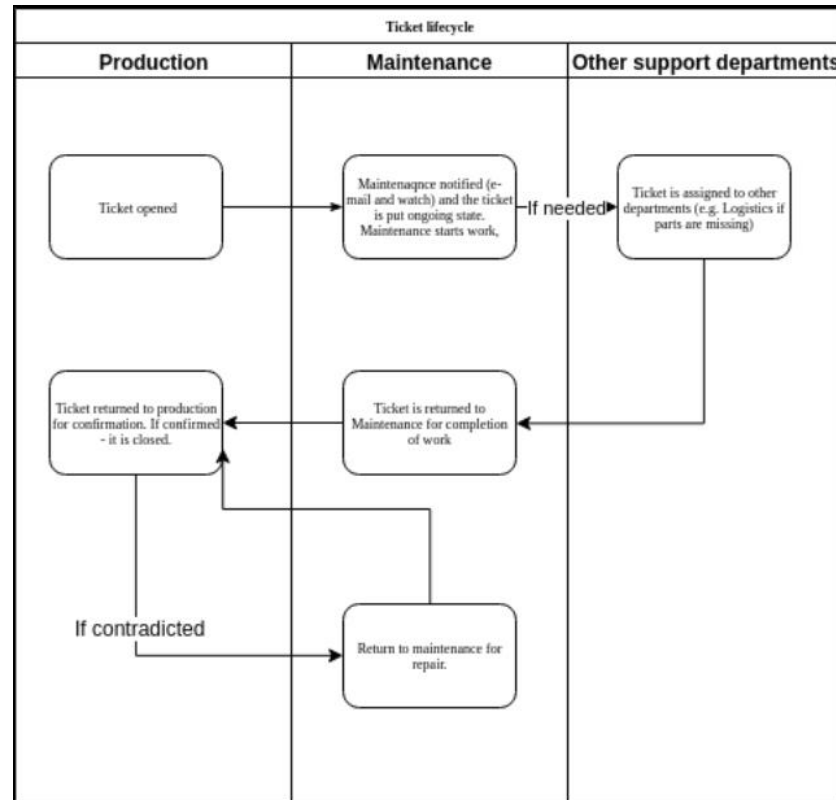
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Ticket lifecycle

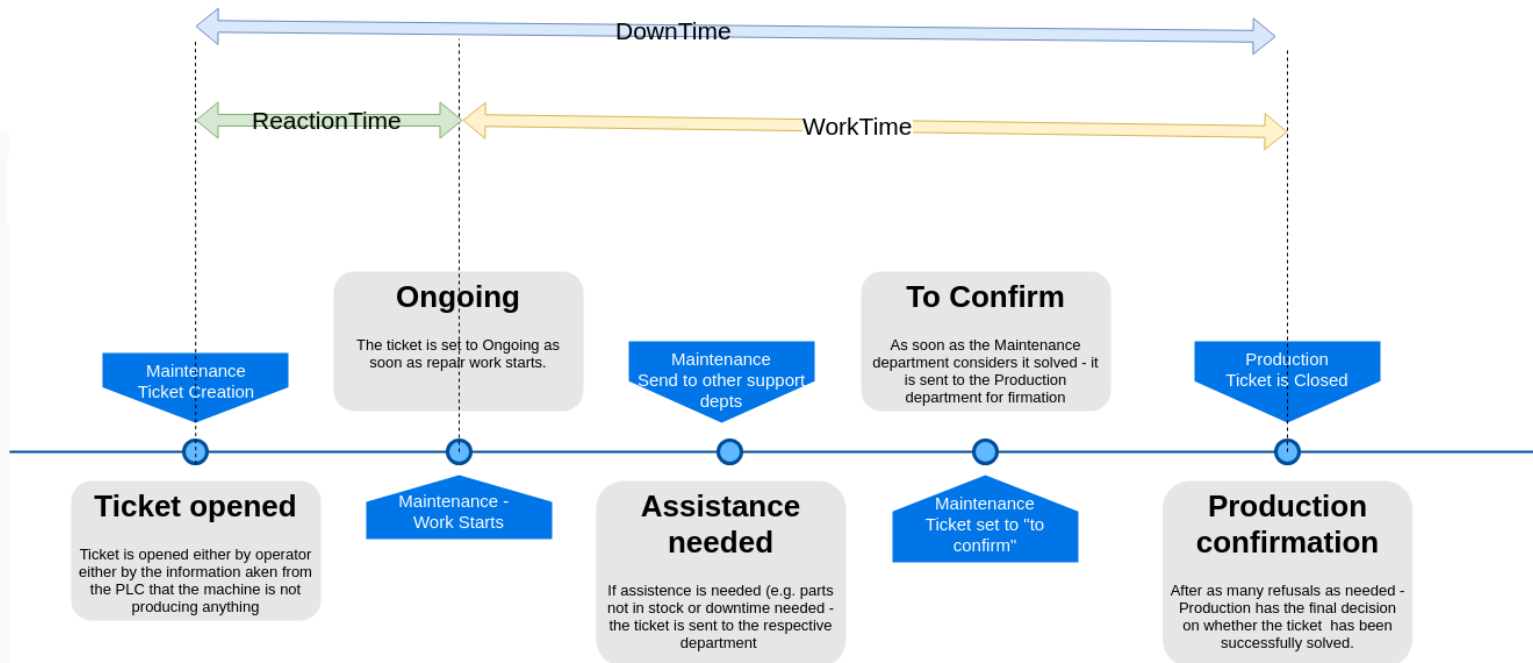




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Ticket Road Map



R

Easy as click



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Machine not working – the operator creates a ticket in one single screen

OPTION: good products, stops and errors read directly from the machine's PLC

The Maintenance department is immediately announced by e-mail

The ticket can be passed around departments (each party is notified by e-mail when it becomes responsible with the ticket).

This can identify bad communication within departments



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Ticket options

Lock it to signal it has been taken into work

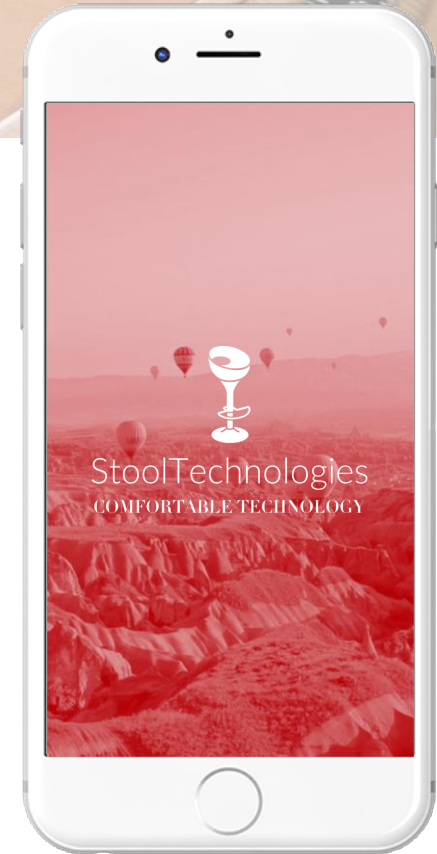
Close with message

Pass to another department

Pass to another user

Put on hold with message

Change priority





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Reporting

In the reporting area one might search by any information available and even make complex filters by grouping any of the search criteria available

The screenshot shows a reporting interface with the following elements:

- Title:** List - Fluffy -The Stag Section
- Date:** 2015-05-05
- Search Criteria:**
 - Dt:** Equal (dropdown), input fields for date and time (format: yyyy-mm-dd hh:mm:ss)
 - Trackid:** Contains (dropdown), input field
 - Name:** Contains (dropdown), input field
 - Category:** Greater than (dropdown), input field
 - Priority:** Contains (dropdown), input field
 - Lastchange:** Equal (dropdown), input fields for date and time (format: yyyy-mm-dd hh:mm:ss)
 - Time Worked:** Equal (dropdown), input fields for time (format: hh:mm:ss)
 - Masina:** Contains (dropdown), input field
 - Custom 5:** Greater than (dropdown), input field
- Criteria Selection:** Radio buttons for "All condition" (selected) and "Any conditions".
- Buttons:** Advanced Search, Clear, Edit, Exit.



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Reporting

Example for report on each machine showing:

- I** Number of incidents
- I** Downtime (maximum, minimum, sum , average)
- I** Time of actual work (maximum, minimum, sum , average)
- I** Reaction time (maximum, minimum, sum , average)

List - Piumpy - line stag section

Export Settings Group By Detail Back

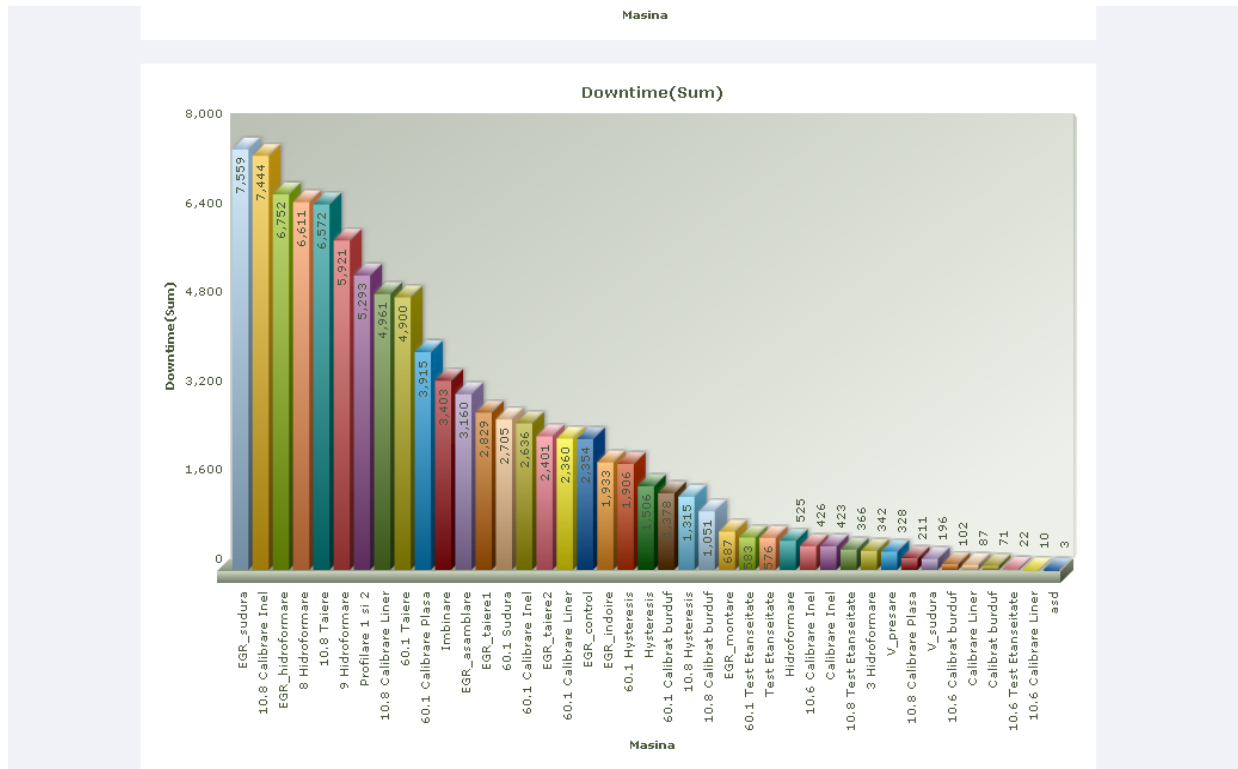
Summary	Records	Downtime(Sum)	Downtime(Avg)	Downtime(Max)	Downtime(Min)	In.Lucru(Avg)	TimeReactie(Avg)
10.6 Calibrare Inel	2	426	213	278	148	150	213
10.6 Calibrare Liner	1	10	10	10	10	7	10
10.6 Calibrat burduf	1	102	102	102	102	61	102
10.6 Test Etanseitate	1	22	22	22	22	10	22
10.8 Calibrare Inel	89	7,444	83	839	0	42	83
10.8 Calibrare Liner	80	4,961	62	365	2	24	62
10.8 Calibrare Plasa	11	211	19	40	2	9	19
10.8 Calibrat burduf	25	1,051	42	245	4	45	42
10.8 Hysteresis	40	1,315	32	139	2	16	32
10.8 Talere	123	6,572	53	329	4	54	53
10.8 Test Etanseitate	15	366	24	99	4	15	24
3 Hidroformare	4	342	85	256	17	67	85
60.1 Calibrare Inel	48	2,636	54	226	3	20	54
60.1 Calibrare Liner	37	2,360	63	527	4	35	63
60.1 Calibrare Plasa	57	3,815	68	400	4	23	68
60.1 Calibrat burduf	28	1,378	49	157	4	22	49
60.1 Hysteresis	31	1,906	61	259	3	34	61
60.1 Sudura	65	2,705	41	329	2	12	41
60.1 Talere	87	4,900	56	407	3	20	56
60.1 Test Etanseitate	14	593	41	153	6	18	41
8 Hidroformare	90	6,611	73	325	4	40	73
9 Hidroformare	61	5,821	97	758	1	41	97
Calibrare Inel	1	423	423	423	423	0	423
Calibrare Liner	1	87	87	87	87	0	87
Calibrat burduf	2	71	35	38	33	0	35
EGR_asamblare	46	3,160	68	733	3	32	68
EGR_control	5	2,354	470	2,279	10	12	470
EGR_hidroformare	39	6,752	173	2,041	2	84	173
EGR_indoire	48	1,933	40	357	3	13	40
EGR_montare	7	687	98	271	5	51	98
EGR_sudura	110	7,559	68	422	0	33	68
EGR_talere1	19	2,829	148	718	3	90	148
EGR_talere2	33	2,401	72	260	6	35	72
Hidroformare	3	525	175	418	13	24	175
hysteresis	2	1,506	753	1,397	109	0	753
Imbinare	54	3,403	63	404	4	26	63
Profilare_1_si_2	68	5,293	77	851	4	35	77
Test Etanseitate	3	576	192	391	6	1	192
V_presare	2	328	164	208	120	73	164
V_sudura	1	196	196	196	196	0	196
asd	1	3	3	3	3	1	3
Total	1,355	95,823	113	2,279	3	31	113



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Graphical display – easy to spot “top 5” issues





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Control Room/Live War Room – data analysis tools

Using interactive projectors – the need for printed documents disappears – as any graph can be instantly generated using the live data of the system, and even make notes and comments and save them.



You have the power of sending the flip chart of the meeting to everybody involved



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Features

The screenshot shows two windows from the Stool Technologies software. The left window, 'Vizual', displays a graphical floor plan of a factory with various machines highlighted in green, blue, and red. The right window, 'Timpi', displays a table of machine downtime and work time.

Masina	Downtime	Time Worked
masina vietii	6122	00:00:00
asdasd	13400	03:20:25

List in real-time the machines which are down, and has a graphical display where anyone can see in one look which lines are working and which are down



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[Alternative] - PLC Integration

Integration with productive machines:

-data read directly from PLC and used to:

- » Close the ticket after “x” successful items
- » Open the ticket the moment the machine isn't producing and close the ticket after “x” successful items

[Alternative] – PLC integration



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Integration with productive machines:

-data read directly from PLC and used to:

Close the ticket after “x” successful items

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Availability

<p>If needed (not provided by the customer's server room) – we can provide hardware/virtual redundancy for the software in local or cloud infrastructures</p>	<p>Information available under “stress” conditions – input from over 500 clients at the same time – load balancing</p>
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WHY Fluffy

Save time and money

Improves reaction time with up to 20%

As a reaction - reduces Downtimes with up to 30%

E.g.: reducing 8 minutes reaction time on an average of 23 minor malfunctions in one day saves you 3680 minutes in a 20 day working month.

$3680 \times \text{<cost of downtime>} = \text{your saving}$

E.g.: $3680\text{min} \times 10\$/\text{min} = 36,800\$\text{}$

Saving per month in just one shift

Offers Detailed Analysis

Have a clear and undeniable explanation when:

More personnel is needed for maintenance (High ReactionTime and low DownTime)

Some machine needs improvement (Short but numerous incidents)

Resources (air compressors, electricity, wiring) are faulty and need attention

There is a problem in the communication flow



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Quality Module

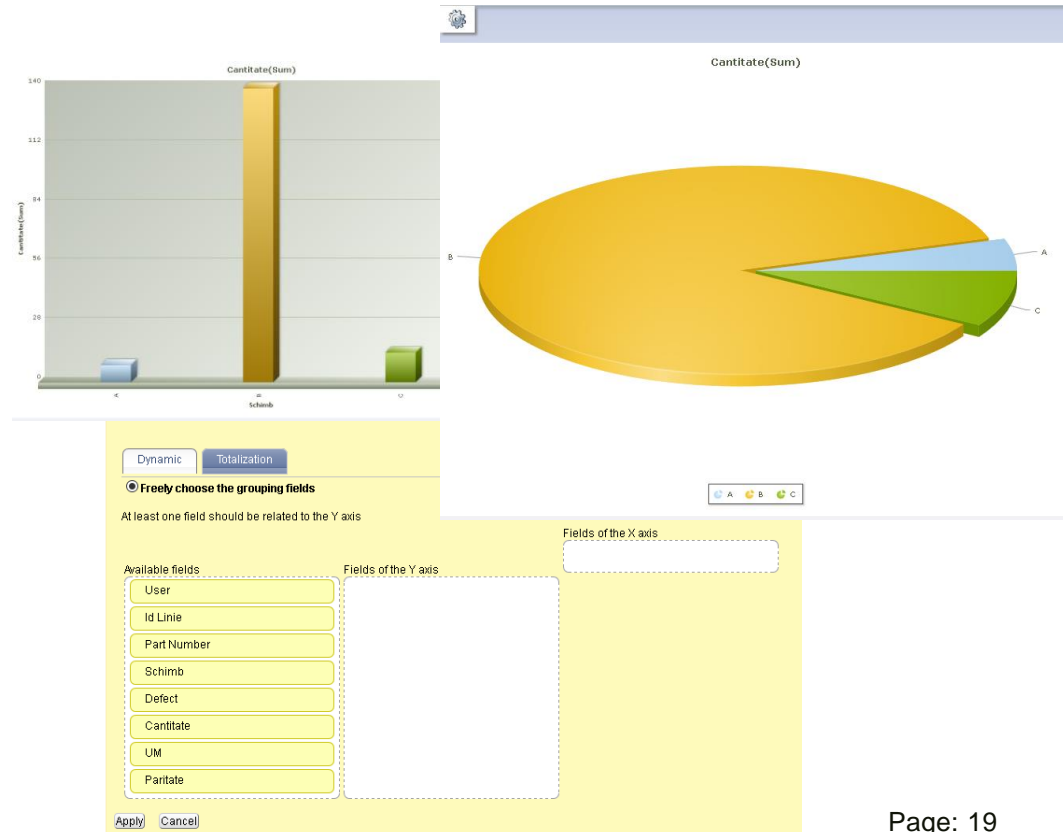
The operator inputs at the end of the shift the data

All data is defined by the concerning department:

Scrap type -> QA
Part Numbers: Engineering

All data can be used as a filter, put on X/Y axis

For analysis, and shown under a variety of graphical forms:





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CONTACT US

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