



European Union

European Regional
Development Fund

Work Tracking System

Instructions for operation and admin

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1 Quick guide

This Work Tracking system records the amount of time a job spends at different stages of production, for example, how long a product is worked on at the welding station and then at the painting station.

1.1.1 Loading admin page

To load the admin pages in a browser, on a network connected to the server, navigate to:

`<Server IP Address>/timelogger/pages/overview_client.php`

replacing '`<Server IP Address>`' with the relevant IP address for the server set up on the network.

1.1.2 Adding a jobs

On the Add Jobs page jobs can be added manually or by uploading a CSV file containing information for multiple jobs.

To add jobs manually enter the details required for the job and press the 'Add job' button.

If adding jobs using a CSV file first create a CSV file with the relevant headers, a template of which can be downloaded from the Add Jobs page. Browse for the file and press the 'Upload file' button. A list of jobs will be displayed including any jobs that could not be added, with the reason it was not added.

If a Job ID is not entered one will generate automatically and display.

1.1.3 Users

On the Users page users can be added, deleted and their QR code downloaded. To add a user, enter their name into the input box and press the 'Add User' button, a unique ID will be generated as well as a QR code which should be downloaded and printed.

1.1.4 Clocking On and Off

*See full user guide if multi user clocking configuration option is being used.

- Present a job QR code followed by a user QR code or vice versa into the slot at the bottom of the scanner with the code facing upwards. Wait for the indicator LED to change colour before removing a QR code. After presenting the first QR code the LED will turn green and following the second code the LED should turn blue when clocking on.
- Repeat the previous procedure in order to clock off a job. The indicator LED will turn purple when clocked off. If clocking on at a different station (a scanner with a different name) the user will, automatically, be clocked off the previous station and onto the new one.
- The button on the front of the scanner can be used to record a stage of a job as complete, when clocking off.

Notes:

-If there is a significant delay between presenting the QR codes the scanner will time out and indicate an error.

Wait for the error message to clear and LED to return to the light blue colour, before attempting to clock on/off again.

-If the scanner loses connection with the server the indicator LED will turn red, wait momentarily and the connection should soon return automatically.

2 Usage Guide

2.1 Scanner names

Each scanner unit connected to the system has a station name associated with it, for example welding, assembly or painting.

Multiple scanners can have the same station name so that, for example, if a large area of the factory floor is being utilised for welding, with more than one scanner named welding, the workers can clock on through one unit and clock out of another.

2.1.1 Setting names

- Using the navigation bar navigate to the Scanners page.
- Power on the scanner and its current name should appear in the table (only stations that have been seen recently will be shown in the Active Scanner table).
- Select this new station using the 'Current Scanner Name' dropdown, type in the new name and press the 'Rename' button. It may take time for this change to take effect on the scanner unit.
- Once the name change has taken effect it will show on the scanner screen.
- Repeat for all scanners.

The screenshot shows the 'DigitMe2 Work Tracking System' interface. At the top is a navigation bar with links: Overview, Add Job, Users, Work Hours, Clocked On Users, Time Sheets, Routes, Scanners, Products, and Stoppages. Below the navigation bar, there are two main sections. On the left, 'Active Scanner Stations' contains a table with three columns: Scanner Station Name, Last Seen, and Version. The table lists three stations: Assembly, CNC, and Painting. On the right, 'Rename a Scanner Station' contains a form with a 'Current Scanner Name' dropdown menu, a 'New Scanner Name' text input field, and a 'Rename' button. A character count '14/14' is displayed next to the input field.

Scanner Station Name	Last Seen	Version
Assembly	2019-04-18 15:17:40	FV1.0.2_27
CNC	2019-04-18 15:17:33	FV1.0.2_27
Painting	2019-04-18 15:17:38	FV1.0.2_27

Rename a Scanner Station

Current Scanner Name:

New Scanner Name: 14/14

Figure 1: Active Scanner Stations Page

Notes:

-Station names can be any reasonable length but due to the width of the scanner screens only the first 14 characters will be shown, as indicated by the character count next to the name input.

2.2 Routes

A Route is a list of stations and their order of usage that a product follows to reach its completed state. For example, a part might be processed at a CNC station, assembly station and a painting station in that order. Such a part's route could be called 'Main_Production_Route' and would be as follows:

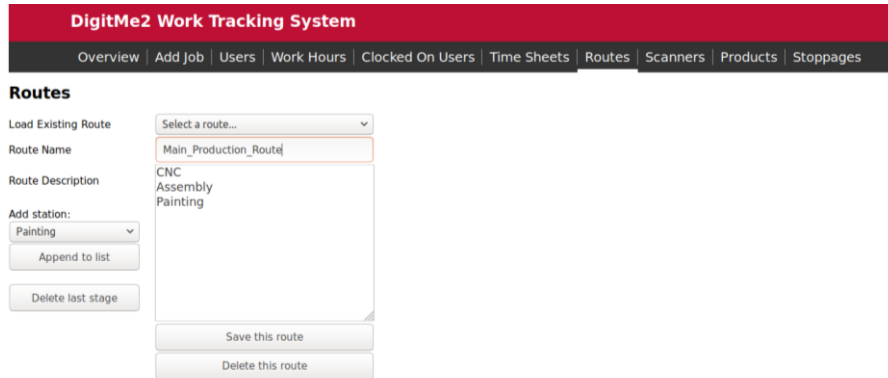


Figure 2: Routes Page

By using routes the Current production stage recorded for the job, as shown on the Overview page, will display the current stage in the route that a job has progressed to. The Current production stage will not show any stations that are not on the route or activity on previous stations in the route after it has progressed beyond it.

If the requireStageComplete configuration option was selected at installation an entry in the time log must be marked as stage complete at a station before the current production stage will indicate the next stage in the route. (By default this option is not selected)

Notes:

- Routes are an optional feature and do not have to be used for the system to function fully and correctly.
- Route names are case sensitive.

2.2.1 Adding new routes

- Enter the name of the new route in the 'Route Name' box.
- Choose the name of the station to be added to the route from the 'Add station' dropdown and press 'Append to list' button.
- Add all stations required in the order they are to be visited.
- Press 'Save this route' before navigating away from the page or changing route name selection.

2.2.2 Editing routes

- Select route to be edited from 'Load Existing Route' dropdown.
- To add a station select from the 'Add station' dropdown and press 'Append to list'.
- To change a Route's order stations must be removed accordingly using 'Delete last stage' button and then added in the required order. Stations can only be removed using the last stage button.
- Press 'Save this route' before navigating away from page or changing route name selection.

2.2.3 Renaming Route

- Select route to be renamed from 'Load Existing Route' dropdown.
- Enter the new name of the route in the 'Route Name' box.
- Press 'Save this route' before delete the old route name from the current routes

2.2.4 Deleting routes

- Select route to be deleted from 'Load Existing Route' drop down.
- Press 'Delete this route' before navigating away from the page or changing route name selection

2.3 Adding jobs

Figure 3: Add New Jobs Page

2.3.1 Adding a job manually

- Enter job details:
 - all input fields are optional
 - if a Job ID is not entered one will generate automatically and display in the Job ID input box once the job has been created
 - a Job ID can only be made up of letter, numbers and underscores. It must also not start with any of the prefixes the system uses which are 'Job_', 'user_', 'stpg_' and 'prtd_'.
 - changing a Route Description on this page will change the actual route unless a new route name is entered.
- Press 'Add Job Details' before navigating away from the page.
- Download and print the QR code, this can also be done from this job's Record page, accessible from the current job's table. It is advised that when printed QR codes should be no smaller than 15mm.

2.3.2 Adding a job with CSV files

- Create CSV following the format described below.
- Populate all details required for the jobs into the CSV file.
- On the Add New Jobs page, on the right-hand side, press the 'Browse...' button, select the new CSV file and press 'Upload File'.
- The jobs will be displayed including any jobs that could not be added with the reason it was not added.
- Format

The headings for the CSV file are:

jobId,expectedDuration,description,routeName,dueDate,totalChargeToCustomer,unitCount,productId,productId,priority

These **exact headings** must be used, they are case sensitive, their order does not matter. Headers must be on row 1, immediately followed by data and no other data information should be included below jobs.

The values entered in the CSV file must meet the conditions:

- jobId- 20 characters or less, made up of letters, numbers and underscores. It must also not start with any of the prefixes the system uses which are 'Job_', 'user_', 'stpg_' and 'prtd_'.
- expectedDuration- given in the form HH:MM
- description- 200 characters or less
- routeName- an existing route when adding jobs from a CSV file
- dueDate- in the form YY/MM/DD or YYYY/MM/DD or YY-MM-DD or YYYY-MM-DD
- totalChargeToCustomer- as ££.pp pounds & pence or pounds ££ and cannot be negative
- unitCount- cannot be negative
- productId- existing product
- priority- number 0-4 (None-0, Low-1, Medium-2, Hight-3, Urgent-4)

2.4 Managing users

DigitMe2 Work Tracking System

Overview | Add Job | **Users** | Work Hours | Clocked On Users | Time Sheets | Routes | Scanners | Products | Stoppages

Add New Users

New user name 50/50

Existing Users

☒ Sort by when users were added ☐ Sort alphabetically

User Name	User ID	QR Code	Delete user
Sophie	user_0020	Download QR code	<input type="button" value="Delete user"/>
Beth	user_0019	Download QR code	<input type="button" value="Delete user"/>
Harry	user_0018	Download QR code	<input type="button" value="Delete user"/>
Charlie	user_0017	Download QR code	<input type="button" value="Delete user"/>
Robin	user_0016	Download QR code	<input type="button" value="Delete user"/>
Alex	user_0015	Download QR code	<input type="button" value="Delete user"/>
Danny	user_0014	Download QR code	<input type="button" value="Delete user"/>

Figure 4: Manage Users Page

2.4.1 Adding users

- Enter the user name to be displayed for the employee.
 - Press 'Add user', a user ID will be assigned automatically by the system.
 - Download and print QR code using generated link or Existing Users table.
- It is advised that when printed QR codes should be no smaller than 15mm.

2.4.2 Deleting users

- Confirm that they are not clocked on.
- In the existing users table locate the user.
- Press the 'Delete user' button on the relevant row.

Notes:

-Clock on events of deleted users in Works Logs will be listed as 'User Deleted'.

2.5 Products

Product ID	Current Job	QR Code	Delete Product
Product_A	Job_0000000000000001	Download QR code	Delete Product
Product_B	Job_0000000000000002	Download QR code	Delete Product
Product_C	Job_0000000000000003	Download QR code	Delete Product

Figure 5: Products Page

Products can be used if a particular job is to be run repeatedly so that a new QR code does not have to be printed each time. A QR code for a product can be used like a job QR code, however, all the time logged will be placed on that product's Current Job.

When adding jobs select the product from the drop down or enter it into the CSV file. When a new job is added for a product it is set as its Current Job, consequently a product can only have a single job being worked on at a time, the previous job should be complete before adding another.

2.5.1 Add product

- Enter the ID for the product; it can only be made up of letters, numbers and underscores.
 - Press 'Add Product' and a QR code download link should appear.
 - Download and print QR code using generated link or Existing Products table.
- It is advised that when printed QR codes should be no smaller than 15mm.

Notes:

-Products are an optional feature and do not have to be used for the system to function fully and correctly.

2.6 Stoppage Reasons

Reason ID	Name	QR Code	Delete stoppage
stpg_0001	Break Down	Download QR code	Delete Reason
stpg_0011	Customer Request	Download QR code	Delete Reason
stpg_0012	Delivery	Download QR code	Delete Reason

Figure 6: Stoppages Reasons Page

The stoppages functionality can be used to log the time, location and reason for stoppages on a job. A list of stoppages recorded for a job can be viewed on a job's record page. A stoppage can be recorded at a scanner using a stoppage reason QR code from a set located at the scanner and a job QR code or on a job's record page.

2.6.1 Adding stoppage reason

- Enter a name for the stoppage reason.
 - Press 'Add user', a user ID will be assigned automatically by the system.
 - Download and print QR code using generated link or Existing Users table.
- It is advised that when printed QR codes should be no smaller than 15mm.

Notes:

-Stoppages are an optional feature and do not have to be used for the system to function fully and correctly.

2.7 Work hours

The screenshot shows the 'Work Hours' configuration page in the DigitMe2 Work Tracking System. The page has a red header with the system name and a navigation bar with links: Overview, Add Job, Users, Work Hours (active), Clock On Users, Time Sheets, Routes, Scanners, Products, and Stoppages. The main content area is titled 'Work Hours' and contains a form for setting start and end times for each day of the week. The form includes labels for 'Monday Start', 'Monday Finish', 'Tuesday Start', 'Tuesday Finish', 'Wednesday Start', 'Wednesday Finish', 'Thursday Start', 'Thursday Finish', 'Friday Start', 'Friday Finish', 'Saturday Start', 'Saturday Finish', and 'Sunday Start', 'Sunday Finish'. Each label is followed by a time selection box. The default times are: Monday-Friday 09:00 to 17:00, Saturday 00:00 to 00:00, and Sunday 00:00 to 00:00. Below the time selection boxes is a checkbox labeled 'Allow users to clock onto multiple jobs simultaneously' which is currently unchecked. At the bottom left of the form is a 'Save' button.

Day	Start Time	End Time
Monday	09:00	17:00
Tuesday	09:00	17:00
Wednesday	09:00	17:00
Thursday	09:00	17:00
Friday	09:00	17:00
Saturday	00:00	00:00
Sunday	00:00	00:00

☐ Allow users to clock onto multiple jobs simultaneously

Save

Figure 7: Work Hours Page

Work hours are used so that the time workers spend outside normal operating hours on a particular job can be recorded as 'Overtime'. The amount of overtime spent on a job is shown on the Overview page table and on the job's record page.

2.7.1 Clocking onto multiple jobs

The 'Allow users to clock onto multiple jobs simultaneously' option allows users to be clocked onto any number of jobs at the same time.

If this is **not** checked a user who is clocked onto one job then clocks onto a different job will automatically be clocked off the first.

On the Time Sheets page the Total time worked is only displayed if 'Allow users to clock onto multiple jobs simultaneously' is unchecked.

2.7.2 Lunch Period Times (configuration option at install)

If the addLunchBreak configuration option was selected at installation (by default not selected) then times for a lunch period can be selected on this page. If a user clocks on before the lunch period starts and only clocks off after lunch, a break will be added for the defined lunch period. Adding a break will split the entry in two separate entries in the time log the first ending at the start of lunch and the second entry starting at the end of lunch.

If in addition to addLunchBreak trimLunch configuration option is also selected then any work time is prevented from being added to jobs during lunch. If a user clocks off during lunch the time recorded will be altered to the start of lunch. Similarly if a user clocks on during the lunch period this will be altered to start at the end of the lunch. Finally if a user clocks on and off during lunch they will be recorded as clocking off at the same time they clocked on so that zero time will be added to the job.

Notes:

- The system does not support a 24 Hr operating schedule.
- It is recommended to only make changes to these settings when no users are clocked on.

2.8 Clocking on and off

2.8.1 Clocking on and off

2.8.1.1 Single User (default)

- Present a job QR code followed by a user QR code or vice versa into the slot at the bottom of the scanner with the code facing upwards. Wait for the indicator LED to change colour before removing a QR code. After presenting the first QR code the LED will turn green and following the second code the LED should turn blue when clocking on.
- Repeat the previous procedure in order to clock off a job. The indicator LED will turn purple when clocked off. If clocking on at a different station (a scanner with a different name) the user will, automatically be clocked off the previous station and onto the new station.

Notes:

-If there is a significant delay between presenting the QR codes the scanner will time out and indicate an error. Wait for the error message to clear and LED to return to the light blue colour, before attempting to clock on/off again.
-If the scanner loses connection with the server the indicator LED will turn red, wait momentarily and the connection should return automatically. If the problem persists check the network connection.

2.8.1.2 Multi User (configuration option at install)

- To clock on or off present a job QR code followed by all user's QR codes, individually in turn, into the slot at the bottom of the scanner with the code facing upwards. After presenting the first QR code the LED will turn green, wait for the indicator LED to flash blue before removing a QR code.
- When all QR codes have been scanned press the button on the front of unit. Once the scanner has finished processing the LED will turn purple and the number of users clocked on, off or errors will be listed.
- If clocking on at a different station (a scanner with a different name) the user will automatically be clocked off the previous station and onto the new station.

2.8.1.2.1 Multi User Cancel

If only one type of ID has been scanned, for example a job Id or user Id, instead of waiting for the scanner to timeout it can be cancelled by pressing the button on the front of the scanner.

Notes:

-If there is a significant delay between presenting the QR codes and a job or at least one user has not been scanned the scanner will timeout and indicate an error. Wait for the error message to clear and LED to return to the light blue colour, before attempting to clock on/off again. If a user and job has been seen they will be clocked on after timing out.
-If the scanner loses connection with the server the indicator LED will turn red, wait momentarily and the connection should return automatically. If the problem persists check the network connection.

2.8.2 Marking a stage complete

The button on the front of the scanner can be used to record a stage of a job as complete, when clocking off. This will be shown in the Work log under Job Status.

To mark a stage complete, before Clocking out press the button on the front of the scanner then present the two QR codes as normal.

2.8.3 Failure to clock off

If a user fails to clock off they will automatically be clocked off at midnight and recorded as clocking off at the same time as they clocked on so that the duration for the record will be shown as 00:00. In the event of an automatic clock off at midnight no time will be added to the Total Worked Time for the job and the Job Status at station for this record will be recorded as 'Unknown'.

2.8.4 Viewing currently clocked on users

To view users currently clocked on and which jobs they are working on, navigate to the 'Clocked On Users' page.

Users can be individually clocked off jobs by admin from this page by pressing the 'Clock Off' button for that user. The work status in the log will be recorded as "Unknown" when clocked off by admin in this way.

DigitMe2 Work Tracking System					
Overview Add Job Users Work Hours Clocked On Users Time Sheets Routes Scanners Products Stoppages					
Currently Clocked On Users					
Job ID	Product ID	User Name	Station	Clocked On	Clock Off
Job_0000000000000001	Product_A	Alex	Assembly	15:16:10	Clock Off
Job_0000000000000002	Product_B	Sophie	CNC	15:16:23	Clock Off

Figure 8: Current Users Page

2.9 Recording Stoppages

Present a job QR code followed by a stoppage reason QR code or vice versa into the slot at the bottom of the scanner with the code facing upwards. Wait for the indicator LED to change colour before removing a QR code. After presenting the first QR code the LED will turn green and following the second code the LED will turn blue when recorded.

2.10 Current jobs

2.10.1 System overview

- On the system Overview page all jobs in the system can be viewed in table form.
- Jobs can be sorted, searched and filtered using start/end date, search text, completed and priority etc.
- Under Display options use the top two check boxes to select which jobs to highlight.
If 'Highlight jobs with close/overdue deadline' is checked, use the 'Close deadline day count' to highlight jobs with deadlines within the specified number of days.
- Subsequent check boxes select which columns to include in the table.
- Stoppages column shows the reason and location of the last two unresolved stoppages.
- To access a jobs record page and logs, click on the relevant row in the table

DigitMe2 Work Tracking System

Overview | Add Job | Users | Work Hours | Clocked On Users | Time Sheets | Routes | Scanners | Products | Stoppages

Current Jobs
Show Controls

Sorting options

- ☐ Sort by when jobs were added (newest first)
- ☐ Sort by when jobs were added (oldest first)
- ☐ Sort by when jobs are due (soonest first)
- ☐ Sort by when jobs are due (latest first)
- ☐ Sort alphabetically by job ID
- ☐ Sort by priority

☐ Show urgent jobs first
☐ Sub-sort by priority

[Click here to download current data as CSV](#)

Update Table

Search jobs

☒ Display jobs created within selected time period

Start date: 11/04/2019
End date: 18/04/2019

☐ Display jobs due within selected time period

Start date: dd/mm/yyyy
End date: dd/mm/yyyy

enter search phrase

☐ Only show urgent jobs ☒ Hide completed jobs

Display options

Close to due date count: 5

☒ Highlight jobs with close/overdue deadline

☐ Highlight Priority

☐ Show product ID

☐ Show description

☐ Show number of units

☐ Show current status

☐ Show stage of production

☐ Show job created timestamp

☐ Show due date

☐ Show expected duration

☐ Show total worked time

☐ Show total overtime

☐ Show job efficiency

☐ Show stoppages

☐ Show Charge Per Minute

☐ Show Total Charge To Customer

Key

- Overdue
- Close to Overdue
- Urgent
- High Priority
- Medium Priority
- Low Priority

Job ID	Product ID	Description	Number of Units	Job Status	Production Stage	Job Added	Job Due	Expected Duration (HH:MM)	Total Worked Time (HH:MM)	Total Overtime (HH:MM)	Efficiency (m)
Job_0000000000000001	Product_A		0	Work in Progress		2019-04-18 13:49:28	2019-04-29	00:00	07:48	01:20	0.0000
Job_0000000000000004			0	Pending		2019-04-18 13:51:52	2019-04-29	00:00	00:00	00:00	
Job_0000000000000006			0	Pending		2019-04-18 13:58:19	2019-04-29	00:00	00:00	00:00	
Job_0000000000000007			0	Pending		2019-04-18 13:58:23	2019-04-29	00:00	00:00	00:00	
Job_0000000000000008			0	Pending		2019-04-18 14:02:49	2019-04-29	00:00	00:00	00:00	
Job_0000000000000002	Product_B		0	Work in Progress		2019-04-18 13:49:39	2019-04-27	00:00	00:52	00:00	0.0000
Job_0000000000000003	Product_C		0	Work in Progress		2019-04-18 13:49:47	2019-04-27	00:00	01:56	00:03	0.0000
Job_0000000000000005			0	Pending		2019-04-18 13:58:12	2019-04-27	00:00	00:00	00:00	

Figure 9: Overview Page

Job ID	Product ID	Description	Number of Units	Job Status	Production Stage	Job Added	Job Due	Expected Duration (HH:MM)	Total Worked Time (HH:MM)	Total Overtime (HH:MM)	Efficiency (m)
Job_0000000000000005			0	Pending		2019-04-18 13:58:12	2019-04-27	00:00	00:00	00:00	
Job_0000000000000002	Product_B		0	Work in Progress		2019-04-18 13:49:39	2019-04-27	00:00	00:52	00:00	0.0000
Job_0000000000000003	Product_C		0	Work in Progress		2019-04-18 13:49:47	2019-04-27	00:00	01:56	00:03	0.0000
Job_0000000000000006			0	Pending		2019-04-18 13:58:19	2019-04-29	00:00	00:00	00:00	
Job_0000000000000001	Product_A		0	Work in Progress		2019-04-18 13:49:28	2019-04-29	00:00	07:48	01:20	0.0000
Job_0000000000000008			0	Pending		2019-04-18 14:02:49	2019-04-29	00:00	00:00	00:00	
Job_0000000000000007			0	Pending		2019-04-18 13:58:23	2019-04-29	00:00	00:00	00:00	
Job_0000000000000004			0	Pending		2019-04-18 13:51:52	2019-04-29	00:00	00:00	00:00	

Figure 10: Jobs table with jobs close to overdue and priority

Job ID	Product ID	Description	Number of Units	Job Status	Production Stage	Job Added	Job Due	Expected Duration (HH:MM)	Total Worked Time (HH:MM)	Total Overtime (HH:MM)	Efficiency (m)
Job_0000000000000005			0	Pending		2019-04-18 13:58:12	2019-04-27	00:00	00:00	00:00	
Job_0000000000000002	Product_B		0	Work in Progress		2019-04-18 13:49:39	2019-04-27	00:00	00:52	00:00	0.0000
Job_0000000000000003	Product_C		0	Work in Progress		2019-04-18 13:49:47	2019-04-27	00:00	01:56	00:03	0.0000
Job_0000000000000006			0	Pending		2019-04-18 13:58:19	2019-04-29	00:00	00:00	00:00	
Job_0000000000000001	Product_A		0	Work in Progress		2019-04-18 13:49:28	2019-04-29	00:00	07:48	01:20	0.0000
Job_0000000000000008			0	Pending		2019-04-18 14:02:49	2019-04-29	00:00	00:00	00:00	
Job_0000000000000007			0	Pending		2019-04-18 13:58:23	2019-04-29	00:00	00:00	00:00	
Job_0000000000000004			0	Pending		2019-04-18 13:51:52	2019-04-29	00:00	00:00	00:00	

Figure 11: Jobs table ordered by due date and sub sorted by priority

2.11 Job Record

From a job's record page, the details of the page can be viewed and edited, the list of stoppages can be viewed, a stoppage can be recorded and a log of time spent clocked onto the job can be viewed.

To access, click on the relevant entry in the table on the system overview page.

DigitMe2 Work Tracking System

Overview | Add Job | Users | Work Hours | Clocked On Users | Time Sheets | Routes | Scanners | Products | Stoppages

Job Record

Job ID: Job_000000000000001
Current Status: Work in Progress
Product: Product_A
Production Route Name: Select a route...
Production Route Stage: 200/200
Description: 200/200
Number of units: 0
Due Date: 29/04/2019
Expected Duration: 00:00
Total Worked Time: 07:50
Total Overtime: 01:20
Charge to Customer (£): 0
Generated Value per Minute (£): 0.0
Priority: High
Job Created: 2019-04-18 13:49:28
Notes:

Stoppages:

Select a station... Select a reason...
Description: Add Stoppage

Station Name	Reason	Description	Date	Time	Status
CNC	Break Down	Machine A power loss	2019-04-18	15:18:46	resolve
Admin	Delivery		2019-04-18	15:18:08	resolve

Mark Job Complete Delete Job Duplicate Job Save Changes
[Download Job QR code](#)

Work Log

Figure 12: Job Record Page

2.11.1 Updating job details

To update details, amend the required information and press 'Save'

before navigating away from page.

2.11.1.1 Changing job ID

If the job ID is changed the QR code will also change and will need to be reprinted.

2.11.2 Delete job

Deleting a job will permanently delete all records of a job including work log and stoppages log.

2.11.3 Duplicating a record

Duplicating a record will save any changes to the current job and copy all user changeable values to a new job with an automatically generated ID (this can be changed). Values such as worked times, stoppages stage and status will not be moved across to the duplicate.

2.11.4 Marking a Job as Complete

To mark a job as complete the 'Mark Job Complete' button can be pressed on the job details page and reversed if necessary to mark the job as in progress again by pressing the same button. A job will also be marked as complete if the 'Stage complete button on the front of a scanner is pressed when clocking of the last stage in a route.

2.11.5 Stoppages Log

The stoppages log lists the location, reason, time and date of all recorded stoppages for the individual job.

To record stoppages select a station, reason and press ‘Add Stoppage’ or follow instructions for Recording a Stoppage at a station.

Marking a stoppage as resolved can be used for internal purposes and will hide this stoppage from being displayed on the overview page.

2.11.6 Work Log

Work Log

☐ Display records between start and end dates ☐ Collapse Records

Start date: End date:

Worked time in the selected date range 07:50
Overtime in the selected date range 01:20
[Click here to download the currently displayed table as CSV](#)

Station Name	User Name	Record Date	Start Time	Finish Time	Duration (HH:MM)	Overtime(HH:MM)	Job Status at Station
Assembly	Alex	2019-04-18	15:16:10		00:01	00:00	Work in Progress
Painting	Alex	2019-04-18	15:03:24	17:23:59	02:20	00:23	Work in Progress
Painting	Sophie	2019-04-18	13:27:14	14:07:57	00:40	00:00	Work in Progress
CNC	Sophie	2019-04-18	09:35:59	11:58:14	02:22	00:00	Work in Progress
Assembly	Alex	2019-04-18	09:06:16	10:03:24	00:57	00:00	Unknown
Assembly	Sophie	2019-04-18	08:03:15	09:30:42	01:27	00:56	Work in Progress

Figure 13: Work Log on Job Record Page

The work log displays a list of all the entries of users clocked on to the individual job including the location, date, durations, clock on time and clock off time.

The job status at a station, at time of clock off, is by default “Work in Progress” but can be marked as “Stage Complete” when clocking off at a scanner. If a user fails to clock off and so is clocked off when clocking on another job, at midnight or by admin the status of the job for this log will be recorded as ‘unknown’.

The link directly above the table will download a csv file of the table currently displayed.

2.11.6.1 Collapse Records

Collapsing a job’s work log will shrink the table so entries for each individual station are reduced to a single row, the total duration and overtime spent at that station can be viewed with the last status recorded at the station.

2.11.7 Work Log Record

DigitMe2 Work Tracking System

Overview | Add Job | Users | Work Hours | Clocked On Users | Time Sheets | Routes | Scan

Work Log Record

Station Name	User Name	Record Date	Start Time	Finish Time	Duration (HH:MM)	Overtime(HH:MM)	Job Status at Station
Painting	Alex	2019-04-18	15:03:24	17:23:59	02:20	00:23	workInProgress

Job ID Job_0000000000000001

Station

UserName Alex

Date 2019-04-18

Start Time

End Time

Duration(HH:MM) 02:20

Overtime(HH:MM) 00:23

Job Status at Station

Insert Break

Start Time End Time

DigitMe2 Work Tracking System

Overview | Add Job | Users | Work Hours | Clocked On Users | Time Sheets | Routes | Sca

Work Log Record

Station Name	User Name	Record Date	Start Time	Finish Time	Duration (HH:MM)	Overtime(HH:MM)	Job Status at Station
Assembly	Alex	2019-04-18	15:16:10		00:00	00:00	workInProgress

Job ID Job_0000000000000001

Station

UserName Alex

Date 2019-04-18

Start Time

End Time

Duration(HH:MM) 00:00

Overtime(HH:MM) 00:00

Job Status at Station

Insert Break

Start Time End Time

Figure 14: Work log event page for a closed and open record

To view and edit an individual work log record click on its (uncollapsed) row in the work log table on the job's record page.

When changing start or end times make sure the user was not clocked onto any other job at this time as the system will not prevent this. Changing the status of the log will not change the current status of the job, even if the log record being edited is the most recent.

2.11.7.1 Manually Inserting a Break

Manually adding a break will split the recorded time into two separate logs, the first ending at the start of the break and the second starting at the end of the break.

Notes:

-Both Duration and Overtime are rounded down to closest minute.

2.12 Reviewing timesheets

To review the amount of time a user has spent clocked onto jobs:

- Navigate to the 'Time Sheets' page
- Select the user from the drop down menu
- Enter the date range to be viewed
- Press the 'Fetch Time Sheet' button.

Total timed worked and overtime worked will only be displayed if users are not allowed to clock onto multiple jobs.

2.13 Scanner network connection

For Instructions on setting and changing scanner wireless network setting please see 'Work_Tracking System_Scanner_Setup_Instructions.pdf' in the software folder 'Work_Tracking_Software', a copy of which should be included in Home folder on your server.

2.14 Record Quantity Completed (configuration option at install)

The quantity of units completed can be recorded when clocking off at a scanner and then reviewed in the jobs Time Log. Recording quantity is a configuration option that can be selected at install or by updating scanners; see installation and scanner setup instructions, a copy of which should be included in 'Work_Tracking_Software' folder on your server, for information on how to select configuration options. To record quantity a USB keypad or keyboard must be connected to the rear of the scanner, if not the user won't be prompted to enter a quantity when clocking off.

2.14.1 Recording Quantity

When clocking off at a scanner, after presenting the two QR codes, if the user was successful in clocking off the screen will prompt them to enter a quantity. Using the keypad or keyboard the user should enter the quantity of units completed while clocked on followed by pressing enter. If the user does not want to enter a quantity then they can press enter without inputting a quantity value.

2.14.1.1 Multi User Clock Off

If multiple user clocking has been selected as a configuration option the user will only be prompted to enter a quantity completed if a single user is scanned and they are clocking off.

Notes:

-If there is a significant delay between key presses the scanner will timeout at this point the user has already clocked off and so no more action needs to be taken.

2.14.2 Reviewing Quantity Records

The number of units completed can be reviewed in the Work Log on the jobs Record page. By default the work log will show all individual records, if the "Collapse Record" option is selected it will shrink the table so entries for each individual station are reduced to a single row with the total number quantity completed at that station. When records are collapsed the additional column titled outstanding will be displayed which show the number of units for the job minus the number completed giving the number of units still to be completed at that station (this will not be displayed if a date range is being used). The quantity completed while clocked on can be edited on the logs record page by clicking on the entry in the work log while not collapsed.

3 Trouble shooting

3.1 Work time or duration negative

If a work time or duration is negative this indicates that users are not automatically being clocked off at midnight so, please see this troubleshooting section.

3.2 Users not being clocked off at midnight

- Confirm the start_job_tracking_server.sh script is being run correctly on the server as a crontab job and set up as in installation instructions specifies
- On the Machine the server is running on open a browser window and load page localhost/pypmyadmin
- On left hand side bar expand work tracking
- Click on Events from the options available under work_tracking in the side bar
- Ensure that 'Event scheduler status' on the page is set as ON
- Ensure that Event autoClockOff's status is ENABLED

3.3 Scanner indicator LED Red

- If there is a significant delay between presenting the QR codes the scanner will time out and indicate an error. Wait for the error message to clear and the LED to return to the light blue colour, before attempting to clock on/off again.
- If the scanner loses connection with the server the indicator LED will turn red, wait momentarily and the connection should return automatically. If the problem persists check the network connection.

3.4 Scanner indicator LED Flashing Red

- A red flashing indicator LED on start-up indicates that the screen has a malfunction, notify admin as the screen's connections need to be checked and may have to be replaced.

3.5 Add Jobs with CSV "No Request" message

- Close and restart the browser

3.6 QR code not present when linked clicked

- Notify admin.
- Check that 'Image' and 'qrcode' libraries are installed on the server.