



SYNCHRO ERP

Cast Metal Specific Software – Established in 1975

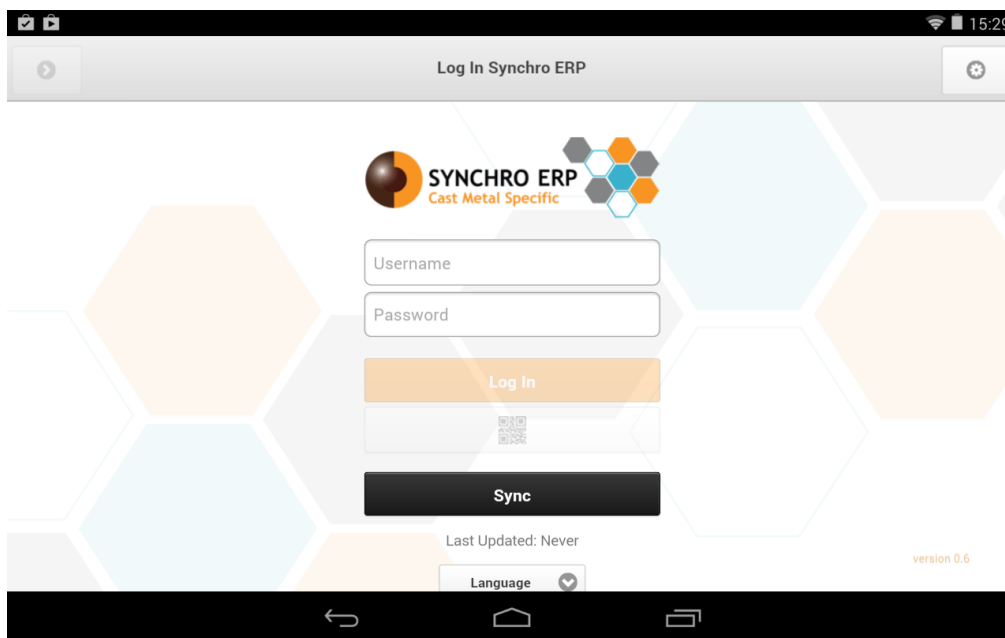
Synchro ERP

Synchro SF (Shop Floor) App

The Synchro ERP SF App has been designed to assist customers in managing bookings and data collection on the shop floor without the need to ensure network coverage. The app will sync with the network whilst in network range and hold relevant job information; the user can then perform a range of functions on iOS or Android tablet and when returning to network coverage re-sync the data to the server.

We are recommending tablets 7" or bigger running iOS version 5 or above or Android Version 2.10 or above.

The first screen shown when entering the Synchro App will be the initial login screen, which will have the ability to select a preferred language, configure the server connection details, Sync data and when synced, login to the App...



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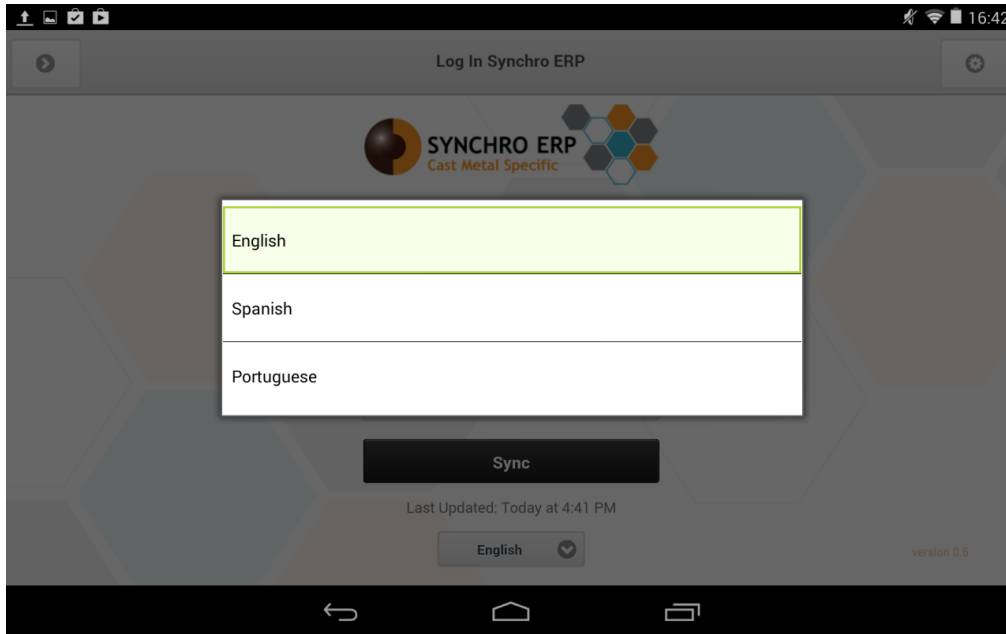
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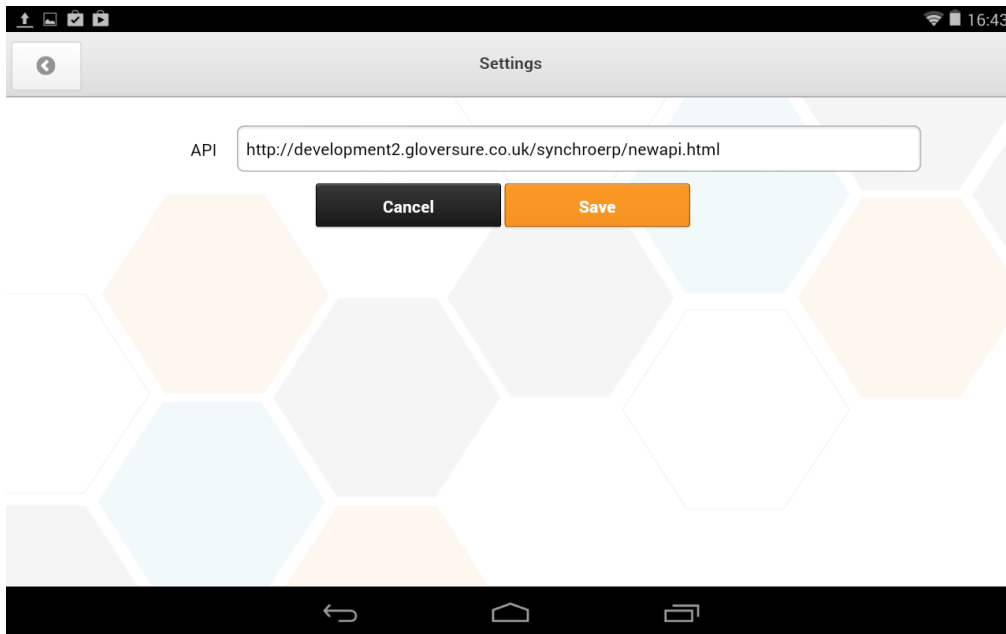
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The language selection option will allow users to select from the languages that have been enabled in the Synchro ERP Program in the example data below we can choose English, Spanish Or Portuguese...



Configuring the server connection is achieved by selecting the settings icon on the top right hand side of the login screen; this will only need to be configured once as part of the set-up process and points to the server that is hosting the Synchro DB and MySQL installation.



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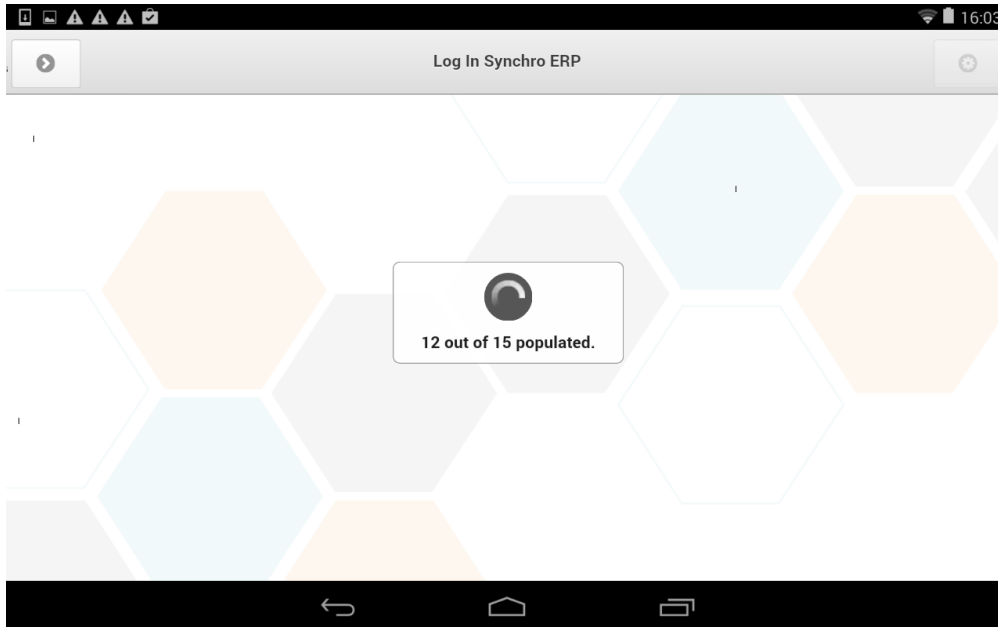
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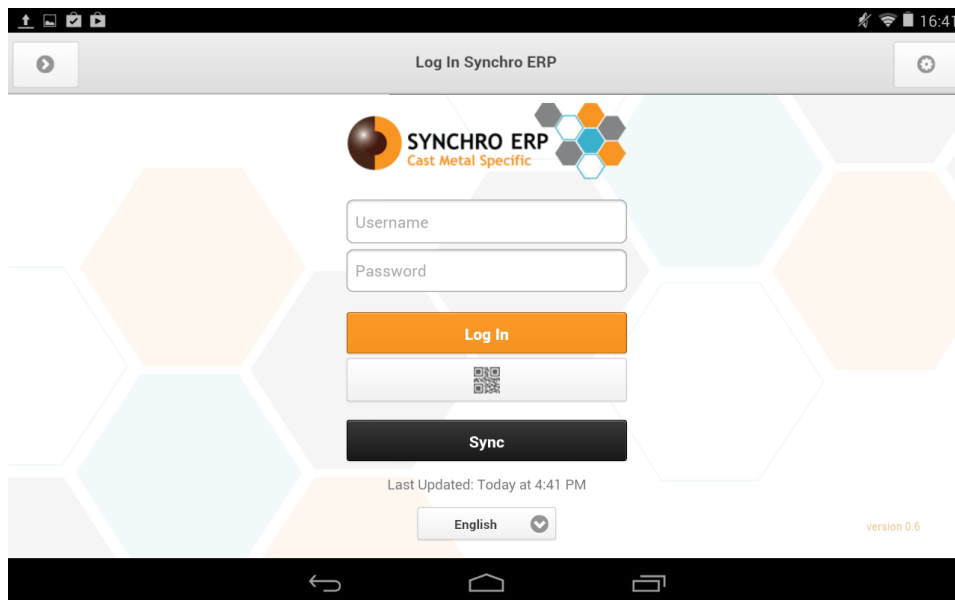
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Upon Pressing the Sync button on the main login screen the data on the server is transferred to the device and a progress indicator is displayed...



Upon successful Synchronisation the login button becomes active and the user can use their credentials (as per the Employees screen in Synchro ERP) to access the Apps functionality...



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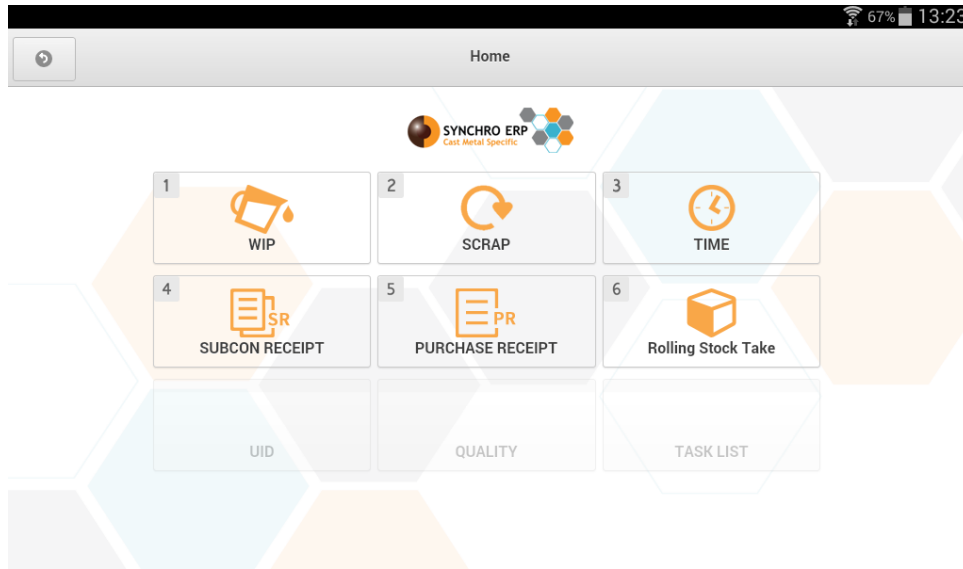
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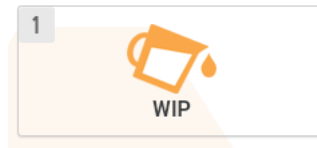
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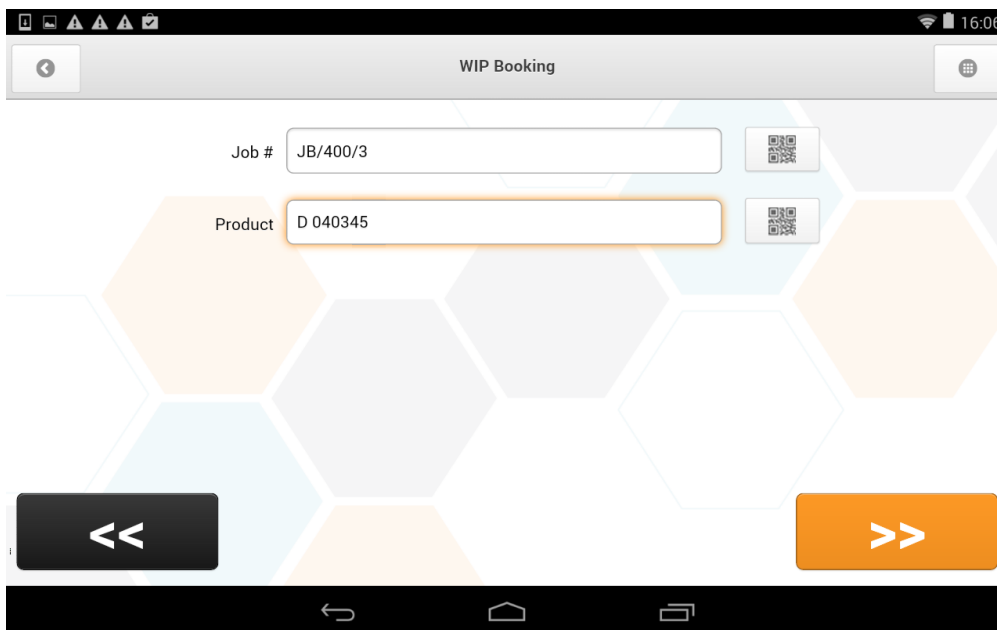
For the current release of the App we have enabled various functionality.



Access to each button is configured via the Employee's module in Synchro ERP for greater security...



Upon entering WIP booking we are prompted to enter either a Job Number or Product, again the setting within the main Software suit will default to the option selected in the pertinent Yes/No. Note that there is an icon to the right of the Job # and Product field; this allows for the entry to be made via a barcode read by the devices inbuilt camera.



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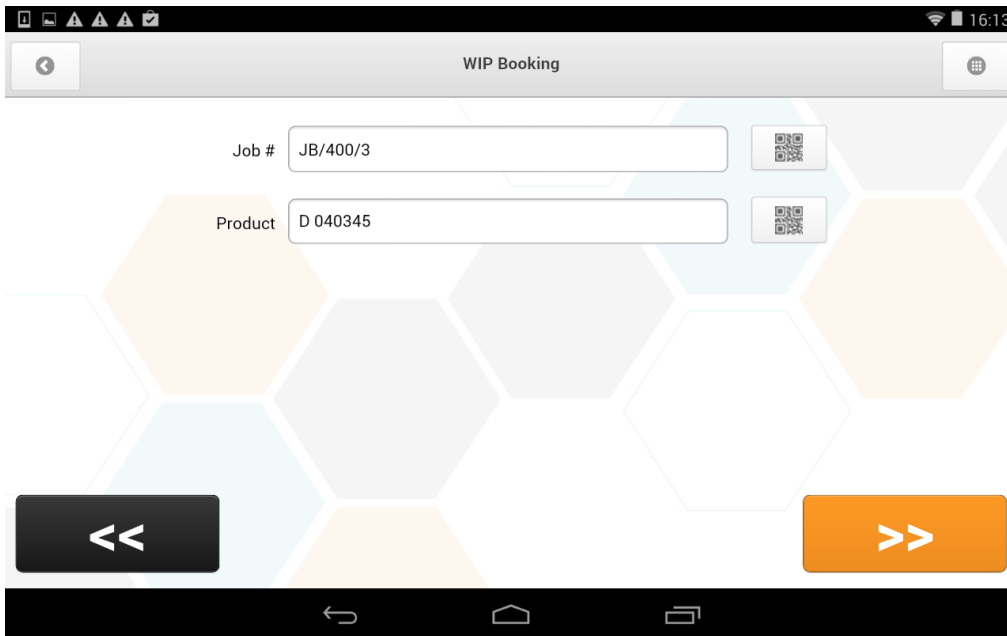
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Entering the Job # manually with the devices on screen keyboard will enable look ahead selection based on the characters typed in...



Upon completion of the correct Job # the relevant product will be displayed in the Product Field, and the next button (>>) will be enabled allowing the user to move to the next screen...



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The WIP booking screen allows the selection of the correct route (should there be more than one in active jobs), and selection of the process that is been booked the only other mandatory field is the Qty been booked...

The screenshot shows the 'WIP Booking' screen with the following fields and values:

- Booking Details: Job # JB/400/3, Product D 040345
- Route: 1
- Book Process: Squeezer
- Batch #: [Empty]
- Actual Pour Weight: [Empty]
- Qty: [Empty]
- Activity: [Empty]
- Type: [Empty]
- Comment: [Empty]
- Start Time: [Empty]
- End Time: [Empty]
- Hours: [Empty]
- Minutes: [Empty]

Selecting the Process to book against...

The screenshot shows the 'WIP Booking' screen with a dropdown menu open for selecting a process. The menu options are:

- Please Select
- Squeezer
- Dressing / Cleaning
- Inspection
- Shipping

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Additional information can be entered such as Batch # (this obeys the Yes/No rules found in the main program), Actual Pour Weight (Again obeying options from the main System), activity, type and comments...

When the next Button (>>) is pressed the screen returns to the Job / Product Selection screen for WIP booking and a message on the Right Hand Side confirms the Booking has been Made...

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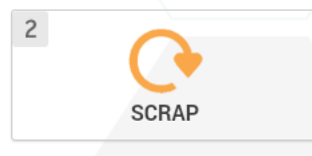
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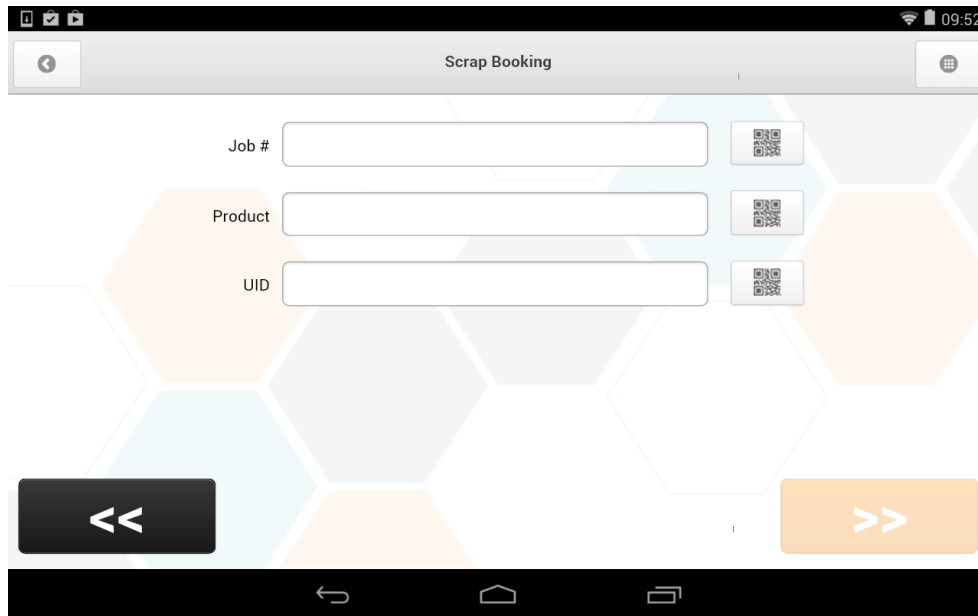
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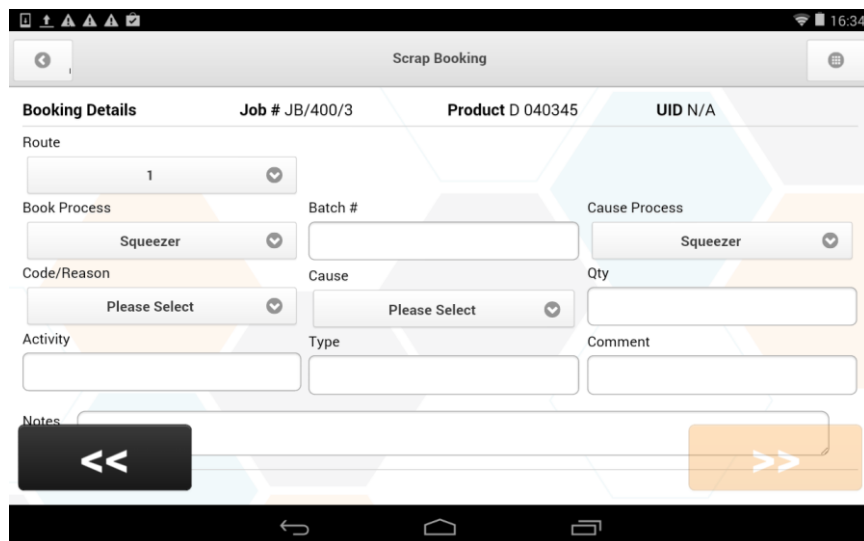
Scrap booking option for the main menu...



The following screen allows for the selection of either Job #, Product or UID, if your system is configured for UID's and you have active jobs with UID's on you can select to enter a UID, in that case the Job and Product will auto-populate with the correct values, much like if you enter a Job #the product will auto-populate....



Upon entering a valid, Job#, Product you UID you will be presented with a Scrap Booking screen that allows the selection of a route ID, a Process, a Scrap Code / Reason and optionally a Scrap Cause; the latter two items will be based on the codes used in the Main System...



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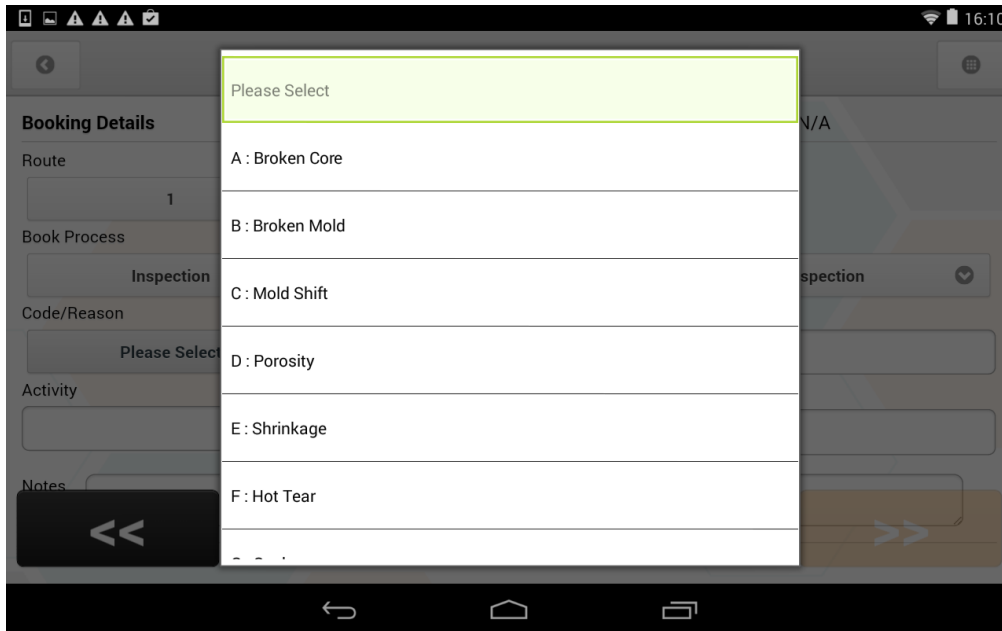
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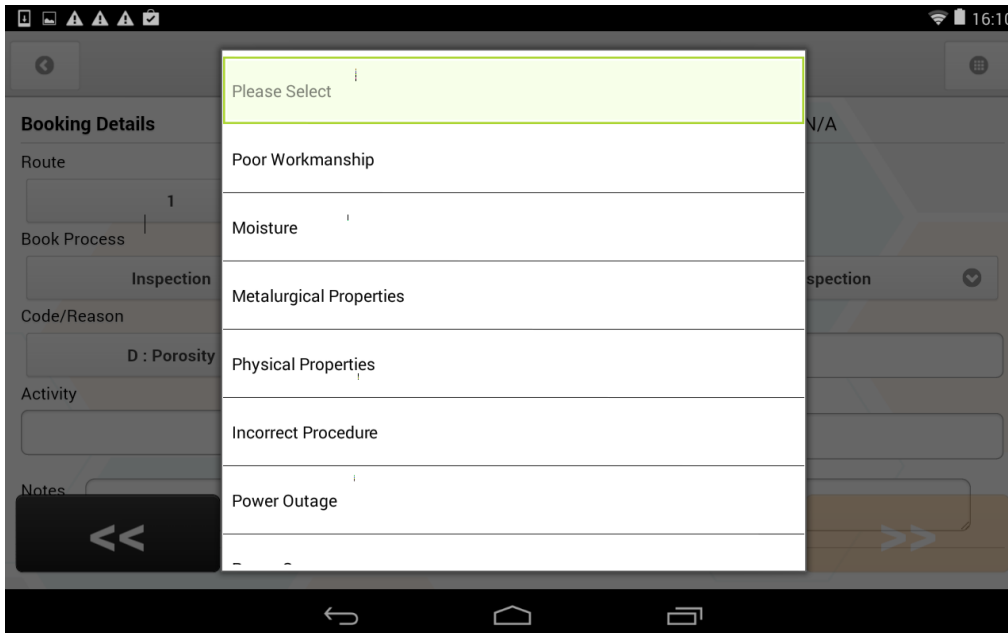
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Selecting a Scrap Code/Reason...



Selecting a Scrap Cause...



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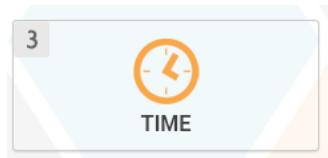
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The next Button (>>) will only become active when the mandatory fields have been entered namely Booking Process, Scrap Code /Reason and QTY. The other fields are optional...

The screenshot shows the 'Scrap Booking' screen in a mobile application. At the top, there's a header with a back arrow, the title 'Scrap Booking', and a menu icon. Below the header, the 'Booking Details' section shows 'Job # JB/400/3', 'Product D 040345', and 'UID N/A'. The 'Route' field is set to '1'. The 'Book Process' is 'Inspection', 'Cause Process' is 'Inspection', 'Code/Reason' is 'D : Porosity', and 'Cause' is 'Material Issues'. The 'Qty' is '2'. There are empty fields for 'Batch #', 'Activity', 'Type', and 'Comment'. A 'Notes' field contains the text 'Scrap notes can be added here!'. At the bottom, there are two large buttons: a black one with '<<' and an orange one with '>>'. The orange button is highlighted, indicating it's the next step.

When the booking is complete the user will be returned to the Scrap booking item selection screen and a message will display that the booking has been made.

The next option is the Time Collection Button



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Users will be presented with a selection screen much like the Scrap booking Selection screen in which they can enter either Job #, Product or UID...

Time Collection

Job # JB/400/3

Product D 040345

UID

<< >>

Upon entering valid data they will see the screen below, in which they can confirm the correct route (should more than one be active) and select the process for which they would like to record time against...

Time Collection

Booking Details Job # JB/400/3 Product D 040345 UID N/A

Route 1 Process Inspection

Start Stop

Time Collection Start Time End Time Hours Minutes

<< >>

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The timer will begin when the 'Start' Button is pressed, the 'Start Time' field will be populated and the 'End Time' field will count up for as long as the 'Stop' button is not pressed...

Time Collection

Booking Details | Job # JB/400/3 | Product D 040345 | UID N/A

Route | Process Inspection

Start **Stop**

Time Collection ... | Start Time 16:12:48 | End Time 16:12:56 | Hours 0 | Minutes 0

The user does not have to remain in the time booking screen and can at any point return to the main menu by hitting the Icon on the top right hand side of the screen (the Home Button). This may be to perform WIP bookings or Scrap bookings...

Should the user decide to do a WIP booking whilst a timer is running the Selection screen will be Auto-populated with the job that is currently being timed...

WIP Booking

Job # JB/400/3

Product D 040345

<< **>>**

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And when entering the next screen the Start and End time will have the times from the timer populated, hence the user only need to check that the Qty is correct and the booking can be made that will move the required Qty and record the time spent on the task...

WIP Booking

Booking Details Job # JB/400/3 Product D 040345

Route: 1

Book Process: Inspection

Batch #: [] Actual Pour Weight: []

EACH Qty: 2 Activity: [] Type: []

Comment: collecting inspection time

Start Time: 16:39:00 End Time: 17:18:00 Hours: 0 Minutes: []

Next is Subcon Receipt



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Select the 'Subcon Receipt' button for the main menu

The screenshot shows a mobile application interface for a 'SubCon receipt'. At the top, there is a status bar with signal strength, 65% battery, and the time 13:43. Below the title bar, there are two dropdown menus: 'Supplier' with the value 'SHANE'S POWDER COATING SERVICE' and 'Product' with the value '001-ANCAST DEMO PART'. To the right of each dropdown is a QR code icon. Below these is a 'Description' field containing the text 'This is an Ancast Part'. At the bottom of the form, there are two large buttons: a black one with a left-pointing double arrow and an orange one with a right-pointing double arrow.

In the follow on window you can now select the Supplier and Product. Press the next arrow to proceed

The screenshot shows the next screen of the 'SubCon receipt' form. It features several input fields: 'Qty' (2), 'Unprocessed Qty' (0), 'Maximum' (2), 'Booking Date' (14/07/2015), 'Delivery Note Number' (12345), and 'Weight Received' (6(KG)). There are also empty fields for 'Spare 1' and 'Spare 2'. A 'Notes' field contains the text 'Late delivery'. At the bottom, there is a 'Received By:' dropdown menu with the value 'jm'. The same black and orange navigation buttons are present at the bottom.

Enter the various quantities, booking date and any other required information and click on the next arrow to validate the entry ready for another entry if required

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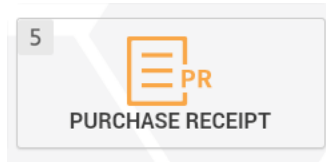
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Purchase Receipt is the next available button



Select the 'Purchase Receipt' button for the main menu

Purchase receipts

Supplier: Sands R Us

Date Received: 14/07/2015

Delivery Ref: D3456

Received By: jm

Released By:

In this next window you can now select the supplier, Date received, Delivery reference before clicking next

PO Receipt

Supplier Sands R Us

PO Number	Item Name	Agreed Detail	Agreed Date	Outstanding QTY	UOM
PO#0032	Bronze	This is bronze used in the furnace.	28/06/2012 15:53:49	7	KG
PO#0035	Ductile Ingot - Metal		13/08/2012	400000	KG

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From the list presented to you choose which item to receive by selecting it. Once selected the item turns purple. Click Next

PO Receipt

PO Number PO#0035 Purchased Item Ductile Ingot - Out Qty 400000 Metal

Received Qty: 500 Mark Complete

Quarantine

Location: batch Certificate: R45789

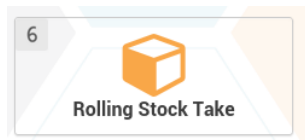
Comments: Split bag

Navigation: << + >>

Enter the quantity to receive as well as any other desired information

You then have the choice to select Next to return to the first window in order to receive more items from a different supplier or select the '+' to receive more items from the currently selected supplier

We now have the option to do a Materials Rolling Stock Take



Select the 'Rolling Stock Take' button for the main menu

Rolling Stock Take

Warehouse: WAREHOUSE-001

Location: SUBLOCATION-BBB

Locations:

- LOCATION-AAA
- SUBLOCATION-BBB

Navigation: << >>

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Using the dropdown fields first select a warehouse and then a location. Click on the arrow to the right of the Location field to select a sub location. The information selected is confirmed in writing and the next arrow becomes live ready for clicking. Select it to move to the next window.

Rolling Stock Take

Warehouse:: WAREHOUSE-001 Location:: LOCATION-AAA > SUBLOCATION-BBB

Material Name	Material Code	Agreed Detail	UOM	Batch Number	Batch Qty	Count Qty
Aluminum Scrap			KG	BT/92	300.89	0
CHAPLET TYPEA	CHAPLET			BT/116	599	0
CHAPLETB	CHAPLET			BT/118	499	0
Exothermic Sleeves	25 x 150	Insulating sleeve	EACH	BT/121	449	0
Acetylene	WELD	Acetylene for Welding		BT/122	400	0

Navigation: << [QR Code] **+** >>

The user is then presented with a list of available materials in the selected sub location; Edit the quantities in the fields provided on the right. To add a batch simply click the '+' button...

Rolling Stock Take

Warehouse:: WAREHOUSE-001 Location:: LOCATION-AAA > SUBLOCATION-BBB

Material Name: Aluminum Ignots

Makeup Code: [Dropdown]

Count Qty: 2

UOM: KG

Navigation: << **>>**

Enter the Material Name, quantity and confirm the UOM. Click the '>>' arrow to confirm the batch and return the previous window

When all batches are confirmed for that sub location click the '>>' arrow to return to the first window ready to begin this process again with a different location

The Synchro SF App will be continually expanded and further phases has already been planned and designed. We will be keen to hear user feedback for future releases.

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