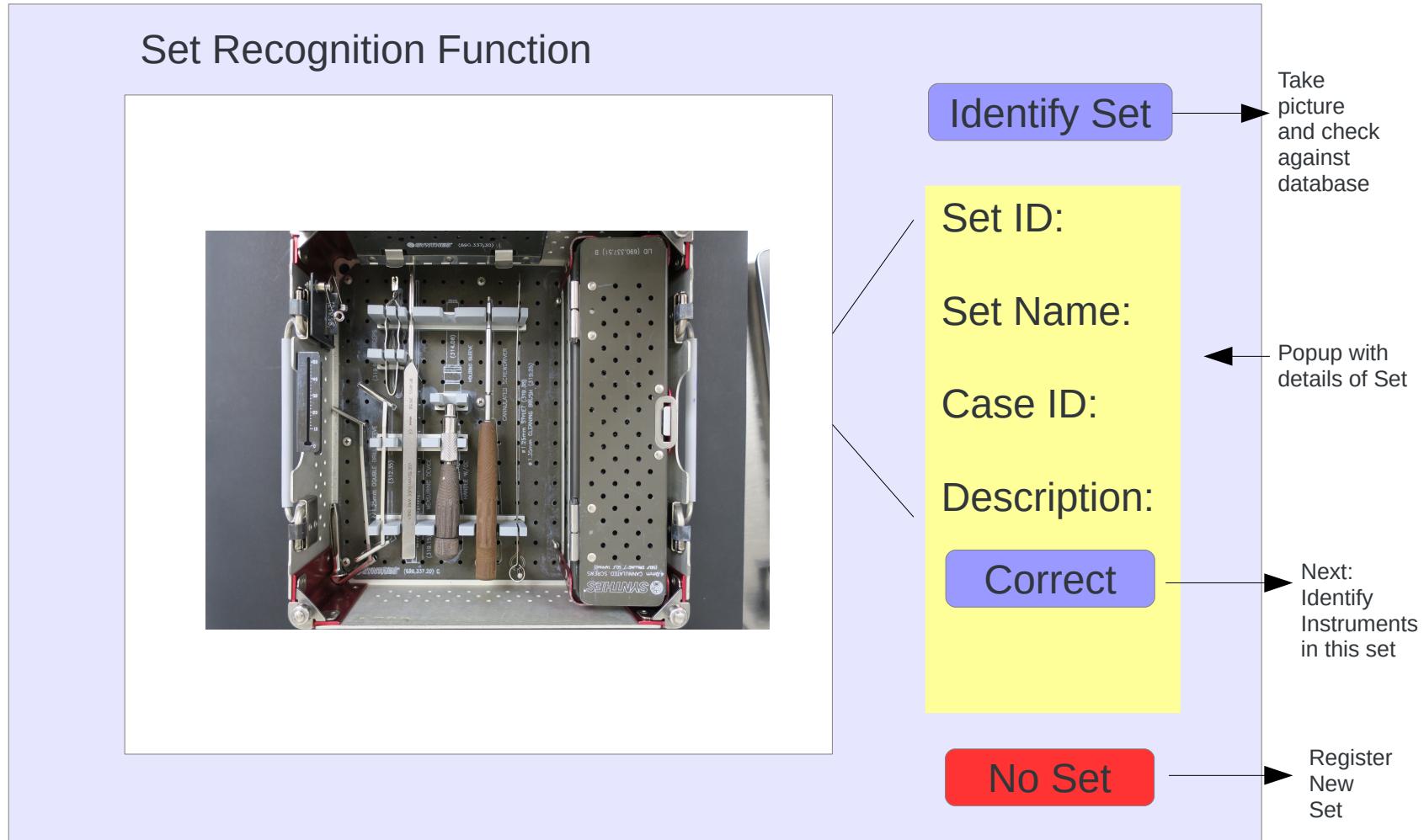


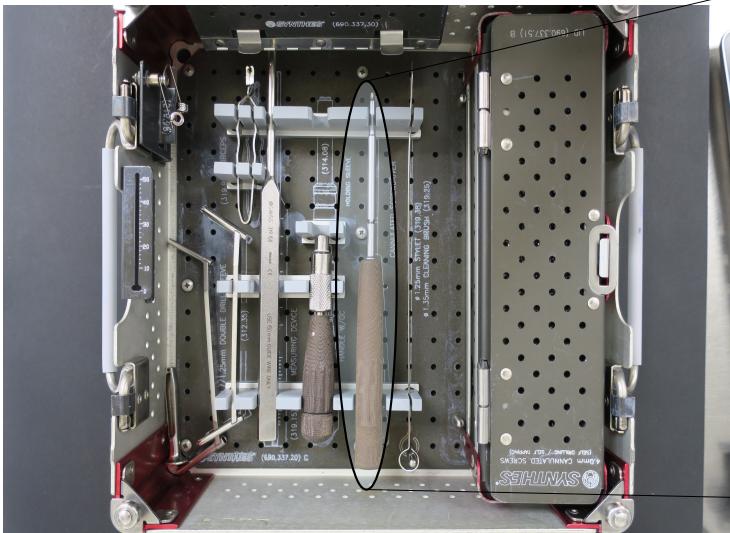
We have been asked by our client to demo a prototype system. Only the core functionality needs to be demonstrated, which is checking for presence or absence of instruments in a surgical set. This looks like the following:

Step 1: Capture surgical set Image from USB Camera, simple screen design:



Step 2: Once Set is identified correctly, check for presence / absence of each instrument in set:

## Set Recognition Function



Identify Instruments

Scan  
picture and  
check  
presence /  
absence of  
each  
instrument

Instrument present

Instrument ID:

Name:

Type:

Description:

Confirm

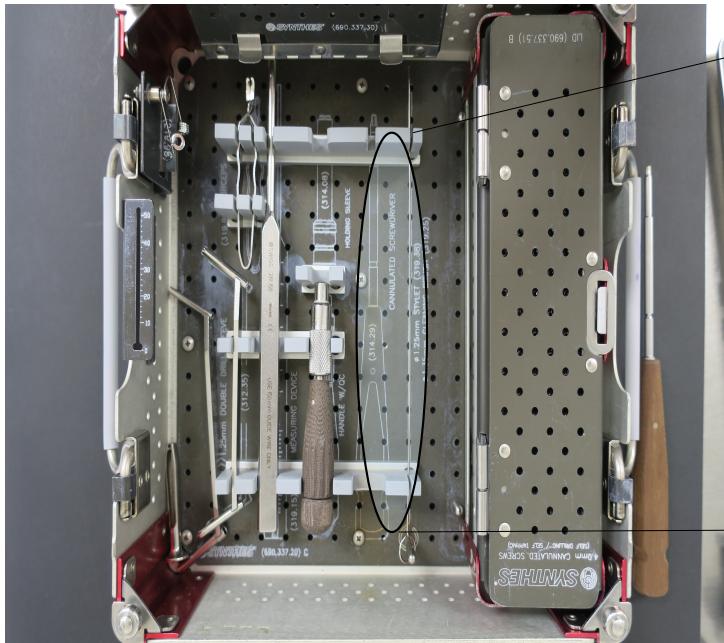
Popup with  
details of each  
Instrument

Next

Next  
Instrument

If any instrument is missing, flag this absence:

## Set Recognition Function



Identify Instruments

Instrument Absent

Instrument ID:

Name:

Type:

Description:

Re-check

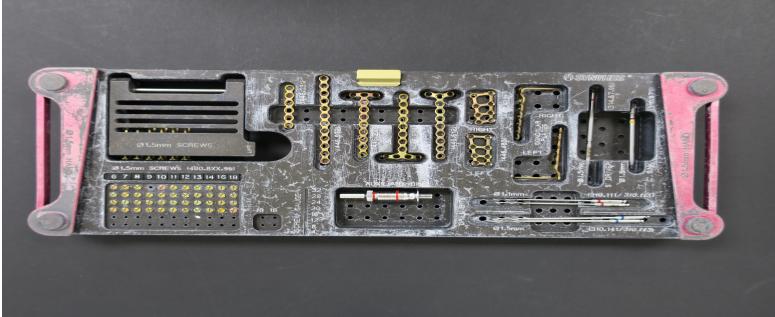
Popup with  
details of each  
Instrument

Next

Next  
Instrument

If no set is identified in Step 1, register a new set:

## Set Registration Function



Enter Details

Set ID:

Set Name:

Case ID:

Description:

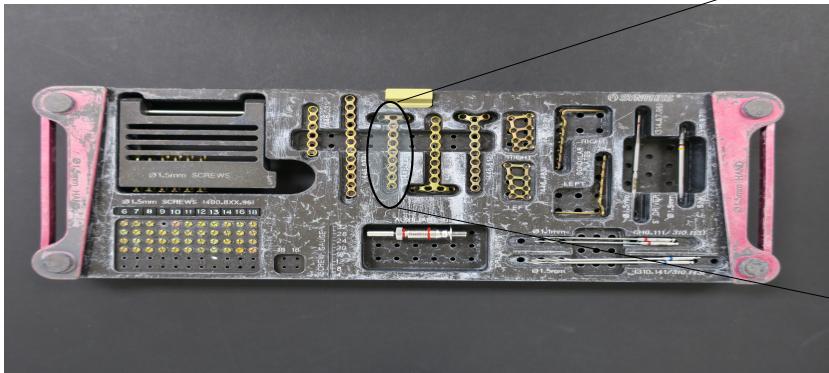
**Register Set**

Next:  
Register  
Instruments

Save  
Image &  
Details to  
Database

Register polygon / bounding box outlines of each instrument in this set:

## Set Registration Function



Enter Details

Instrument ID:

Name:

Type:

- Array
- Bin
- Discrete
- Manual

Description:

Next

Next  
Instrument

Save

Save  
Instrument  
polygon  
and  
Details to  
Database

The final system will have all the requisite modules:

1. User Registration and Permissions
2. System Setup
3. Register Sets
4. Recognise Sets
5. Train Model System
6. Scan Sets for Completeness
7. MRP & Inventory Management System
8. Billing System

At this stage however, the client only wants to see that the system can perform the core functionalities as above. They want it as simple as possible, but it must work effectively.

We have our own ideas on how this can be accomplished, but we want to send all the development work to you in India while we focus on market development and client training in New Zealand. Splitting the system development work between the two regions will be inefficient and ultimately unfeasable.

We would therefore like you to evaluate how the functionality can be achieved based on your team's capabilities and experience, and to provide us with a solution. We are happy to pay for this prototype testing work, and to use this experience to finalise the full solution.

We can provide more data once you have examined this, including data models, surgical set images, UI requirements, etc. Happy to discuss anytime you are free.