**Image naming conventions:**

userid\_front\_view.jpg

userid\_with\_shoulder\_straight.jpg

userid\_with\_shoulder\_back.jpg

userid\_with\_legs\_apart.jpg

userid\_side\_view.jpg

**Validation Code:**

location of i/p image:Device

code on server /project/src/validation

output on server /project/output\_dir/image\_error\_details

/project/output\_dir/success\_images/

**Input** : Raw thermal Image

**Conditions inside code:**

Check for clarity of the image.

Check for the Postures of the images(need to have a configuration file with possible postures)

Angles of Images?

**Decision of code:**

If any of the conditions fails request click again with the details of image\_error(continue till error is nulled)

If any of the condition succeeds save the image with proper naming.

example :if it satisfies side view save it as usedrid\_side\_view.img

Continue to next image and proceed with above steps.

**Image Processing Code:**

code location on server - /project/src/image\_proceesing/

I/p files location - /project/output\_dir/success\_images/

o/p files location -/project/output\_dir/userid\_measurements/

**neck\_detect.m**

Input - userid\_front\_view.jpg

output -full\_length, neck\_ length, neck \_round

**shoulder\_detect.m**

Input - userid\_shoulder\_back.jpg

output - shoulder\_length

**chest\_detect.m**

Input - userid\_arms\_straight.jpg

output - chest\_length,chest\_round

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**waist\_detect.m**

Input - userid\_arms\_straight.jpg

output - waist\_length,waist\_round

**hip\_detect.m**

Input - userid\_arms\_straight.jpg

output - hip\_length,hip \_round

**arm\_detect.m**

Input - userid\_arms\_straight.jpg

output - full\_arm\_length,full\_arm\_round,half\_arm\_length,half\_arm\_round,threefourth\_arm\_length,threefourthe\_arm\_round,arm\_hole\_around

**knee\_detect.m**

Input - userid\_with\_legs\_apart.jpg

output -knee\_length,knee\_round

**thigh\_detect.m**

Input - userid\_with\_legs\_apart.jpg

output - thigh\_length,thigh\_round

**ankle\_detect.m**

Input - userid\_with\_legs\_apart.jpg

output -ankle\_length,ankle\_round