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| Use-Case # | Uc-001 |
| Description | Camera will capture the images |
| Pre-Condition | Camera should be powered on |
| Use-Case | |  |  | | --- | --- | | Camera will capture the images | Image captured into the camera | |
| Post-Condition | Data will be uploaded to the servers. |

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| Use-Case # | Uc-002 |
| Description | Data will be uploaded onto the server |
| Pre-Condition | Image should be captured and the camera is connected to the server. |
| Use-Case | |  |  | | --- | --- | | Data uploaded on server | Images saved on server | |
| Post-Condition | System will fetch data from the server |

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| Use-Case # | Uc-003 |
| Description | System will fetch image |
| Pre-Condition | System should be connected to cloud |
| Use-Case | |  |  | | --- | --- | | Images ready to be processed | Images will be opened into the system | |
| Post-Condition | Image will be processed |

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| Use-Case # | Uc-004 |
| Description | Noise removal of the images |
| Pre-Condition | Image should in process |
| Use-Case | |  |  | | --- | --- | | Noise Removal | It will remove the noise from the image | |
| Post-Condition | Output image with noise removed |

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| Use-Case # | Uc-005 |
| Description | Convert image into greyscale |
| Pre-Condition | Image should be in process |
| Use-Case | |  |  | | --- | --- | | Conversion to greyscale | The image will be converted into greyscale. | |
| Post-Condition | Output image into greyscale |

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| Use-Case # | Uc-006 |
| Description | Setting threshold |
| Pre-Condition | Image should be converted into greyscale |
| Use-Case | Set Threshold value | Threshold value will be set |
| Post-Condition | Threshold value adjusted |

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| Use-Case # | Uc-007 |
| Description | Conversion to Binary |
| Pre-Condition | Image should be in grayscale format |
| Use-Case | Converting image to Binary | Image will be converted into binary form |
| Post-Condition | Image converted into binary |

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| Use-Case # | Uc-008 |
| Description | Calculating Teeth’s of gear |
| Pre-Condition | Image should be in binary format |
| Use-Case | |  |  | | --- | --- | | Calculating number of teeth of gear using edge detection algorithms | Report will be generated | |
| Post-Condition | Number of teeth |

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| Use-Case # | Uc-009 |
| Description | Calculating size of gear |
| Pre-Condition | Image should be in binary format |
| Use-Case | Calculating size of gear | Report will be generated |
| Post-Condition | Diameter of the gear in float |

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| Use-Case # | Uc-0010 |
| Description | Calculate Surface roughness |
| Pre-Condition | Image should in binary form |
| Use-Case | |  |  | | --- | --- | | Calculating surface roughness of gear | Report will be generated | |
| Post-Condition |  |