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## AddROI

*(Tags: @FR, @FR008, @UR008, @Analysis)*

### AddCariesROICursorAppearanceChange

*(Tags: @FR008-1, @UR008-1)*

**Given** I have submitted an image

**When** click the Add ROI button

**Then** the Add ROI button changes appearance

**And** the Cursor changes appearance to a crosshair

### AddCariesROICursorAppearanceReturn

*(Tags: @FR008-2, @UR008-1)*

**Given** I have selected the Add ROI Button

**When** I hit select the Add ROI button again or any other button

**Then** the Add ROI button changes appearance back to original

**And** the Cursor changes appearance back to default

### AddCariesROI

*(Tags: @FR008-3, @UR008-1)*

**Given** I have selected the Add ROI Button

**When** I move the cursor to the image and click

**Then** a new ROI is display with the arrow point at the mouse click

**And** pointing away from the nearest tooth centre

**And** the Add ROI button changes appearance back to original

**And** the Cursor changes appearance back to default

## AnalysisProgressIndicator

*(Tags: @FR, @FR024, @UR022, @Analysis, @WebOnly)*

### ShowFileUploadProgress

*(Tags: @FR024-1, @UR022-1, @WebOnly)*

**Given** I have logged in with analysis permissions

**When** I submit an image for analysis

**Then** I can see a progress bar

**And** the progress bar fills from left to right until completely full

**When** the progress bar is full

**Then** the image is displayed

**And** the progress bar is hidden

### ShowAnalysisProgress

*(Tags: @FR024-2, @UR022-2)*

**Given** I have submitted an image for analysis

**When** the image is displayed

**Then** the status of the analysis is displayed over the image

**When** the analysis progresses

**Then** the status is updated to reflect the stage of the analysis

## Anonymise DICOM Images

*(Tags: @FR, @FR011, @UR011, @Security, @WebOnly)*

### AnonymiseDICOMImage

*(Tags: @FR011-1, @UR011-1)*

**When** I submit a DICOM Image

**Then** the trace information in the web browser indicates an empty patient name and default birth date

**And** the trace information displayed on the web server indicates an empty patient name and default birth date

## AuthorisationAccess

*(Tags: @FR, @FR020, @UR017, @Security, @WebOnly)*

### AnonymousCanAccessHomepage

*(Tags: @FR020-1, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>

**Then** the assistdent.net home page is displayed

### AnonymousCanAccessTour

*(Tags: @FR020-2, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>/tour

**Then** the assistdent.net tour page is displayed

### AnonymousCanAccessLegal

*(Tags: @FR020-3, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>/legal

**Then** the assistdent.net legal page is displayed

### AnonymousCanAccessContact

*(Tags: @FR020-4, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>/contact

**Then** the assistdent.net contact page is displayed

### AnonymouseCannotAccessAnalysis

*(Tags: @FR020-5, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>/analysis

**Then** the assistdent.net login page is displayed

### AnonymouseCannotAccessFeedback

*(Tags: @FR020-6, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>/feedback/new

**Then** the assistdent.net login page is displayed

### AnonymouseCannotAccessManageUsers

*(Tags: @FR020-7, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>/user

**Then** the assistdent.net login page is displayed

### AnonymousCannotAccessAllowedIPs

*(Tags: @FR020-8, @UR017-1)*

**Given** I am logged out

**And** no Allowed IP Range exists which includes my IP address

**When** I access <base url>/allowedips

**Then** the assistdent.net login page is displayed

### UserCanAccessAnalysis

*(Tags: @FR020-9, @UR017-1)*

**Given** I am logged in with a username and password

**And** I have analysis permissions

**When** I access <base url>/analysis

**Then** the assistdent.net analysis page is displayed

### UserCanAccessFeedback

*(Tags: @FR020-10, @UR017-1)*

**Given** I am logged in with a username and password

**And** I do not have admin permissions

**When** I access <base url>/feedback/new

**Then** the assistdent.net feedback page is displayed

### UserCannotAccessManageUsers

*(Tags: @FR020-11, @UR017-1)*

**Given** I am logged in with a username and password

**And** I do not have admin permissions

**When** I access <base url>/user

**Then** the assistdent.net login page is displayed

### UserCannotAccessAllowedIPs

*(Tags: @FR020-12, @UR017-1)*

**Given** I am logged in with a username and password

**And** I do not have admin permissions

**When** I access <base url>/allowedips

**Then** the assistdent.net login page is displayed

### AdminCanAccessManageUsers

*(Tags: @FR020-13, @UR017-1)*

**Given** I am logged in with admin permissions

**When** I access <base url>/user

**Then** the assistdent.net manage users page is displayed

### AdminCanAccessAllowedIPs

*(Tags: @FR020-14, @UR017-1)*

**Given** I am logged in with admin permissions

**When** I access <base url>/allowedips

**Then** the assistdent.net allowed ips page is displayed

### UserRefusedAccessAnalysis

*(Tags: @FR020-15, @UR017-2)*

**Given** I am logged in with a username and password

**And** I do not have analysis permissions

**When** I access <base url>/analysis

**Then** the assistdent.net analysis page is not displayed

## AuthorisationAccess

*(Tags: @FR, @FR023, @UR017, @Security, @WebOnly)*

### UserCanAccessLogin

*(Tags: @FR023-1, @UR017-1)*

**Given** I am logged out

**When** I click the Login link

**Then** I am redirected to the login page

### UserCannotLoginWithIncorrectPassword

*(Tags: @FR023-2, @UR017-1)*

**Given** I am logged out

**And** I have navigated to the login page

**When** I enter my username

**And** I enter an invalid password

**Then** I am not granted access

**And** I remain on the login page

### UserCannotLoginWithIncorrectUsername

*(Tags: @FR023-3, @UR017-1)*

**Given** I am logged out

**And** I have navigated to the login page

**When** I enter an invalid username

**And** I enter a valid password for another user

**Then** I am not granted access

**And** I remain on the login page

### UserCanLoginWithCorrectCredentials

*(Tags: @FR023-4, @UR017-1)*

**Given** I am logged out

**And** I have navigated to the login page

**When** I enter an valid username

**And** I enter a valid password

**Then** I am redirected to another page

**When** I click the Analysis link

**Then** I have access to the Analysis page

## BypassLogin

*(Tags: @FR, @FR013, @UR013, @Security, @WebOnly)*

### CanAnalyzeFromAllowedIPAddress

*(Tags: @FR013-1, @UR013-1)*

**Given** the current computer IP is specified exclusively by a single Allowed IP Range using exact IP address

**And** I am logged out of the application

**When** I access the URL <base>/Analysis

**Then** the analysis page is displayed

**When** I submit an image

**Then** the image and results are displayed

### CanAnalyzeFromAllowedIPRange

*(Tags: @FR013-2, @UR013-1)*

**Given** the current computer IP is specified exclusively by a single Allowed IP Range within a range of addresses

**And** I am logged out of the application

**When** I access the URL <base>/Analysis

**Then** the analysis page is displayed

**When** I submit an image

**Then** the image and results are displayed

### CantAnalyzeFeomNoAllowedIP

*(Tags: @FR013-3, @UR013-2)*

**Given** the current computer IP is not covered by any Allowed IP Range entry

**And** I am logged out of the application

**When** I access the URL <base>/Analysis

**Then** the login page is displayed

### CantAnalyzeFromExpiredAllowedIP

*(Tags: @FR013-4, @UR013-3)*

**Given** the current computer IP is specified exclusively by an Allowed IP Range which is expired

**And** I am logged out of the application

**When** I access the URL <base>/Analysis

**Then** the login page is displayed

## CommandLineInterface

*(Tags: @FR, @FR026, @UR024, @Integration, @DesktopOnly)*

### PassImage

*(Tags: @FR026-1, @UR024-1)*

**When** I request AssistDent from the command line

**And** the --image option is set to "image8.tif"

**Then** AssistDent starts

**And** the image analyzed is "image8.tif"

### PassTitle

*(Tags: @FR026-2, @UR024-1)*

**When** I request AssistDent from the command line

**And** the --title option is set to "Developer/Dave"

**Then** AssistDent starts

**And** the window title contains the text "Developer/Dave"

## ControlButtonTooltips

*(Tags: @FR, @FR010, @UR010, @Labelling, @WebOnly)*

### ShowTooltip

*(Tags: @FR010-1, @UR010-1)*

**Given** an analyzed bitewing image

**When** I hover over the <button name> button

**Then** a tooltip with the text <tooltip text> appears above the button

### Examples:

|  |  |
| --- | --- |
| button name | tooltip text |
| toggle | Hide |
| delete | Delete |
| flip | Flip |
| add | Add |
| full | Full Screen |

## CustomerPayment

*(Tags: @FR, @FR031, @UR029, @Admin, @DesktopOnly)*

### TakePaymentUK

*(Tags: @FR031-1, @UR029-1)*

**Given** I have register a trial licence for a UK user

**When** I access the purchase licence page

**And** choose the default price

**Then** the payment is in GBP

**And** UK VAT is applied

### TakePaymentEU:

*(Tags: @FR031-2, @UR029-2)*

**Given** I have register a trial licence for an EU user

**When** I access the purchase licence page

**And** choose the default price

**Then** the payment is in Euros

**And** UK VAT is not applied

### ViewInvoiceUK:

*(Tags: @FR031-3, @UR029-3)*

**Given** I have paid for a subscription for a UK user

**When** I access my billing portal

**Then** I can view an invoice for each month

**And** the invoice contains the price paid

**And** the invoice contains the customer name and address

**And** the invoice contains the VAT amount

**And** the invoice contains the MIL VAT number

### ViewInvoiceEuro:

*(Tags: @FR031-4, @UR029-4)*

**Given** I have paid for a subscription for an EU user

**When** I access my billing portal

**Then** I can view an invoice for each month

**And** the invoice contains the price paid

**And** the invoice contains the customer name and address

**And** the invoice contains a statement regarding reverse tax

## DeleteROI

*(Tags: @FR, @FR006, @UR006, @Analysis)*

### DisplayDeleteButton

*(Tags: @FR006-1, @UR006-1, @WebOnly)*

**Given** 2 submitted bitewing images

**Then** the images shall be displayed in tile view

**And** a delete button shall be displayed alongside each image

### DeleteROI

*(Tags: @FR006-2, @UR006-1)*

**Given** an analyzed bitewing image which contains caries ROIs

**When** I select an ROI

**And** click the delete button corresponding to that image

**Then** the selected caries ROI will be deleted

### DeleteROIs

*(Tags: @FR006-3, @UR006-1)*

**Given** an analyzed bitewing image which contains caries ROIs

**When** I select 2 or more ROIs

**And** click the delete button corresponding to that image

**Then** the selected caries ROIs will be deleted

## DesktopLicensing

*(Tags: @FR, @FR027, @UR025, @Admin, @DesktopOnly)*

### RegisterUser

*(Tags: @FR027-1, @UR025-1)*

**Given** no licence exists for the current machine

**When** I start the desktop app

**Then** the user registration form is displayed

**When** I enter the registration details

**Then** the desktop app starts

### ExpiredLicenceRestrictsAccess

*(Tags: @FR027-2, @UR025-2)*

**Given** a licence exists for the current machine

**And** the licence is expired

**When** I start the desktop app

**Then** a message tells me to upgrade

### ExpiredLicenceRedirectsToUpgrade

*(Tags: @FR027-3, @UR025-3)*

**Given** a licence exists for the current machine

**And** the licence is expired

**When** I start the desktop app

**Then** the upgrade trial licence web page is displayed

### ManualUpgradeAvailable

*(Tags: @FR027-4, @UR025-3)*

**Given** a licence exists for the current machine

**And** the licence is not expired

**When** I start the desktop app

**Then** the menu includes an option to upgrade

### ManualUpgradeLinksToStore

*(Tags: @FR027-5, @UR025-3)*

**Given** a licence exists for the current machine

**And** the licence is not expired

**And** I have started the desktop app

**When** I choose the menu option "Upgrade Licence"

**Then** the upgrade trial licence web page is displayed

**And** the choice of upgrade options is approriate to my country

### ValidLicence

*(Tags: @FR027-6, @UR025-4)*

**Given** a licence exists for the current machine

**And** the licence is not expired

**When** I start the desktop app

**Then** the desktop app opens

### DisplayLicence

*(Tags: @FR027-7, @UR025-5)*

**Given** a licence exists for the current machine

**And** the licence is not expired

**When** I open the About Box

**Then** the licence key is displayed

**And** the licence expiry date is displayed

**And** the licensee is displayed

### EnterNewLicenceKey

*(Tags: @FR027-8, @UR025-6)*

**Given** a licence exists for the current machine

**And** the licence is not expired

**And** I have started the desktop app

**When** I open the About Box

**And** I click Enter Key

**And** I enter a new valid key from the same CryptoLens product

**Then** the key is accepted

**When** I restart the application

**Then** the application restarts

### EnterNewLicenceKeyNewProduct

*(Tags: @FR027-9, @UR025-6)*

**Given** a licence exists for the current machine

**And** the licence is not expired

**And** I have started the desktop app

**When** I open the About Box

**And** I click Enter Key

**And** I enter a new valid key prefixed with a new product id in the form "{product-id}:{licence-key}"

**Then** the key is accepted

**When** I restart the application

**Then** the application restarts

### PurchaseLicenseExtension

*(Tags: @FR027-10, @UR025-7)*

**When** I choose the Purchase Upgrade menu option

**And** I fill in my payment details

**And** I complete the purchase

**And** I restart the desktop app

**Then** the license period is extended by the amount specified for the purchased product

### ConfigureTrialPeriod

*(Tags: @FR027-11, @UR025-8)*

**Given** no licence exists for the current machine

**When** I configure the store app to generate a <num1> day(s) licence

**And** I register for a trial licence

**Then** the licence expiry date can be seen in the application

**And** the expiry date is in <num2> day(s)

### Examples:

|  |  |
| --- | --- |
| num1 | num2 |
| 1 | 1 |
| 14 | 14 |
| 30 | 30 |

## DetectionLogging

*(Tags: @FR, @FR021, @UR019, @Admin, @WebOnly)*

### ViewLoggedUserDetection

*(Tags: @FR021-1, @UR019-1)*

**Given** I am logged in with admin permissions

**And** I access <base>/analysis

**And** I submit 1 image and receive the results

**When** I access <base>/User

**And** click the Details link next to my username

**Then** I see a list of detections

**And** the list of detections includes an entry for the analysis performed

### ViewLoggedAllowedIPDetection

*(Tags: @FR021-2, @UR019-2)*

**Given** I am not logged on

**And** an Allowed Ip exists for my computer

**And** I access <base>/analysis

**And** I submit 1 image and receive the results

**When** I log on with admin permissions

**And** I access <base>/AllowedIPs

**And** click the Details link next the the Allowed IP for my computer

**Then** I see a list of detections

**And** the list of detections includes an entry for the analysis performed

## DICOMImageFormat

*(Tags: @FR, @FR017, @UR016, @Analysis, @WebOnly)*

### CanAnalyseTiffImages

*(Tags: @FR017-1, @UR016-1, @UR016-4)*

**Given** I have logged in with analysis permissions

**When** I enter URL <base>/Analysis

**And** click the Select File area

**And** browse for a a bitewing image in DICOM format

**And** submit the image

**Then** the image is displayed correctly

**And** the results are displayed

## DisplayImage

*(Tags: @FR, @FR001, @UR001, @Analysis)*

The image shall be displayed on screen

### DisplayImage

*(Tags: @FR001-1, @UR001-1)*

**Given** a bitewing image

**When** submitted for analysis

**Then** the bitewing image is displayed on screen

### DisplayImages

*(Tags: @FR001-2, @UR001-2, @WebOnly)*

**Given** multiple bitewing images

**When** submitted for analysis

**Then** all bitewing images are displayed on screen

## FeatureTour

*(Tags: @FR, @FR012, @UR012, @Labelling, @WebOnly)*

### StartFeatureTour

*(Tags: @FR012-1, @UR012-1)*

**When** I access the tour URL

**Then** the tour starts

### RetakeFeatureTour

*(Tags: @FR012-2, @UR012-1)*

**When** I access the tour URL a subsequent time

**Then** the tour starts

### FollowFeatureTour

*(Tags: @FR012-3, @UR012-1)*

**Given** the tour is started

**When** I press Next

**Then** the tour moves to the next step

**And** I can repeatedly press next until the end of the tour is reached

## FullScreen

*(Tags: @FR, @FR005, @UR005, @Analysis, @WebOnly)*

The image shall be displayed expanded to fill as much of the screen as possible

### AccessFullScreen

*(Tags: @FR005-1, @UR005-1)*

**Given** 2 submitted bitewing images

**Then** the images shall be displayed in tile view

**And** an expand button shall be displayed alongside each image

### EnterFullScreen

*(Tags: @FR005-2, @UR005-1)*

**Given** 2 images displayed in tile view

**When** I press the the expand button corresponding to the first image

**Then** the first image is displayed to fill as much of the screen as possible

**And** the other image is hidden from view

### AccessTileView

*(Tags: @FR005-3, @UR005-1)*

**Given** an image displayed full screen

**Then** an exit/collapse button shall be displayed alongside the image

### ReturnToTileView

*(Tags: @FR005-4, @UR005-1)*

**Given** an image displayed full screen

**When** I press the exit/collapse button the image is displayed in tile view

## GenerateAndViewFeedback

*(Tags: @FR, @FR022, @UR020, @UR021, @Admin, @WebOnly)*

### UserCanAccessFeedbackForm

*(Tags: @FR022-1, @UR021-1)*

**Given** I am logged on with analysis permissions

**When** I access the homepage

**Then** I can see the feedback link

**When** I access the analysis page

**Then** I can see the feedback link

**When** I follow the feedback link

**Then** I see the feedback page

**When** I access <base>/Feedback/New

**Then** I see the feedback page

### UserCanEnterFeedback

*(Tags: @FR022-2, @UR021-1)*

**Given** I am logged in with analysis permissions

**And** I have accessed the feedback form

**When** I enter text into the feedback form

**And** click Submit Feedback

**Then** i am redirected to the homepage

### AdminCanAccessUserFeedback

*(Tags: @FR022-3, @UR020-1)*

**Given** feedback has been entered for an identified user

**And** I am logged in with admin permissions

**And** I access <base>/User

**And** I click on the Details link next to the user

**Then** I can see a list of the user's feedback

**And** the list contains the date of the feedback

**And** the list contains the text of the feedback

### AllowedIPCanAccessFeedbackForm

*(Tags: @FR022-4, @UR021-2)*

**Given** I am not logged on

**And** an Allowed IP exists which includes my computer's IP address

**When** I access the homepage

**Then** I can see the feedback link

**When** I access the analysis page

**Then** I can see the feedback link

**When** I follow the feedback link

**Then** I see the feedback page

**When** I access <base>/Feedback/New

**Then** I see the feedback page

### AllowedIPCanEnterFeedback

*(Tags: @FR022-5, @UR021-2)*

**Given** I am not logged on

**And** an Allowed IP exists which includes my computer's IP address

**And** I have accessed the feedback form

**When** I enter text into the feedback form

**And** click Submit Feedback

**Then** i am redirected to the homepage

### AdminCanAccessAllowedIPFeedback

*(Tags: @FR022-6, @UR020-2)*

**Given** feedback has been entered for an Allowed IP

**And** I am logged in with admin permissions

**And** I access <base>/AllowedIPs

**And** I click on the Details link next to the Allowed IP

**Then** I can see a list of the feedback associated from that IP

**And** the list contains the date of the feedback

**And** the list contains the text of the feedback

## ImageID

*(Tags: @FR, @FR025, @Analysis, @WebOnly)*

### ShowImageIDFilename

*(Tags: @FR025-1, @UR023-1)*

**Given** I have submitted an image for analysis

**Then** the image ID is shown

**And** the image ID displays the image filename

### ShowImageIDEditBox

*(Tags: @FR025-2, @UR023-2)*

**Given** I have submitted an image for analysis

**And** the image ID displays the image filename

**When** I hover over the ID

**Then** a box is shown indicating that the field can be edited

## ImageMagnifer

*(Tags: @FR, @FR004, @UR004, @Analysis)*

With the mouse button held down, the section of the image directly under the mouse pointer will be zoomed to 3x magnification

### ShowMagnifer

*(Tags: @FR004-1, @UR004-1)*

**Given** a bitewing image displayed on screen

**When** I hover the mouse pointer over a location in the image

**And** I hold the mouse button down

**Then** the magnifier should be displayed

**And** the image location should be displayed at 3x magnification

### MoveMagnifer

*(Tags: @FR004-2, @UR004-1)*

**Given** a bitewing image displayed on screen

**And** the magnifier is currently displayed

**When** I move the mouse pointer to another location in the image

**Then** the image location should be updated

### HideAnnotationInMagnifer

*(Tags: @FR004-3, @UR004-2)*

**Given** a bitewing image displayed on screen

**And** the magnifier is currently displayed

**And** the magnifer is positioned over an annotation

**Then** no annotation should be displayed in the magnification

## ImageSubmit

*(Tags: @FR, @FR018, @UR016, @Analysis, @WebOnly)*

### CanSubmitImageByBrowsing

*(Tags: @FR018-1, @UR016-1)*

**Given** I have logged in with analysis permissions

**When** I enter URL <base>/Analysis

**And** click the dashed submit area

**And** browse for a bitewing image

**And** submit the image

**Then** the image is displayed correctly

**And** the results are displayed

### CanSubmitImageByDragAndDrop

*(Tags: @FR018-1, @UR016-2)*

**Given** I have logged in with analysis permissions

**When** I enter URL <base>/Analysis

**And** drag and drop a bitewing image from Explorer to the dashed submit area

**Then** the image is displayed correctly

**And** the results are displayed

### CanSubmitImagesByBrowsing

*(Tags: @FR018-3, @UR016-1)*

**Given** I have logged in with analysis permissions

**When** I enter URL <base>/Analysis

**And** click the dashed submit area

**And** browse for 2 bitewing images

**And** submit the images

**Then** the images are displayed correctly

**And** the results are displayed

### CanSubmitImagesByDragAndDrop

*(Tags: @FR018-4, @UR016-2)*

**Given** I have logged in with analysis permissions

**When** I enter URL <base>/Analysis

**And** drag and drop 2 bitewing images from Explorer to the dashed submit area

**Then** the images are displayed correctly

**And** the results are displayed

## LegalInformationPage

*(Tags: @FR, @FR015, @UR015, @Labelling)*

### CanAccessLegalPage

*(Tags: @FR015-1, @UR015-1, @WebOnly)*

**When** I enter URL <base>/Legal

**Then** a page of legal information is displayed

**And** it contains the Regulatory clinical use information

### CanAccessClinicalUse

*(Tags: @FR015-2, @UR015-1, @DesktopOnly)*

**When** I open the About menu option

**Then** a tab of clinical use is displayed

**And** it contains the clinical use information

## ManageAllowedIPRanges

*(Tags: @FR, @FR014, @UR014, @Security, @WebOnly)*

### CanAccessAllowedIPRangeURL

*(Tags: @FR014-1, @UR014-1)*

**Given** I have logged in with admin permissions

**When** I enter URL <base>/AllowedIPs

**Then** a list of Allowed IP Ranges is displayed

**And** the name of each Allowed IP Range is listed

**And** the start address of each Allowed IP Range is listed

**And** the end address of each Allowed IP Range is listed

**And** the expiry date of each Allowed IP Range is listed

### CanAddAllowedIPRange

*(Tags: @FR014-2, @UR014-2)*

**Given** I have logged in with admin permissions

**And** have accessed the list of Allowed IP Ranges

**When** I click the Allow IP Range button

**And** enter a name

**And** enter a start address

**And** enter an end address

**And** enter an expiry date

**And** click Add

**Then** the page is redirected to the list of Allowed IP Ranges

**And** the list of Allowed IP Ranges now includes the new entry

**And** the details match those entered in previous steps

### CantAddInvalidAllowedIPRange

*(Tags: @FR014-3, @UR014-2)*

**Given** I have logged in with admin permissions

**And** have accessed the list of Allowed IP Ranges

**When** I click the Allow IP Range button

**And** enter a name

**And** enter a start address

**And** enter an end address

**And** enter the name again in the expiry date field

**And** click Add

**Then** a validation error message appears adjacent to the expiry date field

**And** the Allowed IP Range cannot be saved

### CanEditAllowedIPRange

*(Tags: @FR014-4, @UR014-3)*

**Given** I have logged in with admin permissions

**And** I have created at least one Allowed IP Range

**When** I click the Edit link

**And** edit the name

**And** click the Save button

**Then** the name is updated in the list of Allowed IP Ranges

### CantEditInvalidAllowedIPRange

*(Tags: @FR014-5, @UR014-3)*

**Given** I have logged in with admin permissions

**And** I have created at least one Allowed IP Range

**When** I click the Edit link

**And** repeat the name in the Expiry Date field

**And** click the Save button

**Then** a validation error message appears adjacent to the expiry date field

**And** the Allowed IP Range cannot be saved

### CanDeleteAllowedIPRange

*(Tags: @FR014-6, @UR014-4)*

**Given** I have logged in with admin permissions

**And** I have created at least one Allowed IP Range

**When** I click the Delete link

**Then** the list of Allowed IP Ranges no longer includes the deleted record

## ManageUserLogins

*(Tags: @FR, @FR019, @UR018, @Security, @WebOnly)*

### CanAccessManageUsersURL

*(Tags: @FR019-1, @UR018-1)*

**Given** I have logged in with admin permissions

**When** I enter URL <base>/User

**Then** a list of Users is displayed

**And** the name of each User is displayed

**And** the email address of each User is displayed

**And** the number of performed detections is displayed

### CanAddUser

*(Tags: @FR019-2, @UR018-2)*

**Given** I have logged in with admin permissions

**And** have accessed the list of Users

**When** I click the New User button

**And** enter an email

**And** enter a full name

**And** enter comments

**And** enter a password

**And** confirm a password

**And** click Register

**Then** the page is redirected to the list of Users

**And** the list of Users now includes the new entry

**And** the details match those entered in previous steps

### CantAddInvalidUser

*(Tags: @FR019-3, @UR018-2)*

**Given** I have logged in with admin permissions

**And** have accessed the list of Users

**When** I click the New User button

**And** click Register

**Then** the validation error for email address is displayed

**And** the validation error for password is displayed

**When** I enter "name" in the email field

**And** click Register

**Then** the validation error a valid email address is displayed

**And** the validation error for password is displayed

**When** I enter "name@email.com" in the email field

**And** click Register

**Then** the validation error for password is displayed

**When** I enter "12345" in the password field

**And** click Register

**Then** the validation error for password complexity is displayed

**When** I enter "123456" in the password field

**And** click Register

**Then** the validation error for password confirmation is displayed

**When** I enter "notamatch" in the password field

**And** click Register

**Then** the validation error for password confirmation is displayed

### CanDeleteAllowedIPRange

*(Tags: @FR019-4, @UR018-3)*

**Given** I have logged in with admin permissions

**And** I have created at least one User

**When** I click the Delete link

**Then** the list of Users no longer includes the deleted record

## ProgressDisplay

*(Tags: @FR, @FR028, @UR026, @Analysis, @DesktopOnly)*

### ShowAnalysisFeedback

*(Tags: @FR028-1, @UR026-1)*

**When** I submit an image for analysis

**Then** the app displays status updates

**And** the updates are clearly visible

## RepositionROI

*(Tags: @FR, @FR009, @UR009, @Analysis)*

### MoveAndDragROI

*(Tags: @FR009-1, @UR009-1)*

**Given** an analyzed bitewing image which contains caries ROIs

**When** I click and drag an ROI

**Then** the ROI will move with the mouse

**And** the ROI selection status will remain unchanged

### MoveROI

*(Tags: @FR009-2, @UR009-1)*

**Given** an analyzed bitewing image which contains caries ROIs

**When** I click and drag an ROI

**And** move the mouse

**And** release the mouse

**Then** the ROI will stay at its new location

**And** the ROI selection status will remain unchanged

### FlipROI

*(Tags: @FR009-3, @UR009-2)*

**Given** an analyzed bitewing image which contains caries ROIs

**When** I select an ROI

**And** click the flip button corresponding to that image

**Then** the selected caries ROI will be flipped

**And** the ROI will remain selected

### FlipROIs

*(Tags: @FR009-4, @UR009-2)*

**Given** an analyzed bitewing image which contains caries ROIs

**When** I select 2 or more ROIs

**And** click the flip button corresponding to that image

**Then** the selected caries ROIs will be flipped

**And** the ROIs will remain selected

## ROIIndicator

*(Tags: @FR, @FR003, @UR003, @Analysis)*

The location of caries regions of interest shall be displayed in position on the image

### ROIIndicators

*(Tags: @FR003-1, @UR003-1)*

**Given** a bitewing image known to contain caries

**When** caries detection is complete

**Then** caries ROIs are indicated over the image

### ROIArrows

*(Tags: @FR003-2, @UR003-1)*

**Given** a bitewing image known to contain caries

**When** caries detection is complete

**Then** caries ROIs are indicated by arrows

**And** the arrows do not obscure the tooth edge

### ROIEasilySeen

*(Tags: @FR003-3, @UR003-1)*

**Given** a bitewing image known to contain caries

**When** caries detection is complete

**Then** caries ROI indicators are a consistent size

**And** caries ROI indicators are brightly coloured

### ROIConsistentSize

*(Tags: @FR003-4, @UR003-1, @WebOnly)*

**Given** 2 bitewing images of different resolution

**When** caries detection is complete

**Then** caries ROI indicators in both images are a consistent size

## SeeWhatsNew

*(Tags: @FR, @FR029, @UR027, @Analysis, @DesktopOnly)*

### SeeWhatsNewOnStartup

*(Tags: @FR029-1, @UR027-1)*

**Given** I have not dismissed the news for the version installed

**When** I start AssistDent

**Then** the what's new form is displayed

### SeeWhatsNewAllVersions

*(Tags: @FR029-2, @UR027-1)*

**Given** an upgrade of AssistDent from the previous version

**And** the new features were previously dismissed

**When** I start AssistDent

**Then** the what's new form is displayed

**And** the what's new form contains the new features

**And** the new features apply only to the current version

### SeeWhatsNewAllVersions

*(Tags: @FR029-3, @UR027-1)*

**Given** a clean install of AssistDent with no settings files

**When** I start AssistDent

**Then** the what's new form is displayed

**And** the what's new form contains the new features

**And** the new features apply to the current version and every previous version

### DimissAndDontShowAgain

*(Tags: @FR029-4, @UR027-2)*

**Given** I have not dismissed the news for the version installed

**And** I start AssistDent

**And** the what's new form is displayed

**When** I check the "Don't show me this again" checkbox

**And** restart AssistDent

**Then** AssistDent starts

**And** the what's new form is not displayed

### SeeWhatsNewAfterStartup

*(Tags: @FR029-5, @UR027-3)*

**Given** I have started AssistDent

**When** I access the "See What' New" menu option

**Then** the what's new form is displayed

## TiffImageFormat

*(Tags: @FR, @FR016, @UR016, @Analysis, @WebOnly)*

### CanAnalyseTiffImages

*(Tags: @FR016-1, @UR016-1, @UR016-3)*

**Given** I have logged in with analysis permissions

**When** I enter URL <base>/Analysis

**And** click the Select File area

**And** browse for a a bitewing image in Tiff format

**And** submit the image

**Then** the image is displayed correctly

**And** the results are displayed

## ToggleAnnotation

*(Tags: @FR, @FR007, @UR007, @Analysis)*

### AccessAnnotationToggle

*(Tags: @FR007-1, @UR007-1, @WebOnly)*

**Given** 2 submitted bitewing images

**Then** the images shall be displayed in tile view

**And** a hide annotation button shall be displayed alongside each image

### HideImageAnnotation

*(Tags: @FR007-2, @UR007-1)*

**Given** an analyzed bitewing image which contains caries ROIs

**When** I click the corresponding hide annotation button

**Then** the tooth indicators are hidden

**And** the caries ROI indicators are hidden

**And** the hide annotation button is replaced with a show annotation button

### RestoreImageAnnotation

*(Tags: @FR007-3, @UR007-2)*

**Given** an analyzed bitewing image which contains caries ROIs

**And** the annotation is currently hidden

**When** I click the corresponding show annotation button

**Then** the tooth indicators are displayed

**And** the caries ROI indicators are displayed

**And** the show annotation button is replaced with a hide annotation button

## ToothIndicator

*(Tags: @FR, @FR002, @UR002, @Analysis)*

Detected teeth shall be displayed in position over the image

### ToothIndicators

*(Tags: @FR002-1, @UR002-1)*

**Given** a bitewing image known to contain teeth

**When** caries detection is complete

**Then** the detected teeth are displayed on the image

## UpdateClient

*(Tags: @FR, @FR032, @Admin, @DesktopOnly)*

### UpdateNotAvailable

*(Tags: @FR025-1, @UR024-1)*

**Given** an update is not available

**When** I start the app

**Then** the app starts

### UpdateAvailable

*(Tags: @FR025-2, @UR024-2, @UR024-3)*

**Given** an update is available

**When** I start the app

**Then** the app starts

**And** a message is displayed

**And** the message indicates the availability of an update

**And** the message includes a link

## UserRegistration

*(Tags: @FR, @FR030, @UR028, @Admin, @DesktopOnly)*

### ShowRegistrationForm

*(Tags: @FR029-1, @UR025-1)*

**Given** no licence exists for the current machine

**When** I start Assistdent

**Then** the user registration form is displayed

### CanRegisterInCECountry

*(Tags: @FR029-2, @UR028-1)*

**Given** no licence exists for the current machine

**And** I start Assistdent

**And** the use registration form is displayed

**When** I enter valid details

**And** I select "Germany" for the country

**Then** the registration is successful

**And** AssistDent starts

### CanRegisterInUK

*(Tags: @FR029-3, @UR028-2)*

**Given** no licence exists for the current machine

**And** I start Assistdent

**And** the use registration form is displayed

**When** I enter valid details

**And** I select "United Kingdom" for the country

**Then** the registration is successful

**And** AssistDent starts

### CannotRegisterInNonCECountry

*(Tags: @FR029-4, @UR028-3)*

**Given** no licence exists for the current machine

**And** I start Assistdent

**And** the use registration form is displayed

**When** I enter valid details

**And** I select "United States" for the country

**Then** the registration is unsuccesful

**And** AssistDent does not start