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| USE CASE | DownloadImage |
| ID | UC1 |
| BRIEF DESCRIPTION | A member of hospital staff wants to download post-surgery images to determine success of surgery. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects an image to download locally.  3) The image is saved locally on the device. |
| POST CONDITIONS | Image stored on device. |
| ALTERNATIVE FLOWS | DownloadImage:Error |

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| USE CASE | DownloadImage:Error |
| ID | UC1.1 |
| BRIEF DESCRIPTION | A member of hospital staff unsuccessfully attempts to download an image. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects an image to download locally.  3) The system displays a notification to check the internet connection. |
| POST CONDITIONS | None |
| ALTERNATIVE FLOWS | None |

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| USE CASE | CloudImage |
| ID | UC2 |
| BRIEF DESCRIPTION | A member of hospital staff wants to view a post-surgery image of a patient. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects an image to view.  3) Selected image is shown to the user. |
| POST CONDITIONS | Image is displayed on screen. |
| ALTERNATIVE FLOWS | CloudImage:Error |

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| USE CASE | CloudImage:Error |
| ID | UC2.1 |
| BRIEF DESCRIPTION | A member of hospital staff unsuccessfully attempts to view a patient’s image. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects an image to view.  3) The system displays a notification to check the internet connection. |
| POST CONDITIONS | None |
| ALTERNATIVE FLOWS | None |

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| USE CASE | DownloadDrawing |
| ID | UC3 |
| BRIEF DESCRIPTION | A member of hospital staff wants to download a patient’s lip drawing and corresponding symmetry score to store locally. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects a drawing to download locally.  3) The drawing is saved locally on the device. |
| POST CONDITIONS | Drawing stored on device. |
| ALTERNATIVE FLOWS | DownloadDrawing:Error |

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| USE CASE | DownloadDrawing:Error |
| ID | UC3.1 |
| BRIEF DESCRIPTION | A member of hospital staff unsuccessfully attempts to download a drawing. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects a drawing to download locally.  3) The system displays a notification to check the internet connection. |
| POST CONDITIONS | None |
| ALTERNATIVE FLOWS | None |

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| USE CASE | CloudDrawing |
| ID | UC4 |
| BRIEF DESCRIPTION | A member of hospital staff wants to view a drawing of a patient’s lip region. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects a drawing to view.  3) Selected drawing is shown to the user. |
| POST CONDITIONS | Drawing is displayed on screen. |
| ALTERNATIVE FLOWS | CloudDrawing:Error |

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| USE CASE | CloudDrawing:Error |
| ID | UC4.1 |
| BRIEF DESCRIPTION | A member of hospital staff unsuccessfully attempts to view a patient’s lip drawing. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients on the cloud.  2) The user selects a drawing to view.  3) The system displays a notification to check the internet connection. |
| POST CONDITIONS | None |
| ALTERNATIVE FLOWS | None |

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| USE CASE | LocalImage |
| ID | UC5 |
| BRIEF DESCRIPTION | A member of hospital staff wants to view a post-surgery image of a patient. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must have already downloaded the image. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects an image to view.  3) Selected image is shown to the user. |
| POST CONDITIONS | Image is displayed on screen. |
| ALTERNATIVE FLOWS | None |

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| USE CASE | DeleteImage |
| ID | UC6 |
| BRIEF DESCRIPTION | A member of hospital staff wants to delete a patient stored locally. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must have already downloaded the image. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects an image to delete.  3) Selected image is deleted. |
| POST CONDITIONS | Updated list of locally stored patients are displayed. |
| ALTERNATIVE FLOWS | None |

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| USE CASE | SyncImage |
| ID | UC7 |
| BRIEF DESCRIPTION | A member of hospital staff wants to upload an image’s drawings and symmetry scores to the cloud. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects an image to sync.  3) The system displays a notification that sync has completed. |
| POST CONDITIONS | Drawings and symmetry scores are uploaded to the cloud. |
| ALTERNATIVE FLOWS | SyncImage:Error |

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| --- | --- |
| USE CASE | SyncImage:Error |
| ID | UC7.1 |
| BRIEF DESCRIPTION | A member of hospital staff unsuccessfully uploads an image’s drawings and symmetry scores to the cloud. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects an image to sync.  3) The system displays a notification to check the internet connection. |
| POST CONDITIONS | None |
| ALTERNATIVE FLOWS | None |

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| USE CASE | CreateDrawing |
| ID | UC8 |
| BRIEF DESCRIPTION | A member of hospital staff wants to determine the success of a surgery from an image. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must have saved an image locally. |
| MAIN FLOW | 1) The user selects a locally stored image.  2) The user selects the option to create a drawing of lip regions.  3) The user draws around the lip regions.  4) The user selects the option to generate symmetry scores.  5) The system displays the symmetry score. |
| POST CONDITIONS | Symmetry score is generated and displayed. |
| ALTERNATIVE FLOWS | CreateDrawing:Redo |

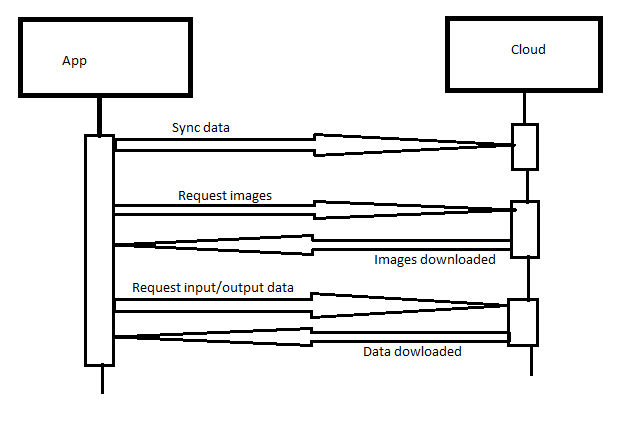
|  |  |
| --- | --- |
| USE CASE | CreateDrawing:Redo |
| ID | UC8.1 |
| BRIEF DESCRIPTION | A member of hospital staff drew around the lip regions incorrectly. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user wants to redraw around the lip regions. |
| MAIN FLOW | 1) The user draws around the lip regions incorrectly.  2) The user selects the option to redraw around the lip regions.  3) The use case is repeated until the user is satisfied with the drawing and selects the option to generate symmetry scores.  4) The system displays the symmetry score. |
| POST CONDITIONS | Symmetry score is generated and displayed. |
| ALTERNATIVE FLOWS | CreateDrawing:Redo |

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| --- | --- |
| USE CASE | LocalDrawing |
| ID | UC9 |
| BRIEF DESCRIPTION | A member of hospital staff wants to view a drawing of a patient’s lip region. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The image must have drawings associated with it. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects the option to view drawings of an image.  3) The user selects a drawing to view.  4) Selected drawing is shown to the user. |
| POST CONDITIONS | Drawing is displayed on screen. |
| ALTERNATIVE FLOWS | None |

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| --- | --- |
| USE CASE | DeleteDrawing |
| ID | UC10 |
| BRIEF DESCRIPTION | A member of hospital staff wants to delete a drawing stored locally. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must have drawings stored locally. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects the option to view drawings of an image.  3) The user selects a drawing to delete.  4) Selected drawing is deleted. |
| POST CONDITIONS | Updated list of locally stored drawings are displayed. |
| ALTERNATIVE FLOWS | None |

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| USE CASE | SyncDrawing |
| ID | UC11 |
| BRIEF DESCRIPTION | A member of hospital staff wants to upload a single drawing of an image’s lip regions and symmetry scores to the cloud. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects the option to view drawings of an image.  3) The user selects a drawing to sync.  4) The system displays a notification that sync has completed. |
| POST CONDITIONS | Drawings and symmetry score is uploaded to the cloud. |
| ALTERNATIVE FLOWS | SyncDrawing:Error |

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| --- | --- |
| USE CASE | SyncDrawing:Error |
| ID | UC11.1 |
| BRIEF DESCRIPTION | A member of hospital staff unsuccessfully uploads an image’s drawing and symmetry score to the cloud. |
| PRIMARY ACTORS | Clinician |
| SECONDARY ACTORS | Researcher |
| PRECONDITIONS | The user must be connected to the internet. |
| MAIN FLOW | 1) The user selects the option to view patients stored locally.  2) The user selects the option to view drawings of an image.  3) The user selects a drawing to sync.  4) The system displays a notification to check the internet connection. |
| POST CONDITIONS | None |
| ALTERNATIVE FLOWS | None |

Sequence diagram: 

Three sentence summary:

The project is about determining the success of cleft lip and palate surgeries. Through the use of a mobile app, paediatric plastic surgeons should be able to evaluate the aesthetic outcome of the surgery by determining how symmetrical the lips are. The user should be able to draw around the lip region of the target image and then receive a set of symmetry scores, determining the successfulness of the surgery.