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| Use Case # | AddNewProblem |
| Related User Story | US 01.01.01, US 01.01.02, US 01.01.03, US 08.01.01 |
| Participating Actors | User |
| Goal | User adds a new problem |
| Trigger | User chooses the new problem option |
| Precondition | 1. User has a title for the problem 2. User has a description for the problem 3. User has a Start date of the problem  4. User is a patient |
| Postcondition | On success:  1. A new problem has been created  2. A message indicating success is displayed. |
| Basic Flow | 1. System prompts the user to enter a title, date started, and a brief description on a single screen 2. User enters title 3. User taps the start date 4. User selected a start date from the calendar shown 5. User enters a brief description 6. User chooses to save the problem 7. System saves the problem 8. System displays success message |
| Exceptions | 6. The information the User has entered has violated a constraint 6.1 System displays error message to the User, telling User the constraint that was violated 6.2 System prompts the User to fix the violated constraint |
| Qualities | System is fast, responsive and reactive. If system is offline, the problem is saved locally and then synced when the system is online. |
| Constraints | 2.1 Problem title is required  2.2 Problem title is unique  2.3 Problem title must be no more than 30 characters  4.1 Problem’s start date is required  5.1 Problem description is required  5.2 Problem description is unique  5.3 Problem description must be no more than 300 characters |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | ViewProblems |
| Related User Story | US 01.02.01 |
| Participating Actors | User |
| Goal | User views the problems they have recorded |
| Trigger | User chooses the view problems option |
| Precondition | 1. User is a patient |
| Postcondition | On success:  1. A list of the user’s problems is displayed |
| Basic Flow | 1. System displays user’s problems |
| Exceptions | 1 User has no problems  1.1 System displays a message for the user saying that the user has recorded no problems. |
| Qualities | System is fast, responsive and reactive. If system is offline, the locally saved problems are shown. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | EditProblem |
| Related User Story | US 01.01.02, US 01.01.03, US 01.03.01, US 08.01.01 |
| Participating Actors | User |
| Goal | User edits a problem |
| Trigger | User chooses the Edit problem option |
| Precondition | 1. User knows the problem to be edited  2. Problem to be edited has already been recorded  3. User is a patient |
| Postcondition | On success:  1. The problem has been edited and stored  2. A message indicating success is displayed. |
| Basic Flow | 1. System displays the problem to be edited with a title, date started, and a brief description on a single screen 2. User optionally edits title 3. User optionally taps the start date 4. User optionally edits the start date from the calendar shown 5. User optionally edits brief description 6. User chooses to save the changes to the problem  7. System saves the problem 8. System displays success message |
| Exceptions | 6. The information the User has entered has violated a constraint 6.1 System displays error message to the User, telling User the constraint that was violated 6.2 System prompts the User to fix the violated constraint |
| Qualities | System is fast, responsive and reactive. If system is offline, the problems is saved locally and then synced when the system is online. |
| Constraints | 2.1 Problem title is required  2.2 Problem title is unique  2.3 Problem title must be no more than 30 characters  4.1 Problem’s start date is required  5.1 Problem description is required  5.2 Problem description is unique  5.3 Problem description must be no more than 300 characters |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | DeleteProblem |
| Related User Story | US 01.04.01, US 08.01.01 |
| Participating Actors | User |
| Goal | The problem that the user wanted to delete has been deleted |
| Trigger | User chooses to delete problem option |
| Precondition | 1. User knows the problem to be deleted  2. Problem to be deleted has already been recorded  3. User is a patient |
| Postcondition | On success:  1. A problem has been deleted  2. Any records associated with the problems have been deleted  2. A message indicating success is displayed. |
| Basic Flow | 1. System warns user that the problem and all associated records will be deleted.  2. System prompts the user to continue or cancel  3. System deletes all associated records  4. System deleted problem  5. System displays success message |
| Exceptions | 2 User cancels deletion of problem  2.1 System returns to previous screen |
| Qualities | System is fast, responsive and reactive. If system is offline, the problem is saved locally and then synced when the system is online. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | AddNewRecord |
| Related User Story | US 01.05.01, US 02.02.01, US 02.03.01, US 02.04.01, US 02.05.01, US 02.06.01, US 02.08.01, US 02.09.01, US 08.01.01, US 09.01.01, US 09.01.02, US 09.03.01, US 10.01.01, US 11.02.01 |
| Participating Actors | User, Sys Admin |
| Goal | A new record associated with the desired problem has been added. |
| Trigger | User chooses add record option. |
| Precondition | 1. User knows the problem for which they want to add a new record  2. User has previously recorded the problem for which they want to add the new record  3. User is a patient |
| Postcondition | On success:  1. A new record has been added with an associated problem  2. A message indicating success is displayed. |
| Basic Flow | 1. System prompts the user to select a problem to associated with the record  2. User selects the problem  3. System adds a time stamp to the record  4. System reminds user to take photos in similar conditions as the other photos.  5. System prompts the user to add a geo-location, body location, title, comment and photo to the record.  6. User optionally enters a title  7. User optionally enters a comment  8. User optionally specifies a body location using a point location on the front/back body location photos  9. User optionally geo-codes the record using a map  10. User optionally attaches one or more photos of the problem  11. User saves the record  12. System created the record  13. System displays a success message |
| Exceptions | 9. Location data for the app has not been enabled  9.1 System displays error message stating that it failed to add location data to the record.  10. System cannot access the photo directory on the device  10.1 System displays error message stating that it failed to attach the photo(s) to the record.  10. User attaches more than 10 photos  10.1 System displays error message stating that too many images has been added  10.2 System prompts the user to fix the issue  10. User attaches a photo larger than 65546 bytes  10.1 System displays error message stating that the size of a given photo is too large  10.2 System prompts the user to fix the issue |
| Qualities | System is fast, responsive and reactive. If system is offline, the record is saved locally and then synced when the system is online. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | ViewRecordsAssociatedWithProblem |
| Related User Story | US 02.01.01, US 08.01.01, US 09.02.01 |
| Participating Actors | User |
| Goal | User views the records associated with a problem |
| Trigger | User chooses to view records for a problem |
| Precondition | 1. User knows the problem for which they want to view records  2. A User has recorded the problem and records in the past  3. If user is care-provider, ensure they are assigned the patient and user is online.  4. If a user is patient, no other requirements need to be fulfilled |
| Postcondition | On success:  1. All the records for a given problem are displayed, including its title, description and photo |
| Basic Flow | 1. System displays records for a given problem including its title, description and photo |
| Exceptions | 1. User has no problems  1.1 System displays a message indicating that a user has no problem recorded  1 User is care-provider and is not assigned to the patient |
| Qualities | System is fast, responsive and reactive. If system is offline, the locally saved records are shown if the user is a patient. If the user is a care-provider and offline, error message is shown. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | MakeSlideshowOfPhotoRecordsOfProblem |
| Related User Story | US 02.10.01, US 08.01.01 |
| Participating Actors | User |
| Goal | User views a slideshow of the photo records of a problem. |
| Trigger | User chooses to view a slideshow of the photo records of a problem. |
| Precondition | 1. User knows the problem for with they want to view photo records of  2. User has recorded the problem and records in the past  3. User is patient |
| Postcondition | On success:  1. All the photo records of a given problem are shows as a slideshow |
| Basic Flow | 1. System displays photo records for a given problem in chronological order |
| Exceptions | 1. User has no problems  1.1 System displays a message indicating that a user has no problem recorded  1 User has no photo records for a problem  1.1 System displays a message indicating that a user has no photo records for the problem |
| Qualities | System is fast, responsive and reactive. If system is offline, the locally saved records are shown. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | AddNewUserAccount |
| Related User Story | US 03.01.01, US 03.01.02, US 03.01.03 |
| Participating Actors | User |
| Goal | User creates new account |
| Trigger | User chooses the AddNewUserAccount(sign-up) option |
| Precondition | 1. User must be online  2. User must know the unique userid they want to use  3. User must know their contact information  4. User must know if they are patient or care-provider |
| Postcondition | On success:  1. New user account for the user has been created |
| Basic Flow | 1. System prompts the user to enter a unique userid email address and phone number  2. User enters a unique userid  3. User selects if they are care-provider or patient  4. User enters an email address  5. User enters a phone number  6. User selects option to create account  7. System creates account  8. System displays success message |
| Exceptions | 2. User’s userid is not unique  2.1 System displays an error message indicating the userid is not unique  2.2 System prompts the user to fix the error  2 User’s userid is too short  2.1 System displays an error message indicating the userid is must be 8 characters or longer  2.2 System prompts the user to fix the error  3 User has not selected if they are care provider or patient  3.1 System displays an error message indicating they must select if they are a care-provider or patient  3.2 System prompts the user to fix the error |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes | Since no user stories for the creation of accounts for care-providers have been given, the requirements for patient’s user profiles have been extended to care-providers. |
| Open Issues |  |

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| Use Case # | EditContactInformation |
| Related User Story | US 03.02.01 |
| Participating Actors | User |
| Goal | User edits the contact information for their profile |
| Trigger | User chooses the edit contact information action |
| Precondition | 1. User must be online  2. User must know their new contact information |
| Postcondition | On success:  1. User’s contact information has been changed |
| Basic Flow | 1. System prompts the user to edit their email address or edit their phone number.  2. User optionally edits their email address  3. User optionally edits their phone number  4. User indicates to save the new contact information  5. System updates the contact information |
| Exceptions |  |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes | Since no user stories for the creation of accounts for care-providers have been given, the requirements for patient’s user profiles have been extended to care-providers. |
| Open Issues |  |

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| Use Case # | ShowContactInformationForUser |
| Related User Story | US 03.03.01 |
| Participating Actors | User |
| Goal | User views the contact information associated with a username |
| Trigger | User chooses the view contact information associated with a username action |
| Precondition | 1. User must be online  2. User must know which user’s contact information they want to view |
| Postcondition | On success:  1. The desired user’s contact information is displayed. |
| Basic Flow | 1. System displays the username, email address and the phone number for the desired user |
| Exceptions | 1. The user whose contact information was requested does not exist  1.1 System displays an error message indicating the user no longer exists  1.2 System goes back go previous screen |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes | Since no user stories for the creation of accounts for care-providers have been given, the requirements for patient’s user profiles have been extended to care-providers. |
| Open Issues |  |

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| Use Case # | FetchProblemsAndRecordsWithAllKeywords |
| Related User Story | US 04.01.01 |
| Participating Actors | User |
| Goal | Show all problems and records that contain all the keywords in a given list of problems |
| Trigger | User searches for keywords in problems and records |
| Precondition | 1. User must be online  2. User must know the key words they want to search |
| Postcondition | On success:  1. System displays the problems and records that contain all the keywords from a given list of problems |
| Basic Flow | 1. System searches the problems and records that contain all the keywords from a given list of problems  2. System displays all the problem and records that contain all the keywords |
| Exceptions | 1. No records exist that match all the keywords  1.1 System displays an error message indicating no records exist that match all the keywords |
| Qualities | System is fast, responsive and reactive. |
| Constraints | User can only search problems and records from a given list. This list will be problems that a user has created(in case the user is a patient) or a list of problems for a particular patient(in case the user is a care-provider). |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | FetchProblemsAndRecordsWithKeyWordsAndGeoLocatioin |
| Related User Story | US 04.02.01 |
| Participating Actors | User |
| Goal | Show all problems and records that contain the keywords and are near a geo-location in a given list of problems |
| Trigger | User searches for keywords in problems and records near a geo-location |
| Precondition | 1. User must be online  2. User must know the key words they want to search  3. User must know the geo-location near which they want to find records or user must know the body location near which they want to search. |
| Postcondition | On success:  1. System displays the problems and records that contain the keywords and are near the specified geo-location or body-location from a given list of problems |
| Basic Flow | 1. System searches the problems and records that contain the keywords and are near the specified geo-location or body-location from a given list of problems  2. System displays all the problem and records that contain the keywords and are near the specified geo-location or body-location |
| Exceptions | 1. No records exist that match all the keywords  1.1 System displays an error message indicating no records exist that match the keywords and the geo-location or body-location |
| Qualities | System is fast, responsive and reactive. |
| Constraints | User can only search problems and records from a given list. This list will be problems that a user has created(in case the user is a patient) or a list of problems for a particular patient(in case the user is a care-provider). |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | ViewAssignedPatients |
| Related User Story | US 06.01.01 |
| Participating Actors | User |
| Goal | View the list of patients a care-provider is assigned to |
| Trigger | User takes show all patients I am assigned to action |
| Precondition | 1. User must be online  2. User must be care-provider |
| Postcondition | On success:  1. System displays the list of patients the care-provider is assigned to |
| Basic Flow | 1. System displays the list of patients the care-provider is assigned to |
| Exceptions | 1. Care-provider is not assigned to any patients  1.1 System displays an error message indicating care-provider is not assigned to any patients |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | AddNewPatient |
| Related User Story | US 07.01.01 |
| Participating Actors | User |
| Goal | Add a patient that the user(care-provider) has been assigned to. |
| Trigger | User enters a patients userid/username and takes the add action |
| Precondition | 1. User must be online  2. User must be care-provider  3. User must know the userid/username for the patient to be added  4. User with userid/username exists |
| Postcondition | On success:  1. System displays a message indicating that a new patient has been added to the assigned patients list for the care provider |
| Basic Flow | 1. System searches for the patient with the given userid/username  2. System adds the patient to the list of user’s the care-provider is assigned to |
| Exceptions | 1. Patient/User with the given userid/username does not exist  1.1 System displays a message indicating patient/User with the given userid/username does not exist |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | ViewProblemsForPatient |
| Related User Story | US 07.01.01 |
| Participating Actors | User |
| Goal | View all the problems for a given patient |
| Trigger | User takes the action to view all the problems for a given patient |
| Precondition | 1. User must be online  2. User must be care-provider  3. User must have the patient already added to their list |
| Postcondition | On success:  1. System displays all the problems for a given patient |
| Basic Flow | 1. System searches for all the problems for a given patient  2. System displays all the problems for a given patient |
| Exceptions | 1. No problems for a given patient exist  1.1 System displays a message indicating no problems for a given patient exist |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | AddCommentToRecord |
| Related User Story | US 02.07.01, US 07.01.01 |
| Participating Actors | User |
| Goal | Add comment to a given record |
| Trigger | User takes action that adds a comment to a given record after entering a comment |
| Precondition | 1. User must be online  2. User must be care-provider  3. User must have the patient already added to their list  4. User must know the record and problem for which they want to add a comment  5. The record for which the user wants to add the comment already exists |
| Postcondition | On success:  1. System displays that a comment has been added to the record |
| Basic Flow | 1. System adds the given comment to the desired record  2. System displays a success message |
| Exceptions |  |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | ViewGeoLocationForRecord |
| Related User Story | US 10.02.01 |
| Participating Actors | User |
| Goal | User views the geo-location of a record on a map |
| Trigger | User chooses the view geo-location of a record on a map action |
| Precondition | 1. User knows the record for which they want to view the geo-location  2. If user is care-provider, ensure they are assigned the patient and user is online.  3. If a user is patient, no other requirements need to be fulfilled |
| Postcondition | On success:  1. The geo-location of a record is displayed on a map |
| Basic Flow | 1. System displays the geo-location of a record on a map |
| Exceptions | 1. No geo-location for the record exists  1.1 System displays a message indicating no geo-location for the record exists |
| Qualities | System is fast, responsive and reactive. If system is offline, the locally saved records are shown if the user is a patient. If the user is a care-provider and offline, error message is shown. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | ViewGeoLocationForAllRecords |
| Related User Story | US 10.03.01 |
| Participating Actors | User |
| Goal | User views the geo-locations of all records on a map |
| Trigger | User chooses view geo-locations of all records on a map action |
| Precondition | 1. If a user is patient, no other requirements need to be fulfilled  2. If user is care-provider, ensure they are assigned the patient and user is online. They must also choose the patient before using the trigger for this action. |
| Postcondition | On success:  1. The geo-location of all records for a patient is displayed on a map |
| Basic Flow | 1. System displays the geo-location of all records for a patient on a map |
| Exceptions | 1. No records with geo-locations exist  1.1 System displays a message indicating no records with geo-locations exist |
| Qualities | System is fast, responsive and reactive. If system is offline, the locally saved records are shown if the user is a patient. If the user is a care-provider and offline, error message is shown. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | UploadBodyLocationPhotos |
| Related User Story | US 09.03.01, US 11.01.01, US 11.03.01 |
| Participating Actors | User, Sys Admin |
| Goal | User uploads front and back body location photos |
| Trigger | User chooses upload front and back body location photos action |
| Precondition | 1. User is online  2. User is a patient  3. User has already taken photos of front and back of their body |
| Postcondition | On success:  1. User has uploaded photos of front and back of their body |
| Basic Flow | 1. System prompts the user to select front and back body location photos from the library  2. User selects the images  3. System prompts the user to specify which photo is of the front of the body, which image is of the back of the body.  4. User specifies which photo is of the front of the body, which image is of the back of the body.  5. User saves the photos  6. System uploads the photos, if body location photos already exist, overwrite them. |
| Exceptions | 1. System does not have access to the photo library  1.1 System displays a message indicating that the system does not have access to the photo library  1.2 System prompts the user to fix the issue  2. The size of the selected images is larger than 65536 bytes  2.1 System displays a message indicating that the size of the selected images is larger than 65536 bytes  2.2 System prompts the user to fix the issue  2. User has tried to select more than 2 images  2.1 System displays a message indicating that only two images should be selected  2.2 System prompts the user to fix the issue |
| Qualities | System is fast, responsive and reactive. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |

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| Use Case # | ViewBodyLocationOfRecord |
| Related User Story | US 11.04.01 |
| Participating Actors | User |
| Goal | View body location of record |
| Trigger | User chooses the view body location of record action |
| Precondition | 1. User is a patient  2. User has already uploaded front and back body location photos |
| Postcondition | On success:  1. System displays body location picture with a clear marker for the record |
| Basic Flow | 1. System displays body location photos with the body location of the record as a clear marker |
| Exceptions | 1. No body location for the record exists  1.1 System displays message indicating no body location for the record exists |
| Qualities | System is fast, responsive and reactive. If system is offline, the locally saved records are shown. |
| Constraints |  |
| Includes |  |
| Extends |  |
| Related Artifacts |  |
| Notes |  |
| Open Issues |  |