

Endeavour Health Charitable Trust

Leeds THT CF

Clinical Module and Mobile App

Requirements Summary

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Contents

Glossary/Terminology	4
Purpose	4
Background	4
Scope	5
Out of Scope	5
Technical Information	5
Data Acquisition	5
Requirements	6
Figure 1: Clinical Module Use Cases	6
Figure 2: Mobile App Use Cases	7
Data items required for 'Prescription Form'	8

Glossary/Terminology

Clinical Module	-	The module being designed by this project that is clinician facing
Mobile App	-	The mobile application being designed by this project that is patient facing
Clinical System User	-	Any clinician/pharmacist in the hospital who uses the Clinical Module

Purpose

This document summarises the requirements capture for the LTHT CF Clinical Module and patient focussed Mobile App.

Background

This project is funded and supported by Endeavour Health Charitable Trust, working in partnership with Leeds Teaching Hospital Trust, Leeds University and Edenbridge Healthcare Ltd. Dr Daniel Peckham is project lead and owner responsible for informing the design, functional requirements and project delivery. Endeavour is responsible for providing the funding and development resource to support successful delivery of the project.

The initial scope of the project is intended as a pilot, using pre-selected patients currently receiving treatment from within the Adult Cystic Fibrosis unit at Leeds. The patient recruitment process will be managed collaboratively between the Trust and University.

The project will provide a digital workflow for the Homecare medication management service currently being piloted at LTHT. Although this is a local pilot it is envisaged that the Homecare delivery service will be adopted at a national level based on pilot success. This project focusses on its use with CF patients, but Homecare delivery service covers delivery of medication to patients with multiple other chronic conditions. The service provides a home delivery service to patient currently prescribed high cost drugs. Due to the high cost of these medication items it is particularly vital that medication is issued appropriately to ensure that it is only provided when a patient is adhering to the prescribed regimen, and expensive items are not being issued when not required, and therefore wasted. One aim of this project is to give the patient more control over the repeat request process.

More information about the Homecare service can be found here: <http://www.clinicalhomecare.co.uk/>

Scope

Initial scope of this project is as follows:

- a) Creation of a 'Clinical Module' to manage the workflow between the EMIS Web Clinical System repeat prescription function and the printing of a 'Prescription form' which the specialist CF pharmacist can then forward as appropriate.
- b) Creation of a 'Mobile App' for the patient, which gives the patient more control over the monitoring of their condition and the requesting of repeat medication as required.

Out of Scope

- i) Communications between the 'Clinical Module' and the Hospital JAC Pharmacy system.
- ii) Return messaging from the 'Clinical Module' to EMIS Web Clinical System.

Technical Information

Data Acquisition

A prerequisite to the requirements outlined in this document is the population and ongoing maintenance of data into a central repository. Source data will be acquired by obtaining a direct data feed from EMIS, obtaining the Cystic Fibrosis data held within the EMIS Web clinical application.

Data will be brokered on a near to real time basis by the Endeavour Data Service in order to populate the central repository, this will then provide the relevant clinical data to patient and clinical applications.

Requirements

The requirements have been captured following round-table discussions with Dr Daniel Peckham, Nicola Shaw (CF Pharmacist) and Helen White (Leeds Beckett University).

The requirements take the form of 'User stories' which are based on the different use cases described in figures 1 and 2 below.

Figure 1: Clinical Module Use Cases

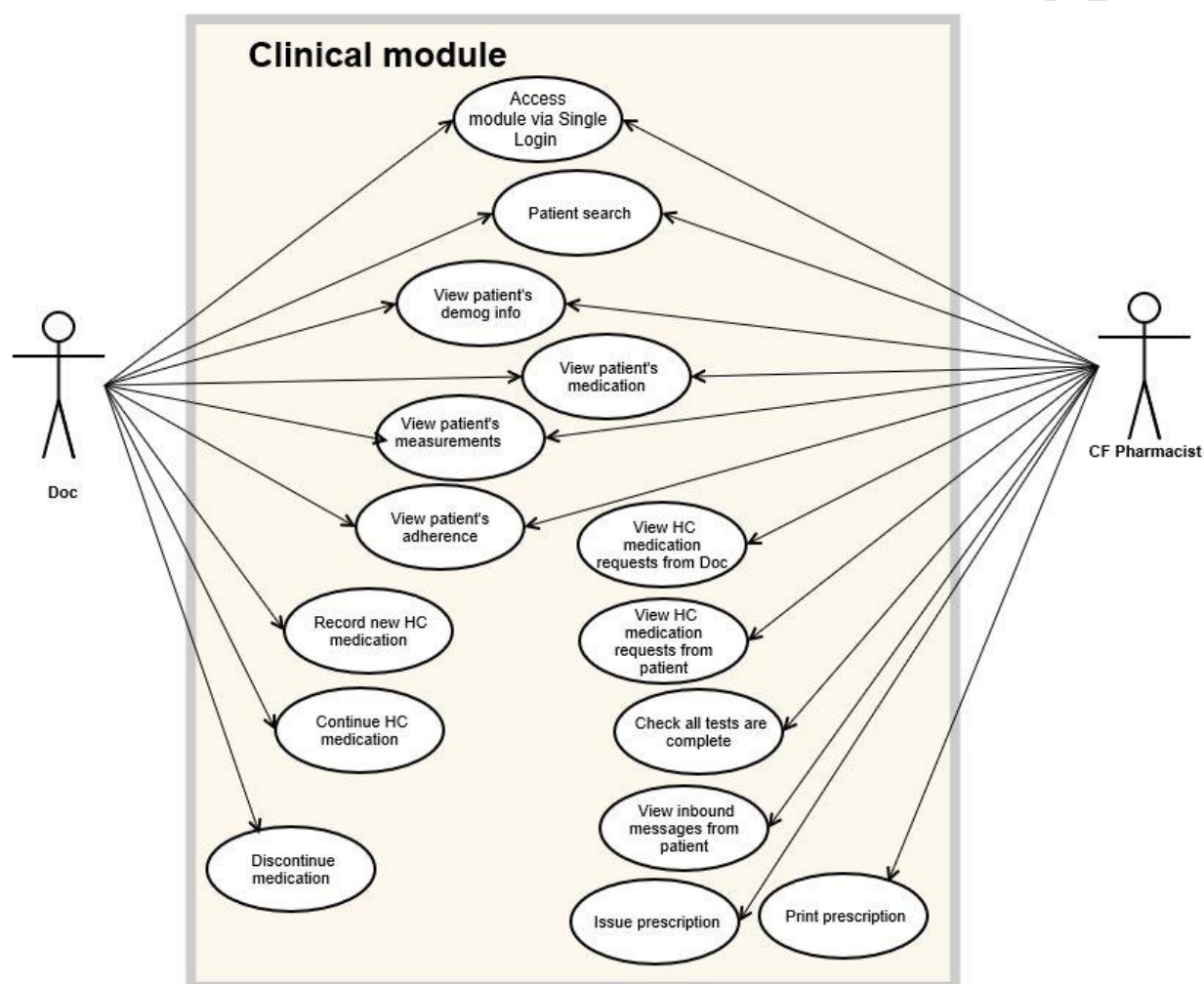
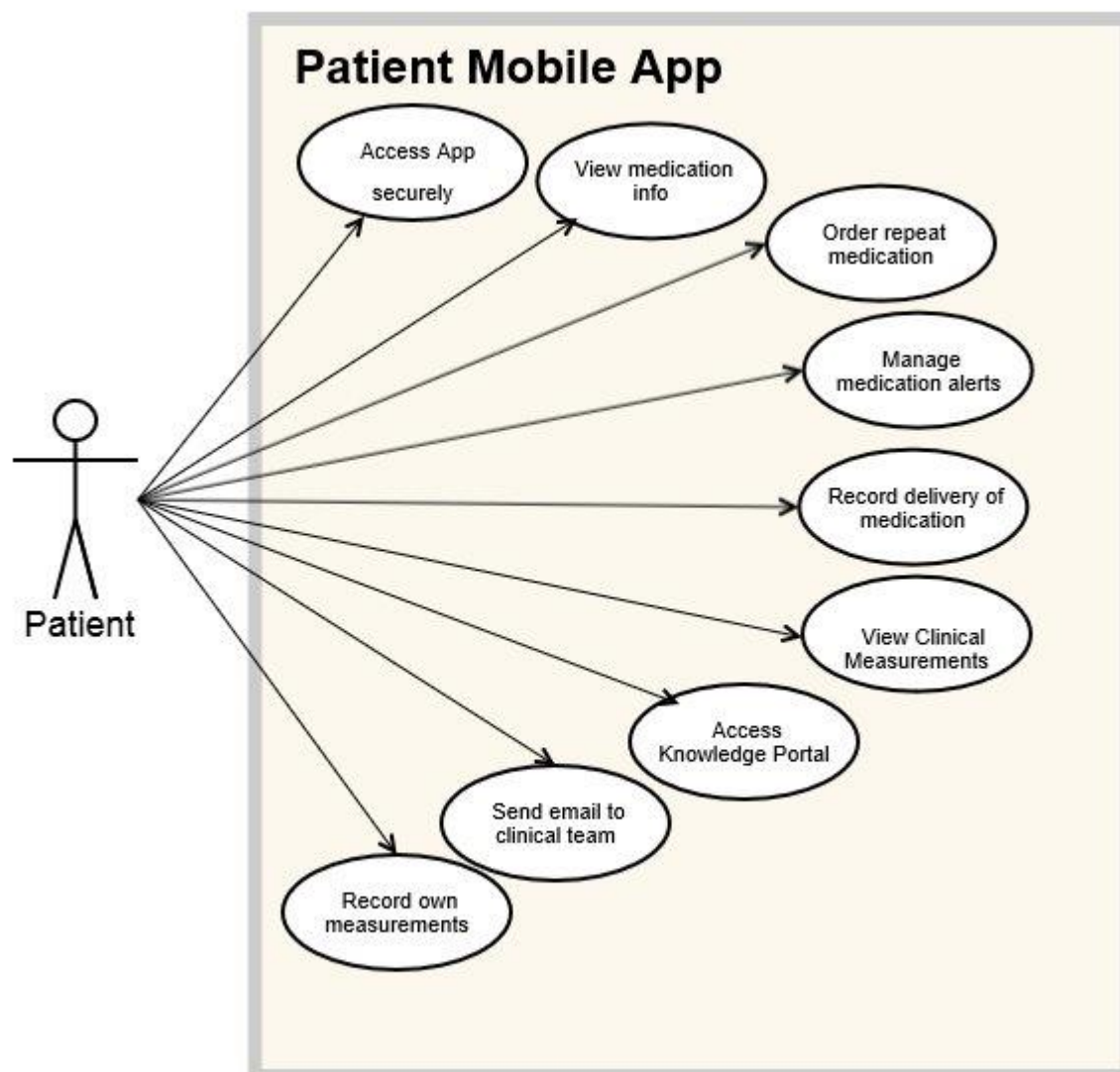


Figure 2: Mobile App Use Cases



Each user story describes a specific element of required functionality and is accompanied by a set of 'Acceptance Criteria'.

The acceptance criteria are designed to provide clarification of what is expected by the user for each element of functionality in order that the function meets their expectations. The acceptance criteria are therefore vital pieces of information that both inform the design of the product and the development and testing of the product once development is in progress.

The requirements document is embedded here:



Requirements
Summary 0v02

At this stage of the requirements capture process, there are still several questions to be asked in order to complete a full requirements list. These questions are highlighted in the attached Requirements Summary spreadsheet.

Data items required for 'Prescription Form'

Currently, the following fields are available in the LTHT 'Prescription for supply of Homecare Medicines' form.

Clarification is required regarding whether all of these are required in the Clinical Module version, and outstanding queries for some fields are listed below:

<u>Field Title</u>	<u>Detail</u>	<u>Query</u>
Title		
Name		
Patient's Address		
Postcode		
DoB		
Hospital Number		Is this recorded on EMIS Web?
Status	<ul style="list-style-type: none"> - Registered pt - New pt 	Is this required, and where is that info derived?
Weight (kgs)	If age under 16	
Date delivery required by		Is this auto-calculated, or filled in by hand at the point of issue?
Alternative delivery address		Is this permanently stored somewhere, or added by hand at the point of issue?
Consultant		
NHS Number		
Prescription Type	<ul style="list-style-type: none"> - Prescription renewal - Dose change 	Is this derived or filled in by hand at the point of issue?
Allergies		Merged from clinical record?
Special requirements		Is this filled in by hand at the point of issue?
Name of medicine		Merged from prescription info?
Form		Merged from prescription info?
Route		Merged from prescription info?
Does		Merged from prescription info?
Dose Frequency		Merged from prescription info?
Quantity supplied		Merged from prescription info?
Alternative months treatment?	Select one	Filled in by hand at the point of issue?
Continuous treatment?		
Comments		Free text at the point of issue?
<i>Text reading:</i>	'Please deliver ONE monthly multipack (224 capsules and 5 inhalers) every (x) month(s). Prescription valid for (y) months'	How is this used?
Name of prescriber		Doctor or pharmacist? Electronic signatures?
Qualification or GMC No		
Signature		
Date		
Contact No		

Clinical Pharmacy Validation by:		CF Pharmacist or Hospital Pharmacist? Electronic signatures?
Signature		
Date		
Contact No		
Purchase order no		Filled in by hand at the point of issue?
Specialty/Contract		Filled in by hand at the point of issue?
Homecare provider	Name Address Fax No	Is this always going to be the same or will different providers be used for different items/patients/postcodes etc?