

List of Candidate Classes

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3. ICLINICBoardForm
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5. Account
6. Worker
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15. PatientList
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30. UIComponent
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34. Date
35. Pen
36. Account
37. Button
38. ID
39. Name
40. Address
41. DateOfBirth
42. Height
43. Weight
44. BloodGroup

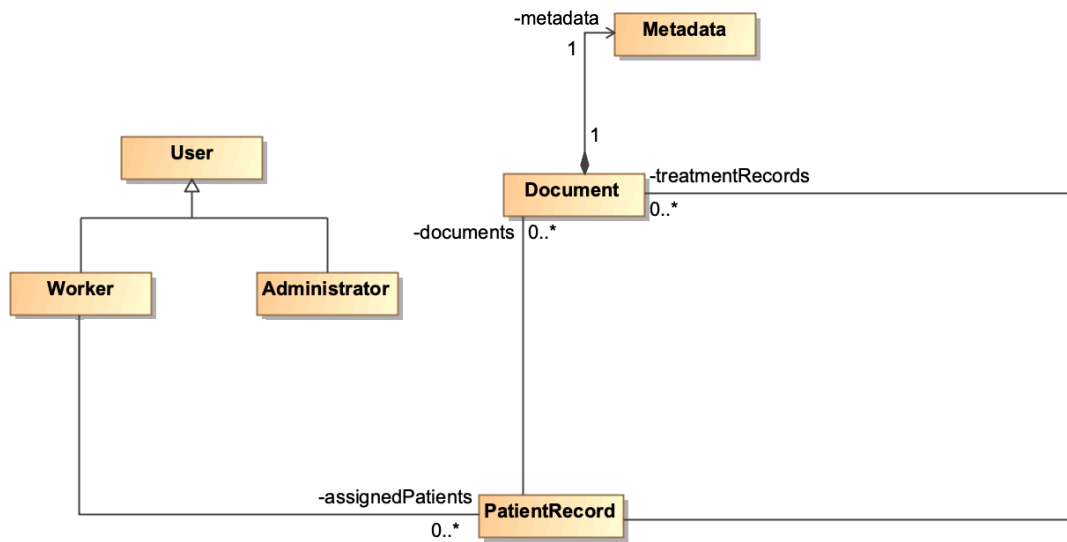
Filtered List of Candidate Classes

Class Name	Class Type	Brief Description
User	Entity	A general user (a doctor, nurse, or administrator) that contains a username and password. All this user can do is authenticate.
Worker	Entity	A Worker is either nurse or doctor, and is a type of user. This user can manage patient records. Inherits from UserAccount, and will also contain a list of assigned patients.
Administrator	Entity	An Administrator is a type of User that can add, edit, or remove workers. This contains the same attributes as a UserAccount.
Document	Entity	A Document is a general collection of text. This may be attached to a patient and may be created from a physical document or digitally. These documents are in PDF format, and contains Metadata, text, as well as a type (either a general document, a drug order, a prescription, or a treatment record)
Metadata	Entity	A dataset used for documents that includes a Patient ID, Date of creation/imported, the User ID of the creator/importer, Modification Date, the User ID of the modifier, and a Brief Description.
PatientRecord	Entity	A Patient Record represents patients stored in the system. Includes a collection of digital documents, zero or more TreatmentRecords, ID, name, address, date of birth, height, weight, blood group, bed ID, and treatment area.
LogInForm	Boundary	A form that contains fields for a password and a menu of usernames. Accepts input from a digital pen or on-screen keyboard. Submitted by User to LogIn, and results in a series of controls presented that match the User's permissions.
ICLINICBoardForm	Boundary	Form that will present a list of patients (as PatientButtons) to Workers according to geographic unit view.
MyBoardForm	Boundary	Form that will present assigned patients to Workers
PaletteComponent	Boundary	A component that will present a series of document buttons from the system on one page.
DocumentButton	Boundary	A button that represents a Document. When selected, the represented Document is selected for use by the Worker.

ManageWorkerAccountForm	Boundary	This form is used by the Administrator to view accounts, edit their information, or delete them.
AddWorkerAccountForm	Boundary	This form is used by the administrator to add a new Worker account
PatientButton	Boundary	A Button that represents a patient. When a Worker selects the button, they will be assigning the patient to themselves. Used as part of the AssignPatient use case.
ManageDocumentForm	Boundary	This form will be used by the Worker to create a new document and edit its contents. This form supports autocomplete and text insertion.
ImportImageForm	Boundary	This form allows Workers to import images from the system, or from the Scanner
Scanner	Boundary	This represents the physical scanner used by the Worker to import physical documents
Tablet	Boundary	Tablet computer used by User
ManagePatientRecordForm	Boundary	This form is used by the Worker to add a new patient to the system, or edit the information of an existing patient.
AuthenticateUserControl	Control	Is created when User initiates AuthenticateUser use case. It then creates a LogInForm and presents it to the User. Collects information from the form, verifies it with iCLINIC's list of account records, and then presents the User with a set of controls that reflects the User's permission level.
ManageWorkerAccountControl	Control	Is created when Administrator initiates the ManageWorkerAccount use case. It then creates a ManageWorkerAccountForm and presents it to the Administrator, collects the information, and makes the appropriate changes in the iCLINIC database.
AddWorkerAccountControl	Control	Is created when the Administrator initiates the AddWorkerAccount use case. It then creates a AddWorkerAccountForm and presents it to the Administrator, collects the information, and makes the appropriate changes in the iCLINIC database.
DisplayICLINICBoardControl	Control	Is created when Worker initiates the DisplayiCLINICBoard use case. It then creates a ICLINICBoardForm and presents it to the Worker

AssignPatientControl	Control	Is created when Worker initiates the AssignWorker use case. It then creates an ICLINICBoardForm and presents it to the Worker. When the worker selects a patient (i.e. presses a PatientButton), it will assign the patient to the logged in user.
DisplayPaletteControl	Control	Is created when Worker initiates the DisplayPalette use case. It then presents a PaletteComponent that represents all the documents in the document repository to the Worker. When the Worker selects a document, the control selects the document for use.
DisplayMyBoardControl	Control	Is Created when Worker initiates the DisplayMyBoard use case. It then presents a MyBoardForm to the Worker.
ManageDocumentControl	Control	Is created when Worker initiates the ManageDocument use case. It presents a ManageDocumentForm to the Worker.
ManageDrugManagementControl	Control	Is created when Worker initiates the ManageDocument use case. It will provide a utility for autocompleting common drug names based on the latest data available in the external database.
ImportImagesControl	Control	Is created when Worker initiates the ImportImages use case. It will present the Worker with a ImportImageForm. It will collect the information and the image (either from memory or an external scanner), convert the document to PDF, and add it to the iCLINIC repository.
ManagePatientRecordControl	Control	Is created when the Worker initiates the ManagePatientRecord use case. It will present the Worker with a ManagePatientRecordForm, collect the information, and update/add the patient record in the iCLINIC database.

Potential iCLINIC Class Diagram



Revised iCLINIC Class Diagram

Class Name	Attribute Name	Attribute Type	Brief Description
User	userID	String	This reflects the username of a User and will be used to log in to the system. UserIDs are unique and will be used to locate users in database
User	password	String	This reflects the password of a User and will be used to authenticate a user and log in to the system.
Worker	workerType	String	This should either have a value of “nurse” or “doctor” and reflects the two types of Workers.
Metadata	patientID	int	This is the ID of the Patient who is attached to the Document.
Metadata	dateOfCreation	Date	This is the date the Document was created
Metadata	creatorUserID	String	This is the UserID of the Worker who created the document
Metadata	modifierUserID	String	This is the UserID of the Worker who modified the document last
Metadata	dateOfModification	Date	This is the date the Document was modified
Metadata	description	String	A brief description of the document.
Document	text	String	This is the content of the document
Document	type	String	This is the type of document it is (either “drugOrder”, “treatmentRecord”, “prescription”, or “default” which means no special type)
PatientRecord	patientID	int	This is the Unique ID created by the system that allows the system to locate the Patient in the database
PatientRecord	dateOfBirth	Date	This is the date of birth of the patient
PatientRecord	name	String	This is the name of the patient
PatientRecord	address	String	This is the address of the patient
PatientRecord	height	float	This is the height of the patient in centimetres
PatientRecord	weight	float	This is the weight of the patient in kilograms
PatientRecord	bloodGroup	String	This is the patient’s blood type
PatientRecord	bedID	int	This is the ID of the bed that the patient is at.
PatientRecord	treatmentArea	String	This is the treatment area the patient is in (i.e. paediatrics, cardio, etc.)

