

GenNex AT HOME SERVICES USE CASE MODELING

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INTRODUCTION

GenNex Diagnostics and Devices Ltd, is a diagnostic company with diversified products and service portfolios. We have partnerships with hospitals, insurance companies and hospital networks. We are the pioneers in moving from traditional revenue streams into information services, in healthcare industry.

With the changing customer needs and new government regulation (Obama Care) the healthcare industry is changing vigorously in order to improve Heath Care in Unites States of America. GenNex being a forerunner plans to implement outcome-based fee by changing the traditional Fee-for service payment model. The fee-for-service system of payment for health care services is widely thought to be one of the major culprits in driving up U.S. health care costs. This system not only encourages volume but rewards poor quality and provides little incentive for care coordination. GenNex is partnering with likely and unlikely businesses to step-into new dimension in order to deliver best end-to-end experience to the consumer.

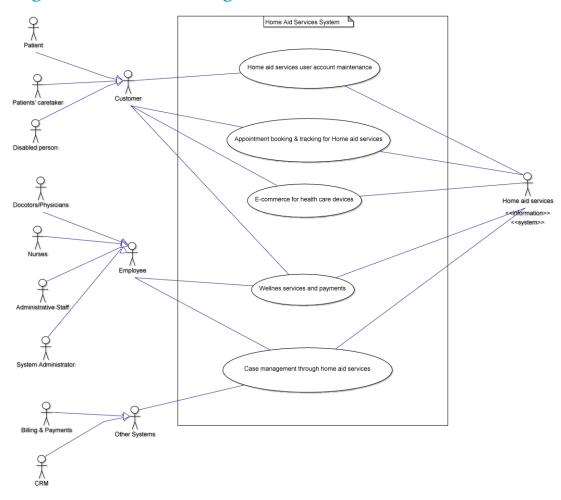
GenNex also volunteers for Bundled Payments for Care Improvement Initiative to collaborate in order improve both the quality and efficiency of individual episodes of care.

GenNex Diagnostics and Devices is a diagnostics firm with tie ups with various businesses. In this document, we consider the e-commerce division of GenNex which deals with the online purchase and returns of healthcare products. The product portfolio of GenNex marketplace includes medical assistance products like wheelchairs, hearing aids, insulin testers etc. Additionally, we also offer laboratory equipment refills like syringes, cotton swabs, first-aid kits etc. Shipping is provided via UPS deliveries and payment through payment gateways like PayPal and Payflow Pro.

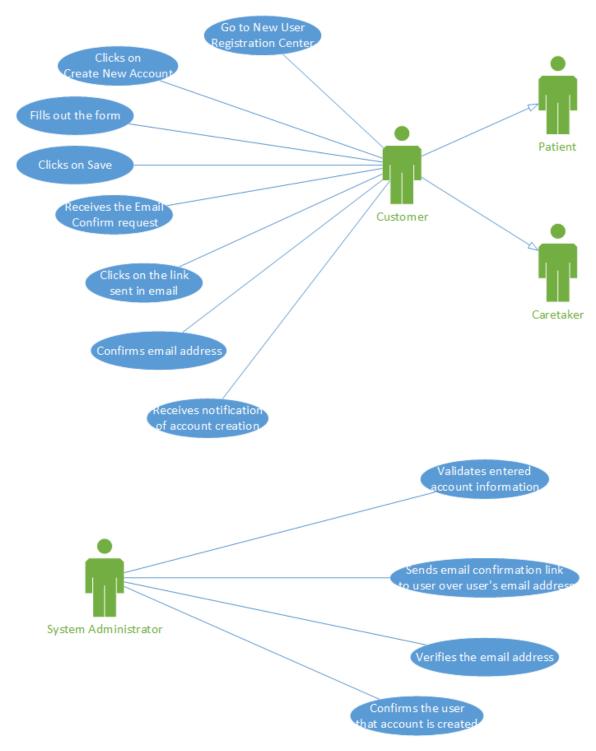
GenNex provides At Home aid services where GenNex sells their devices and also provides home aid support to its customers. The use case modeling below explains the Home Aid Support information system of GenNex. The use-case narratives provide pre-conditions, triggers, course of events, alternate course of events, post conditions, business rules, implementation constraints and finally open issues. The intent of these narratives is to convey the functionality of systems from the perspective of an external user in a manner in which they understand.

USE CASE DIAGRAMS

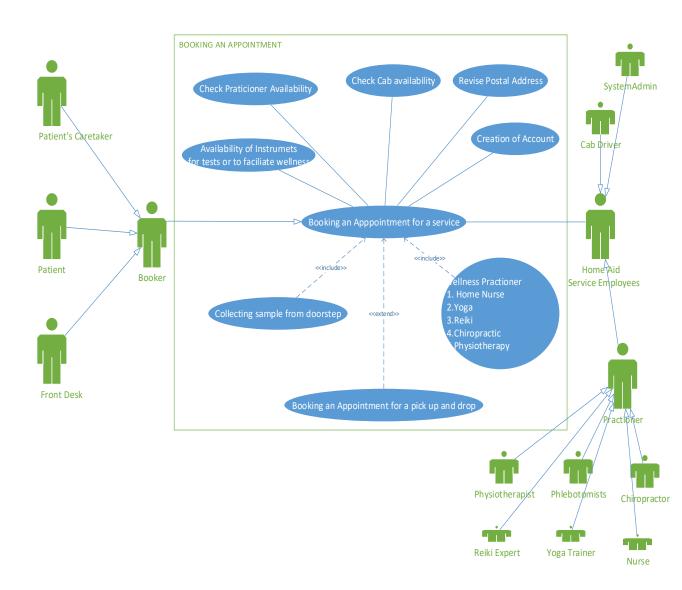
High Level Use Case Diagram



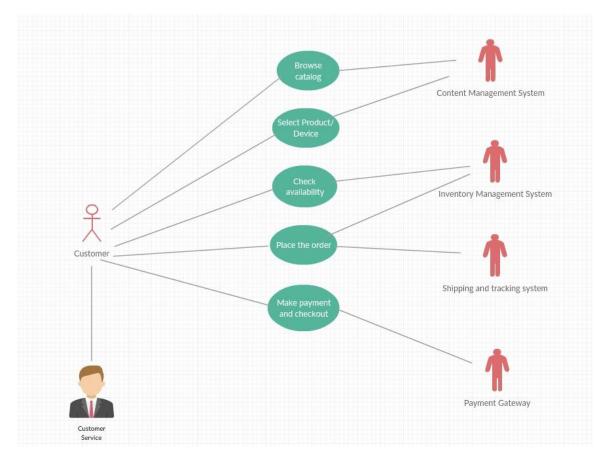
Home Aid Services User Account Creation



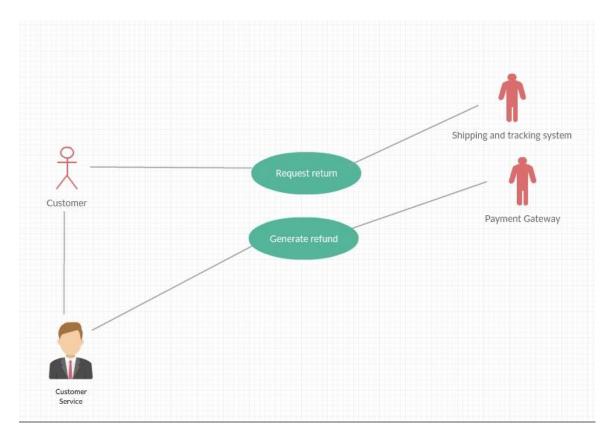
Appointment Booking and Tracking for Home Aid Services



E-commerce for Home Aid Devices

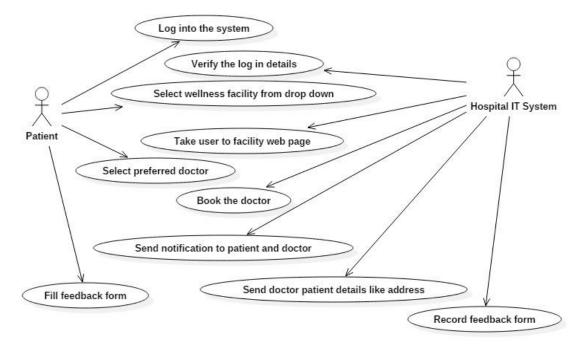


Orders and Delivery

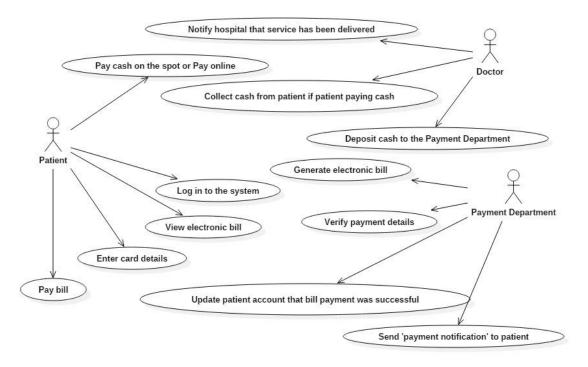


Returns and Refunds

Wellness Services and Payments

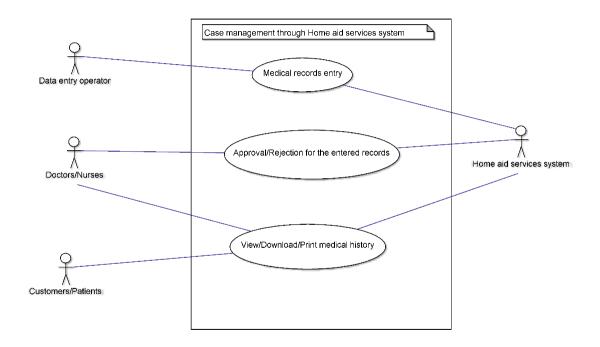


Wellness Services



Payments

Case Management through Home Aid Services



USE CASE TABLES

Actor	Event	Trigger	Post	Dependency	Risks
			Conditions		
Customer	Creating	The user	The User	User clicks	Internet
(Patients,	new	gets	entered	on create	connectivity
Patient's	Account	registered	invalid data	new account	issues
caretaker)		when	or chose to		
		she/he	cancel the		
		hits the	account		
		create	creation		
		account	request. In		
		button.	either case,		
		The user	no account		
		is			

		registered	will be	
		when	created	
		user		
		verifies		
		its email		
		address		
System	Validates	Validates	User	
Administrator	the user	the user		
		account		
		by		
		verifying		
		email		
		address		

ACTOR GLOSSARY

Actor	Description
Customer	An individual who wants to buy healthcare
	products on the online marketplace.
Inventory Management	A system which keeps track of the product
System	inventory.
Content Management	A system which maintains the interface between
System	products for sale and the user.
Payment Gateway	A system used to make payments and generate
	refunds.
Shipment and Tracking	A system which handles product deliveries and
	tracking.
Customer Service	Services provided to customers for product
	feedback, returns and refunds.

USE CASE GLOSSARY

Use-case Name	Use-case Description	Participating Actors and Roles
Orders and deliveries	This use-case involves steps from customer	1. Customer

	browsing the product	2. Inventory
	catalog to the product	Management
	delivery.	System
		3. Shipment and
		tracking
		4. Content
		management
		system
		5. Payment gateway
Returns and refund	This use-case is for the	1. Customer
	scenario when the	2. Inventory
	customer generates a	Managemet System
	return or a refund	3. Shipment and
	request.	Tracking
		4. Customer Service
		5. Payment gateway

USE CASE NARRATIVE

Home Aid Services User Account Creation

Name	Create Home Aid Service Account	
Brief Description	The Create Account use case allows the User to create a login and become a Registered User for home aid services.	
Actor(s)	Customer (Patients, Patient's caretaker) , Employee (Doctors, Nurses, Administrative staff, System Administrator, physiotherapist)	
Other Participating Actors	Hospital Networks, Cab Partners, Pharmacists	
Other interested stakeholders	Government, Other systems	
Description	This use case will explain the flow of creating account for Home Aid services.	
Pre-condition	The user should not be an existing user.	
Trigger	The user gets registered when she/he hits the create account button. The user is registered when user verifies its email address	

Typical Course Events

This use case starts when the User accesses the system feature that enables him/her to create an account by entering information that is maintained in the User's account.

- 1. User accesses the new user registration section of Create Account
- 2. User provides following information for the account :
 - a. Username
 - b. First Name
 - c. Last Name
 - d. City
 - e. State
 - f. Username a unique name by which the user can be identified
 - g. Password since the text of this field is masked, it is entered twice to ensure it is typed as intended
 - h. Contact Information
 - i. Work Phone Number
 - ii. Cell Phone Number
 - iii. Email Address
- 3. User requests the system to save the entered values
- 4. System validates the entered account information
- 5. System sends email confirmation back to the user in order to validate the email address
- 6. Once the user's email is verified, the values for the user account information is stored in the database
- 7. The system notifies the user that account is created
- 8. The use case ends

Alternate Courses

Antenate Courses			
Title	Description		
User Enters Invalid User Account Information	If during Create Account, the system determines that the User entered invalid User Account information, the following occurs: 1. The system describes which entered data was invalid and presents the User with suggestions for entering valid data		
	2. The system prompts the User to re-enter the invalid information		
	The User re-enters the information and the system re-validates it		

	4. If valid information is entered, the User Account Information is stored	
	5. If invalid information is entered, the Entered Information is Invalid alternative flow is executed again. This continues until the User enters valid information, or chooses Cancel	
	Invalid User Account information:	
	- Missing information items	
	 Username already exists in the system 	
	 User Account information entered does not comply to its definition in the glossary 	
	- Not well formed e-mail address	
	- Offending words in any part of the <i>User Account</i> information	
User Cancels Request	At any time, the User may choose to cancel the account creation. At which point, the processing is discontinued, the user account remains unchanged, and the user is notified that the account management request has been cancelled.	
Modify User account	If User needs to modify the properties of a user account (e.g. password, contact information, etc.)	
	1. User selects the "Modify" command on their account	
	2. System present user detail with edit mode	
	3. User modifies the user account information described in Step 2 of the Typical course events	
	4. User selects the "Save Changes" command to update the user account	
	5. System validates the information provided and determines that validation is passed. It follows steps 5,6, 7 of Typical course events	
	6. The use case ends	
Post-Conditions		
Title	Description	
Success	The User entered data is stored in the user account. Confirmation is sent to the appropriate email address.	

The user account was not created	The User entered invalid data or chose to cancel the account creation request. In either case, no account will be created.
Business Rules	Password must conform to the configured defined GenNex account password strength policy Username must be unique and conform to the configured GenNex account username policy (such as minimum characters) Email address provided by the user must be verified before user account is created
Implementation Constraints and Specifications	The user might provide incorrect details to complete the process of account creation
Assumptions	Only the user who themselves or for whom they take care for creates an account i.e if aged people or disable patients won't be well verse with information system so their care taken can make account on their behalf.
	Also once the account is created, system takes care of the patient's preference to reach them via email/calls or texts.
Open Issues	Account creation of the whole GenNex system is evitable.

Appointment Booking and Tracking for Home Aid Services

1.	USE CASE NAME	Booking an Appointment	USE CASE TYPE
			Business Requirement
2.	Priority	High	
3	Primary Business Actor	Booker – Patient, Front Desk, Caretaker	
4	Secondary Business Actor	Home Aid Service Employee's , Provider	
5	Pre-Condition	 Book An Appointment for a service Patient has a registered account at GenNex 	
6	Trigger	When the user clicks on "Book an Appointment"	

8.	Dependencies Typical Course Of Action:	1.Practioner Availability 2.Cab Availability 3.Account Creation 4.Address Verification 5.Instrument Availability Actor Action	System Action/Response
	Happy Path	Step 1: The user logs in to the 'Home Aid Service' system using their registered email address and password	Step 2: System validates the login and the user is logged into the User Dashboard of 'Home Aid Service' system
		Step 3: User clicks on the "Book an Appointment" Button	Step 4: The system displays a drop down listing the services and appointment can be booked for: 1. Door step sample collection 2. Nurse – Personal Assistant 3. Physiotherapist 4. Yoga Trainer 5. Reiki Expert 6. Chiropractor 7. Cab driver
		Step 5: User selects a 'Service' from the drop down option and clicks on 'Next'	Step 6: System displays the available dates and the time slots to book an appointment
		Step 7: User selects the appointment date and time slot and clicks on 'Next'	Step 8 : System navigates to a page that prompts the user to enter the address and phone number
		 User selects the registered address and registered phone number and clicks 'Next' User clicks on add new address and 	 System selects and confirms the address and time of the booking and prompts the user to confirm System adds the new address and phone

		enters the address and phone number and clicks 'Next'	number of the booking and prompts the user to confirm
		Step 11: User confirms the booking	 Step 12: System displays a message "Booking Confirmed "System sends an appointment booking confirmation to the registered email address System displays the booking The details of the booking in the display and the email include: Name of the patient Service requested Date of service duration of service Assigned Service Practitioners name Pre- requisites on diet from the patient's end
9.	Alternate Course Of Action:	Actions	
	Alternate Course Of Action: @ User calls the front desk to book an appointment	 Alt Step 1: User calls up the 'Home Aid Service' to book an appointment The front desk receive the call and request for registered email The front desk verifies for the registered email by 	

	entering the email address in the system Alt step 2: System validates the email address and navigates to the User Dashboard of 'Home Aid Service' system Step 3	
Alternate Course Of Action: @ User Validation Fails	 System display's an appropriate error and prompts the user to login again Step 1 System allows the user to attempt to log in correctly with the registered email address thrice only After three failed login attempts System displays the message" You have been locked out of your account for 24 hours. You may call up 'GenNex Home Health Services' at 1800-978-675 to book an appointment' Alt Step 1 from User calls the front desk to book an appointment: User calls up the 'Home Aid Service' 	

Action: @ No time slots available for the booking request	to book an appointment The front desk receive the call and request for registered email The front desk verifies for the registered email by entering the email address in the system User Calls help desk Alt step 2: System validates the email address and navigates to the User Dashboard of 'Home Aid Service' system Step 3 Alt Step 6: If no time slots are available, System displays a message "No time slots available at this moment, we will call you back if any slots are available the relationship manager calls up the customer and then facilitates a booking Step 7 Alt Step 9:	
Action:	 User does not enter all the mandatory 	

@ Address and Phone	address fields then	
number verification	the system prompts	
fails	an appropriate	
	error message	
	" Please enter all	
	the mandatory	
	address fields"	
	 User does not enter 	
	a valid phone	
	number then the	
	system prompts an	
	error message"	
	please enter a valid	
	phone number"	
	Once the user has entered	
	correct address and phone	
	number details proceed to	
	Step 11	
Alternate Course Of	Alt Step 12:	
Action:	 System is not able 	
@ System is not able	to generate a	
to generate a	booking	
confirmation	confirmation	
	immediately after	
	the request is	
	processed the	
	system should display a message	
	saying : " The	
	appointment will	
	be mailed to you	
	on the registered	
	email address	
	within 10 minutes"	
	If the appointment	
	is not mailed to the	
	registered user in 8	
	minutes the Admin	
	gets notified about	
	the failed booking	
	and he/she ensures	
	booking request is	

	successful and then mailing the appointment to the registered user	
Post Condition	The appointment is booked and all the actors are notified about the appointment	
Business Rules	 Can book only one appointment at a time Can schedule only daily appointments 	
Implementation Constraints	 The online application is designed to work only for 100 users at the same time If no slots available as requested ,you will be waitlisted and called to confirm appointment at for that slot if it is available later 	
Open Issues	 How do we receive billing and claim details? Who is responsible for syncing of new account creation How do we receive reports after a patient is completely diagnosed? 	
Assumptions	 User knows to use the system Customer address details are correct 	

 Customer phone number is functional and correct System is not designed for Specially Abled users. Specially abled users need 	
assistance to "Book an Appointment"	

E-commerce for Home Aid Devices

Use-case Name	Orders and Deliveries	Use-case Type:
Use-case ID	1	Business
Priority	Medium	Requirements
Source	Need for diagnostic products	
Primary Business Actor	Customer	
Other Participating	1. Content Management S	ystem
Actors	Inventory Management	System
	3. Payment Gateway	
	4. Shipping and Tracking	System
	5. Customer Service	
Other Interested	1. Marketing – Interested	in sales for
Stakeholders	promotion purposes	
	2. Procurement – Interested in sales activity to	
	replenish inventory	
	3. Management - Interested in purchase	
	activity to assess sales performance	
Description	This use-case describes the e-commerce of	
	diagnostic and health devices.	It is triggered when
	a customer is in need of a diag	nostic device.
	Customer will browse the store	e catalog in the
	online store of GenNex and sel	ect a device. He will
	then place an order and make	payment through a
	payment gateway. On completion, the customer	
	receives the product by home delivery. In case of	
	refunds, customer service is involved and refund is	
	generated.	

Pre-condition	Customer has a health condition.	
Trigger	Customer needs a health device.	
Course of events	Actor Action	System Response
	Step 1: Customer browses the catalog for product required from the content management system. Step 2: Customer selects the product. Step 4: Customer places the order. Step 6: Customer makes a payment through the payment gateway.	Step 3: Inventory Management System checks the availability of the product. Step 5: Order details are updated in the shipping and tracking system. Step 7: Product is delivered to the customer via shipping and tracking system.
Alternate course of events	 Alt-Step 3: The product selected by the customer is out of stock. Create an out-of-stock notification and suggest alternate products. Alt-Step 6: The customer enters wrong payment details. Generate an error and prompt the customer to enter new details. Alt-Step 7: Customer receives a defective/wrong product. Customer service handles defect requests and generates a refund. The use-case concludes when the customer 	
Conclusion	receives the product.	nen the customer
Post-condition	The customer received the correct product in	
Business Rules	working condition. 1. Customers must have an account created. 2. One customer must have one account.	

	3. Payments must be made through the	
	payment gateway.	
Implementation	 GUI must be provided for customers to use 	
constraints and	content management system.	
specifications	2. Payment gateway must have highest amount	
	of security and encryption.	
Assumptions	1. Customers are in need of medical devices.	
	2. Customer does not cancel orders before	
	shipping.	
Open Issues	Payment options need to be figured out i.e.	
	whether to allow cash, debit or credit payments.	

Use-case Name	Returns and Refund	Use-case Type:
Use-case ID	2	Business
Priority	Medium	Requirements
Source	Delivered product is	
	faulty/incorrect	
Primary Business Actor	Customer	
Other Participating	 Inventory Managem 	nent System
Actors	2. Payment Gateway	
	Shipping and Track	ing System
	4. Customer Service	
Other Interested		rested in sales activity to
Stakeholders	update inventory	_
	2. Customer Relations	
		e effective returns and
	refund	
Description	This use-case describes the return and refund of	
	diagnostic products from the online store of	
	GenNex. It is triggered when the customer receives	
	a defective or a incorrect product. It concludes	
	when the customer receive	es a refund into his
D 11.1	account.	/*
Pre-condition	Customer receives a faulty	
Trigger	Customer receives a faulty/incorrect product.	
Course of events	Actor Action	System Response
	Cham	Chamai
	Step 1:	Step 2:
	Customer raises a	Shipping and tracking
	return/refund request	System receives the
	via customer service.	

	Step 3: Customer service	request and schedules a pickup for return.
	generates a refund	Step 4:
	request.	Refund is generated
		through the payment
		gateway and credited to
		the customer account.
Alternate course of	_	et returns are out of
events		ea. In this case, the
		ted to search for nearest
		n where the product can
	be picked up for re	
Conclusion	The use-case concludes when the customer receives	
	the refund and inventory receives the product.	
Post-condition	Customer received the refund and distribution	
	center received the product.	
Business Rules	1. Customers must have an account created.	
	2. The product delivered must be faulty or	
	incorrect.	
		enerated through the
	payment gateway.	
Implementation		ded for customers to use
constraints and	content management system.	
specifications	2. Payment gateway must have highest amount	
	of security and encryption.	
Assumptions	Customer receives a faulty/incorrect product.	
Open Issues	Refund options need to be figured out i.e. whether	
	to allow credit refunds or gift coupons.	

Wellness Services and Payments

USE CASE	Wellness	USE CASE TYPE
NAME		
		Business Requirement
Priority	High	
Primary	Patient/Guardian/Disabled Patient	
Business		
Actor		

Other	Doctor, Admin, Yoga teacher, Reiki specialist,	
Participating	Physiotherapist, Chiropractic	
Actors		
Description	This use case describes a service provided by	
	GenNex as part of the Home Health Aid. In	
	this use case, the patient logs in to the	
	GenNex website and under the Home Health	
	Aid tab requests for services like	
	physiotherapy, chiropractic, yoga sessions at	
	home, reiki sessions, acupuncture etc. GenNex responds by sending the specialist	
	over to the patient's house for the required	
	duration as specified by the patient.	
Precondition	The user patient/patients need to have a user	
recondition	account created on the GenNex website.	
Trigger	When the patient books an appointment on	
1118801	the GenNex website through their account.	
Typical	Actor Action	System Action/Response
Course event		
	Step 1 : The patient/guardian/disabled patient	Step 2 : The user credentials
	logs into the system using their credentials	are successfully verified and
		the user is logged into the
		system
	Step 3 : The patient selects the facility they	Step 4 : The system takes the
	want to avail from the drop down list.	user to the webpage for the
		facility they requested.
	Step 5 : The user selects the doctor they prefer	Step 6 : The system books
		the doctor for the facility the
		patient requested. Step 7 : The patient and the
		doctor are sent notifications
		about the appointment
		confirmation
		Step 8 : The doctor is sent
		patient details like their
		home address, the day/date
		of the appointment, the
		duration of the appointment
		etc.
	Step 9 : The patient fills a feedback form.	Step 10 :The feedback is
		recorded into the system

Alternate	Alt Step 2: The validation fails and the	
Courses	system asks the user to log in again and after	
	three attempts the account is locked.	
	Alt Step 5 : If the doctor preferred by the	
	patient is not available or not on duty, the	
	patient selects a different doctor.	
	Alt Step 7 : If the patient does not receive an	
	appointment confirmation within an hour,	
	the admin is notified.	
Conclusion	The use case concludes when the user	
	successfully books and appointment and	
	receives an appointment notification.	
Post	The system sends reminder messages to the	
Condition	doctor and the patient. The patient is sent an	
	electronic bill as well once the appointment is	
	over. The patient has the option to pay on the	
	spot or online. Once the payment is done the	
	patient	
Business	1) The patient has to have a valid user	
Rule	account on the GenNex website.	
	2) The system will generate immediate	
	appointment confirmation message to the	
	patient.	
	3) The system will also immediately inform	
	the doctor of the appointment and send all	
	required patient information to the doctor.	

USE CASE	Payment for the wellness services	USE CASE TYPE
NAME		
		Business Requirement
Priority	High	
Primary	Patient/Guardian/Disabled Patient	
Business		
Actor		
Other	Doctor, Admin, Yoga teacher, Reiki	
Participating	specialist, Physiotherapist, Chiropractic	
Actors		
Description	This use case describes a service provided	
	by GenNex as part of the Home Health Aid.	
	In this use case, the patient pays for the	
	service they have used either through	

	1, 1, 1,	
online portal or immediately in person at		
	home to the doctor providing the services.	
Precondition	The user patient/patients need to have a	
	user account created on the GenNex	
	website for online payment and card details	
	must be entered at all times in case the	
	patient fails to pay in person.	
Trigger	When the doctor notifies the system that	
	the service has been successfully delivered	
	to the patient.	
Typical	Actor Action	System Action/Response
Course event		*
	Step 1 : The doctor notifies that the required	Step 2 : A physical bill is
	service has been delivered to the patient.	generated by the doctor on
		the spot and also an online
		bill is generated for online
		payment and further
		references.
	Step 3 : The patient decides whether they	Step 4 : The doctor collects
	want to pay on the spot or through online.	cash if the patient decides to
	1 7 1 0	pay on the spot.
		Step 5 : The doctor notifies
		the system if the user decides
		to pay online.
	Step 6: The user makes an online payment.	Step 7 : The system verifies
	1 7	the payment details and
		records a payment.
		Step 8 : A 'payment successful'
		message is sent back to notify
		the patient.
Alternate	Alt Step 2 : If the doctor forgets to generate	<u>*</u>
Courses	a bill in the case that the patient decides to	
	pay online, an electronic bill is generated	
	for the convenience of the patient and the	
	administration.	
	Alt Step 5 : If the online payment fails,	
	someone from the Payment department	
	calls and notifies the patient.	

	Alt Step 8 : If the patient does not receive a	
	payment confirmation within 48 hours of	
	making the payment, the admin is notified.	
Conclusion	The use case concludes when the patient	
	receives a 'payment successful' message	
	from the system after making the payment.	
Post	The system sends timely payment	
Condition	reminders to the patient if the patient	
	forgets to pay online. The system also sends	
	the doctor (who collected the payment on	
	the spot) reminder messages to deposit the	
	patient cash received in the Payment	
	Department.	
Business	1) The patient has to have a valid credit card	
Rule	for online payment.	
	2) The system will electronic bills	
	irrespective of the mode of payment.	
	3) The system will also immediately inform	
	the patient as soon as the payment has been	
	successfully verified and recorded in the	
	system.	
Open Issues	Communication with the Payment	
	department regarding the refund of faulty/	
	unsatisfied services.	

Case Management through Home Aid Services

Brief Description:	The purpose of this Use case is to feed in the data related to patients provided by nurses, doctors/physicians etc. The data pertains to prescription that the patient received or blood pressure reading nurses take at patients' home or test results etc.
Business Trigger:	Publishing of Doctor's prescription, Test results etc. online for customers/patients.

Technical Trigger:	Login by a data entry operator into the portal
Primary Actors:	Data entry operator
Secondary Actors:	Authorized doctors to sign off new entry to publish online.
Preconditions:	1. Home aid services system should be up and running.
	2. Data should be available in material or electronic form.
Dependencies:	Dependency of this use case is on the activity of giving
	access rights by the system administrator to the data entry
	operator. If access giving use case is not successful then this
	use case will never succeed.

Ba	Basic Flow: Data entry after successful login.			
As	Assumptions: Data entry operator has all required access to the system.			
Sy	stem Actor Action	Sy	stem Response	
1.	Data entry operator will open the	2.	To check the authenticity and	
	Home aid services portal.		authorization system will	
			present the login screen.	
3.	Data entry operator will login into the	4.	System will validate the	
	system.		credentials and user will be	
			presented with the authorized	
			menu list.	
5.	Data entry operator will select enter	6.	System will present the screen	
	patient's data menu.		to search/select patient id.	
7.	Data entry operator will enter the	8.	System will show the patient	
	patient id and will search for it.		account name.	

9.	Data entry oper	ator will select the	10.	System will open up the account
	account.			with all available details and
				other options.
11.	Data entry open	ator will select create	12.	System will open up new page
	new entry optio	n.		asking what type of entry to be
				fed in.
13.	Data entry oper	ator will select the type	14.	System will open up the screen
	of entry to be fe	ed in. It could be test		based on user selection for data
	results, prescrip	tion given by doctor		entry.
	etc.			
15.	Data entry oper	ator will input all the	16.	System will internally process
	required/provid	led details on the		the request and will store the
	screen and will	click on submit.		data into the system and will
				respond with confirmation
				saying data saved successfully.
17.	Data entry oper	ator will then click ok	18.	System will close the session for
	to acknowledge the system message			that user.
and logout from the system.				
Po	Post Condition: Data entry operator is lo		ogge	ed out of the system.

Alternate Flow 1 (AF1): Login failed			
Assumptions: Data entry operator does not have required access to the system.			
System Actor Action System Response			

1.	Data entry ope	erator will open the	2.	To check the authenticity and
	Home aid serv	ices portal.		authorization system will present
				the login screen.
3.	Data entry ope	erator will login into the	4.	System will validate the
	system.			credentials and user will be
				presented with a screen saying
				you are not authorized to use
				this system.
Po	ost	Data entry operator is	no	t able to log in to the system.
Co	ondition:			

Alternate Flow 2 (AF2): To add new entry again after successfully adding one.				
Assumptions: Data entry operator is alre	Assumptions: Data entry operator is already logged into the system.			
System Actor Action System Response				
1. Data entry operator click ok to	2. System will provide option to			
acknowledge the system message that	the user whether to add new			
data stored successfully.	entry again.			
3. Data entry operator select to add new	4. System will again take the user			
entry again.	to user new data entry page.			
Post Condition: Data entry operator is redirected to new data entry page.				

Business Rules:

Any customer/patient related data – reports, test results etc. need to be made available to customers/patients online, within 24 hours after the transaction/test/service is performed/delivered.

Implementation Constraint:

NA

Open Issues:

How much details about the customer/patient account, these data entry operator can see when they select/search customer/patient by their id.?

How much data can be published online for medical records related to patients?

Brief	The purpose of this Use case is that once the data entry is			
Description:	done for a customer/patient. Then the designated doctor			
	need to verify the entered details and sign it off, so that data			
	is published into the system and all those users who are			
	authorized to access this information can see the data			
	online.			
Business	Customer/Patient want to see their related details from their			
Trigger:	account.			

Technical Trigger:	Data entry saved into the system and it comes to Doctor's inbox for approval.			
Primary Actors:	Doctors with authority of signing off data entries, to publish.			
Secondary Actors:	Data entry operator can check whether their request was signed off and published.			
Preconditions:	Data entry is done by the data entry operator.			
Dependencies:	This use case depends on the activity of data feeding into the system and an approval request has come into Doctor's inbox. So, if data entry and approval request is not generated, this use case will fail.			

Basic Flow: Sign off data entry after successful login.			
Assumptions: Doctor has all required access to the system.			
System Actor Action	System Response		
Doctor will open the Home aid services portal.	2. To check the authenticity and authorization system will present the login screen.		
3. Doctor will login into the system.	4. System will validate the credentials and user will be presented with the authorized menu list.		

5. Doctor will select sign off patient's	6. System will present the screen	
record menu.	to search/select patient record	
	that need approval.	
7. Doctor will select patient record that	8. System will show the patient	
needs to be signed off.	record details.	
9. Doctor will select the approve button	10. System will save the response	
after review.	and acknowledge that entry has	
	been signed off.	
11. Doctor will then click ok to	12. System will close the session for	
acknowledge the system message and	that user.	
logout from the system.		
Post Condition: Doctor is logged out of the system.		

Alternate Flow 1 (AF1): Login failed			
Assumptions: Doctor does not have required access to the system.			
System Actor Action	System Response		
1. Doctor will open the Home aid	2. To check the authenticity and		
services portal.	authorization system will present		
	the login screen.		
3. Doctor will login into the system.	4. System will validate the		
	credentials and user will be		
	presented with a screen saying		

		you are not authorized to use this system.
Post	Doctor is not able to login to the system.	
Condition:		

Alternate Flow 2 (AF2): To approve/sign off another entry after successfully approving one

Assumptions: Doctor is already logged into the system.

System Actor Action		System Response	
1.	Doctor click ok to acknowledge the system message that entry is signed off.	2. System will provide option to the user whether to sign off another entry.	
3.	Doctor select to approve more entry option.	4. System will again take the user to inbox to show available entries for sign off.	
Po	Post Condition: Doctor is redirected to inbox for pending approval requests.		

Business Rules:

For each customer/patient, the records being fed into the home aid services system by a data entry operator, it needs to be approved by the designated

doctor. Once it is approved/signed off by a Doctor, then only it will be visible to all authorized users in the system.

Implementation Constraint:

For each data entry for customer/patient how to mandate the designated Doctor to approve/sign off the entry as per the service level agreement.

Open Issues:

How many reminders for approval to be sent to Doctors?

If Doctors are not approving the requests on time to whom it should be escalated?

Brief Description:

The purpose of this Use case is that once the data entry is done for a customer/patient. Then the designated doctor need to verify the entered details and sign it off, so that data is published into the system and all those users who are authorized to access this information can see the data online. But, if the system finds any discrepancy within the records fed into the system based on validations put into the system. Then these entries are put into the rejection inbox of Doctor and they have option to reject it and send it back to data entry operator for correction. If not rejected doctors can approve it as per Use case 2.

Business Trigger:	Customer/Patient want to see their related details from their account.
Technical Trigger:	Data entry saved into the system and it comes to Doctor's inbox for approval.
Primary Actors:	Doctors with authority of signing off data entries, to publish.
Secondary Actors:	Data entry operator can check whether their request was signed off or rejected.
Preconditions:	Data entry is done by the data entry operator.
Dependencies:	This use case depends on the activity of data feeding into the system and an approval request has come into Doctor's inbox. So, if data entry and approval request is not generated, this use case will fail.

Basic Flow: Reject data entry after successful login.			
Assumptions: Doctor has all required access to the system.			
System Actor Action	System Response		
1. Doctor will open the Home aid	2. To check the authenticity and		
services portal.	authorization system will		
	present the login screen.		
3. Doctor will login into the system.	4. System will validate the		
	credentials and user will be		

		presented with the authorized menu list.	
5.	Doctor will select sign off patient's record menu.	6. System will present the screen to search/select patient record	
		that need approval.	
7.	Doctor will select the patient record that needs to be signed off or rejected.	8. System will show the patient record details and highlight records that system thinks, should be rejected.	
9.	Doctor will select the reject button after review, if he/she finds any issue with the record.	10. System will save the response and acknowledge that entry has been rejected and it will send the request back to data entry operator.	
Doctor will then click ok to acknowledge the system message and logout from the system.		12. System will close the session for that user.	
Po	Post Condition: Doctor is logged out of the system.		

Alternate Flow 1 (AF1): Login failed		
Assumptions: Doctor does not have required access to the system.		
System Actor Action	System Response	

1. Doctor will ope	en the Home aid	2.	To check the authenticity and
services portal.			authorization system will
			present the login screen.
3. Doctor will log	in into the system.	4.	System will validate the
			credentials and user will be
			presented with a screen saying
			you are not authorized to use
			this system.
Post	Post Doctor is not able to login to the system.		
Condition:			
Alternate Flow 2 (AF2): To reject another entry after successfully rejecting one			
Assumptions: Doctor is already logged into the system.			
System Actor Action		Sy	stem Response
1. Doctor click ok	to acknowledge the	2.	System will provide option to
system message that entry is rejected.			the user whether to reject
			another entry.
3. Doctor will select reject more entry		4.	System will again take the user
option.			to inbox to show available
			entries for rejection.
Post Condition: Doctor is redirected to inbox for pending requests.			

Business Rules:

For each customer/patient, the records being fed into the home aid services system by a data entry operator, must be correct by all means. So, there will be pre-defined logic in the system to validate the input. Apart from there will be more logic that would highlight requests in Doctor's queue to get his/her attention if the request need to be rejected.

Implementation Constraint:

For each data entry for customer/patient how to mandate the designated Doctor to approve/sign off the entry as per the service level agreement.

Open Issues:

What are the parameters that needs to be validated for each data entry, to identify whether the records needs doctor attention for rejecting it?

How many reminders for approval to be sent to Doctors?

If Doctors are not approving the requests on time to whom it should be escalated?