NewCo-Med – Use Cases

Table of Contents

1 Actors 1
2 Use Cases 2
2.1 System Context Use Case 2
2.2 Use Case Hierarchy 3
2.3 Use Case Catalog 4
2.3.1 Scan Chart 4
2.3.2 Manage Coders Workload 5
2.3.3 Code Chart 6
2.3.4 Select Charts for Audit 7
2.3.5 Audit Coded Chart 8
2.3.6 Run Medical Reports 9
2.3.7 Use Case Title 10
3 Domain Objects 11

---

1 Actors

Actor Title	Description
Scanner	This role is performed at the Medical Facility, possibly by an unskilled ("entry level") worker.
Administrator	?Who does this role work for? ?What skill level/skills are required?
Coder	This role is performed by a remote worker, likely a home worker, through their home broadband connection with a PC and web interface.
Auditor	??Is this role filled by an effectively, more senior and more trusted Coder??
Data Entry	This role is performed at the Medical Facility.
Hospital Administrator	This role is performed at the Medical Facility.

2 Use Cases

2.1 System Context Use Case

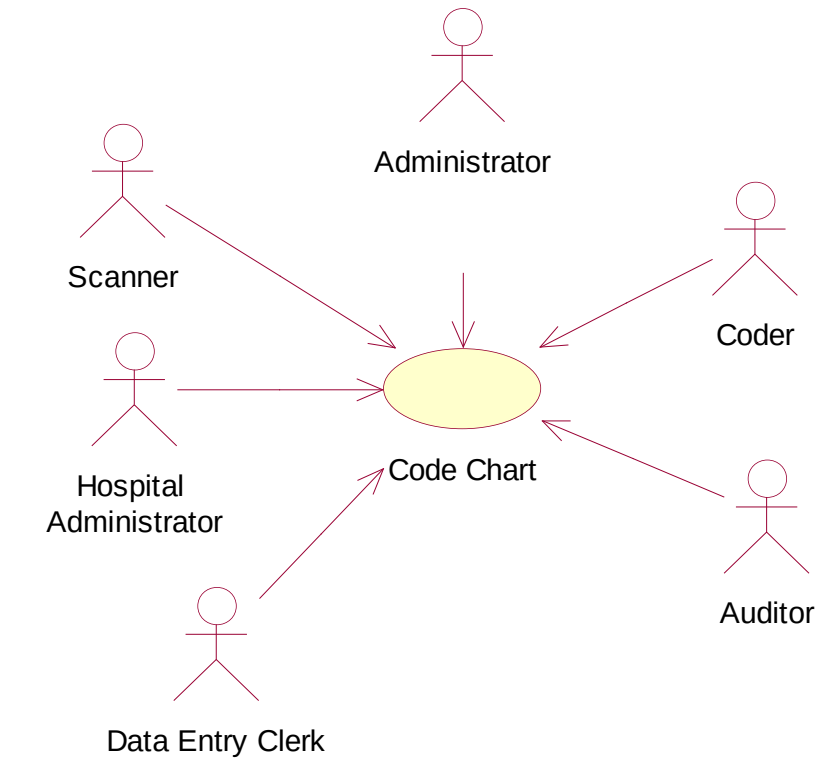

Figure 2-1: System Context Use Case – *Use Case Name*

Use Case Name:	Code Chart – System Context
Iteration:	Façade
Summary:	A **Medical Chart** from a Medical Facility is entered into the system and subsequently coded. The encoded information then becomes available to the Medical Facility in a **Summary**. Additionally the Medical Facility can generate **Reports** which can contain a consolidation of **Summaries**.
Basic Course of Events:	1. The *Scanner* electronically scans the **Medical Chart**. 2. The *Coder* codes the **Medical Chart**, creating the **Summary**. 3. The *Hospital Administrator* views the **Summary** containing the encoded data from the **Medical Chart**.
Alternative Paths:	

Exception Paths:	
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	See detailed Use Cases.
Author:	Eric Gustafson – Façade
Date:	October 11, 2005 — Façade

2.2 Use Case Hierarchy

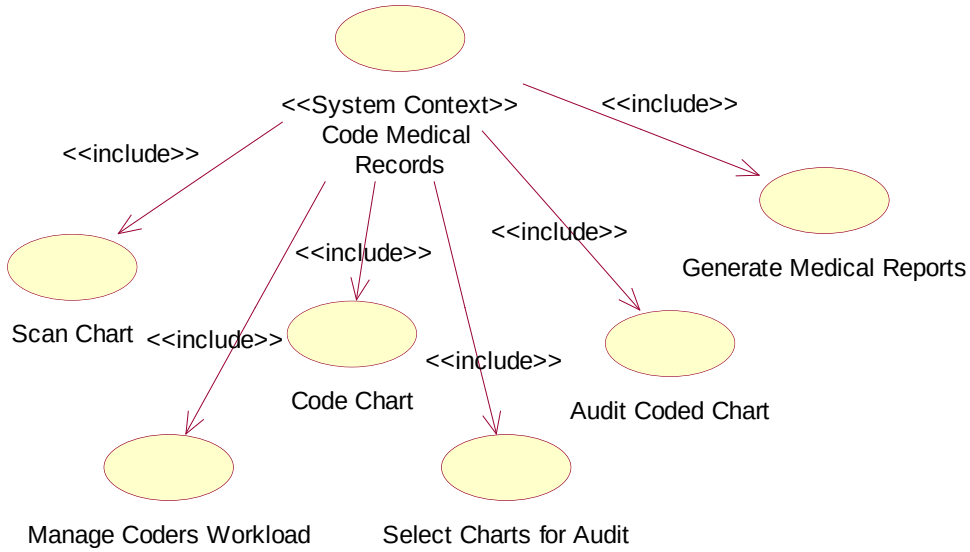

Figure 2-2: Use Case Hierarchy Diagram

2.3 Use Case Catalog

2.3.1 Scan Chart

Figure 2-3: *Use Case Diagram*

Use Case Name:	Scan Chart
Iteration:	Façade
Summary:	The *Scanner* selects the **Patient Information** and then scans in the paper copy of the **Medical Chart** for that patient.
Basic Course of Events:	1. Select or enter the **Patient Information** for the chart to be scanned. 2. Scan the chart.
Alternative Paths:	1. The *Coder* marks a **Medical Chart** as "pending" and it is returned to the *Scanner*. 2. The *Scanner* scans in the additional chart pages.
Exception Paths:	If the Medical Facility does not provide **Patient Information** electronically then the *Scanner* will manually enter the patient information.
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	0001, 0005
Author:	Eric Gustafson – Façade
Date:	October 11, 2005 — Façade

2.3.2 Manage Coders Workload

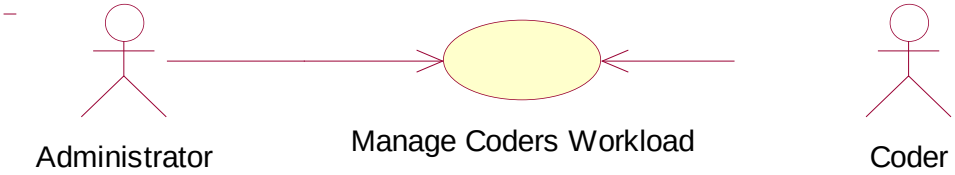

Figure 2-4: *Use Case Diagram*

Use Case Name:	Manage Coders Workload
Iteration:	Façade
Summary:	The *Administrator* will manage **Chart Assignment** to *Coders* such that chart coding is efficiently accomplished.
Basic Course of Events:	
Alternative Paths:	
Exception Paths:	
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	
Author:	Eric Gustafson – Façade
Date:	October 11, 2005 — Façade

2.3.3 Code Chart

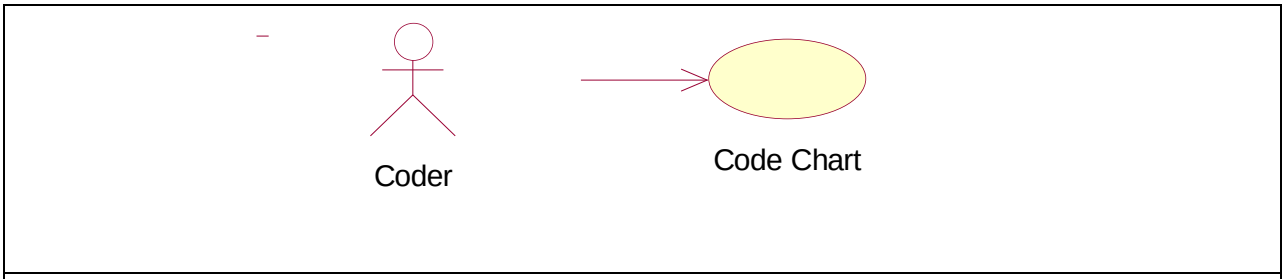

Figure 2-5: *Use Case Diagram*

Use Case Name:	Code Chart
Iteration:	Façade
Summary:	The *Coder* receives a **Patient Information** and a single **Medical Chart** as a scanned image and medically codes the chart. The result of the coding is the **Summary Record**.
Basic Course of Events:	
Alternative Paths:	If a **Medical Chart** is incomplete, the *Coder* can mark the chart as "pending" which will alert the *Scanner* that more information is needed.
Exception Paths:	
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	0002, 0005
Author:	Eric Gustafson – Façade
Date:	October 11, 2005 — Façade

2.3.4 Select Charts for Audit

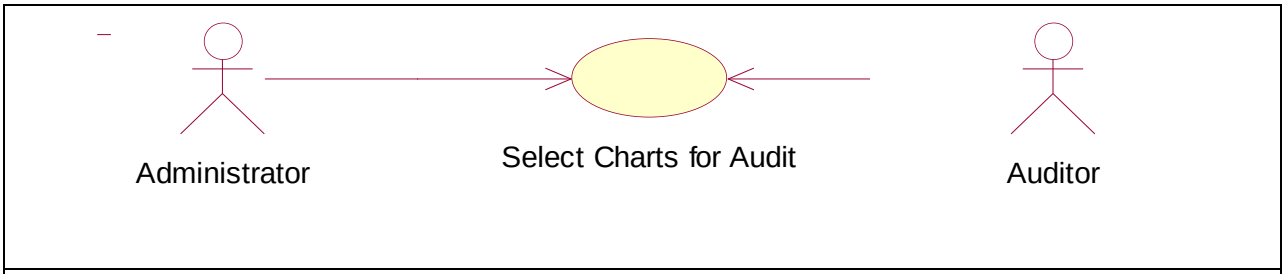

Figure 2-6: *Use Case Diagram*

Use Case Name:	Select Charts for Audit
Iteration:	Façade
Summary:	The *Administrator* selects **Summary Records** that should be audited and assigns them to an *Auditor*.
Basic Course of Events:	
Alternative Paths:	
Exception Paths:	
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	
Author:	Eric Gustafson – Façade
Date:	October 13, 2005 — Façade

2.3.5 Audit Coded Chart

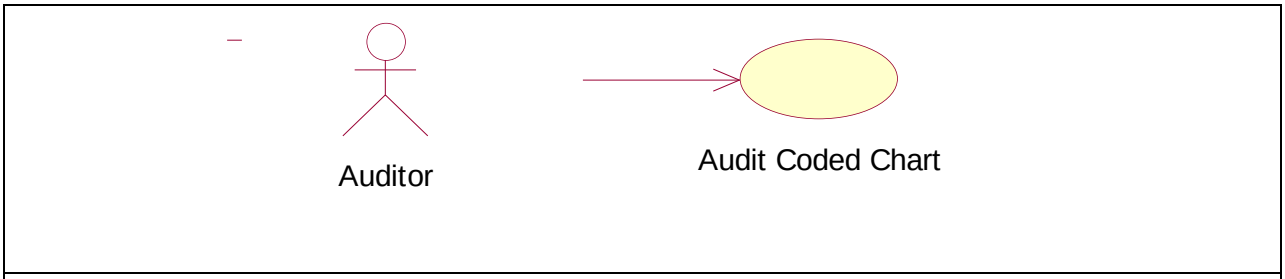

Figure 2-7: *Use Case Diagram*

Use Case Name:	Audit Coded Chart
Iteration:	Façade
Summary:	The *Auditor* takes a **Summary Record** and its associated **Medical Chart** and **Patient Information** and reviews the **Summary Record** for accuracy. **Summary Records** that fail the audit are retained and the *Auditor* creates a new **Summary Record** for the **Medical Chart**.
Basic Course of Events:	[If summary record passes the audit then it is marked as audited, but otherwise unaltered.]
Alternative Paths:	
Exception Paths:	
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	0003
Author:	Eric Gustafson – Façade
Date:	October 11, 2005 — Façade

2.3.6 Generate Medical Reports

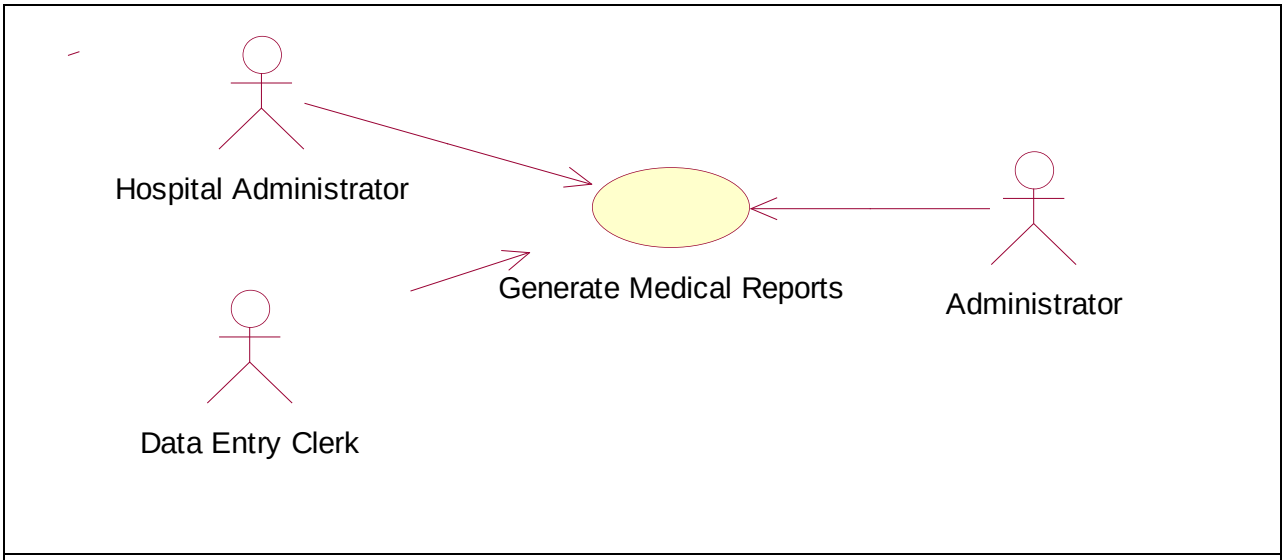

Figure 2-8: *Use Case Diagram*

Use Case Name:	Generate Medical Reports
Iteration:	Façade
Summary:	The *Hospital Administrator*, *Administrator*, and *Data Entry Clerk* can request **Reports** be generated.
Basic Course of Events:	
Alternative Paths:	
Exception Paths:	
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	0004
Author:	Eric Gustafson – Façade
Date:	October 11, 2005 — Façade

2.3.7 Use Case Title

[Link Figure Here]
Figure 2-9: *Use Case Diagram*

Use Case Name:	*Template Use Case*
Iteration:	Façade
Summary:	
Basic Course of Events:	
Alternative Paths:	
Exception Paths:	
Trigger:	
Assumptions:	
Preconditions:	
Post Conditions:	
Related Business Rules:	
Author:	
Date:	January 1, 2000 — Façade

3 Domain Objects

The following is a catalog of domain objects. This really belongs in another document, but I'm going to keep it here for now. Domain Objects should be identified in the Use Case descriptions as capitalized and bolded terms.

- Patient Information Record
- Medical Chart (Encounter) Record
- Summary Record
- Audit Trail Record
- Report
- Chart Assignment