

jUCMNav Report



<http://softwareengineering.ca/jucmnav>

Title:	aems
URN Model Name:	AEMS-example
Description:	Description of the process and goals related to the Adverse Event Management System (AEMS)
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UCM Scenario Groups documentation

- Scenarios:

1. 1-NoEvent: No event for this patient during this visit.
2. 2-OneEventNormal: One event observed, completed and scored before post-rating.
3. 3-NotReadyButComplete: One even observed but requires two updates before being ready for review.
4. 4-ReadyButIncomplete: One even observed but considered incomplete by the reviewer.
5. 5-TwoEventsNormal: Two events observed for this patient during the visit.
6. 6-TwoEventsNotReadyButComplete: Two events observed for this patient, but the first one requires two updates before being ready for review.
7. 7-TwoEventsReadyButIncomplete: Two events observed for this patient, but the first one is considered incomplete by the reviewer.

Variables

1. EventReady (boolean): True iff the Observer has collected all the necessary information on the event. Events may span multiple days for a patient...
2. EventComplete (boolean): True iff the Reviewer has all the information required to score the event.
3. NumEvents (integer): Scenario input that defines the number of events for this patient during this visit.
4. EventsCreated (integer): Counts the number of events created so far for this patient.
5. ExistingEvent (boolean): True iff the existing event needs to be updated.
6. Discharged (boolean): True iff the patient was discharged after his visit.

Intentional Elements

1. High Data Quality
2. Fast Process
3. High Accuracy
4. High Completeness
5. Low Data Duplication
6. Comply with Privacy Laws
7. Good Research
8. Make Appropriate Decisions
9. Number of default dates or time
10. Number of records duplicated
11. Completeness index
12. Number of events with patient information
13. Number of incomplete events
14. Number of incomplete reviews
15. Number of events returned to Observers
16. Number of late reviews
17. Number of late post-ratings
18. Late activity index
19. Average review duration
20. Average post-rating duration
21. Average event documentation duration
22. Number of incomplete post-ratings

- 23. Number of events
- 24. One Hundred

Actors

- 1. Data Quality Steward
- 2. Privacy Officer
- 3. Facilitator
- 4. Management
- 5. Researcher

Strategy Legend for Group "AsIs"

1:AsIsAnalysis-Summer2010

Note: Trend calculated based on last 3 strategies

	Strategy Evaluations
	1
Data Quality Steward (A)	-57
Privacy Officer (A)	- 100
Facilitator (A)	18
Management (A)	-71
Researcher (A)	-71
High Data Quality	-71
Fast Process	18
High Accuracy	-50
High Completeness	-71
Low Data Duplication	-25
Comply with Privacy Laws	- 100
Good Research	-71
Make Appropriate	-71

	Strategy Evaluations
Decisions	
Number of default dates or time	-50
Number of records duplicated	-25
Completeness index	-71
Number of events with patient information	-100
Number of incomplete events	0
Number of incomplete reviews	-66
Number of events returned to Observers	50
Number of late reviews	-40
Number of late post-ratings	20
Late activity	-46

	Strategy Evaluations
index	
Average review duration	50
Average post-rating duration	66
Average event documentation duration	66
Number of incomplete post-ratings	-33
Number of events	100
One Hundred	100

Process

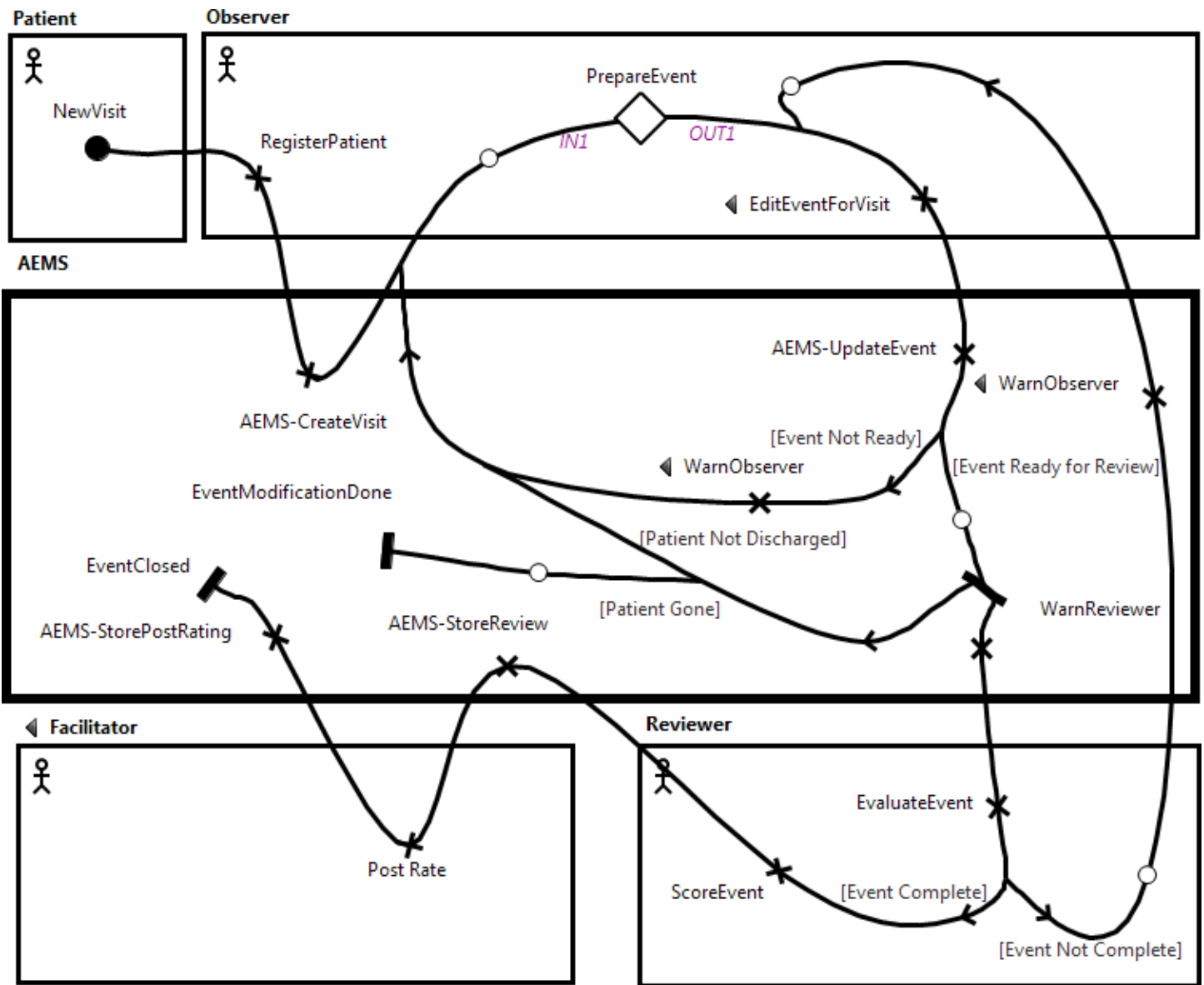


Figure 1 - Process

Description

Overall view of the surveillance process.

Component URN Links

Facilitator <== (Actor) Facilitator

Responsibilities

RegisterPatient

Expression

// Initialization

EventsCreated = 0;

ExistingEvent = false;

Discharged = false;

AEMS-CreateVisit

EditEventForVisit

Expression: ExistingEvent = false;

URN Link: Number of events with patient information(Indicator)

EvaluateEvent

ScoreEvent

AEMS-StoreReview

Post Rate

AEMS-UpdateEvent

WarnReviewer

WarnObserver

Expression

// Indicates that the event description needs an update

ExistingEvent = true;

// For scenarios:

// To make sure the event next event is ready and complete

EventComplete = true;

EventReady = true;

URN Link: Number of events returned to Observers(Indicator)

WarnObserver

Expression

// Indicates that the event description needs an update

ExistingEvent = true;

// For scenarios:

// To make sure the event next event is ready and complete

EventComplete = true;

EventReady = true;

URN Link: Number of events returned to Observers(Indicator)

AEMS-StorePostRating

Stubs

Static Stub - PrepareEvent

Plugin Map - PrepareEvent

Input Bindings:

IN 1 <-> Prepare

Output Bindings:

OUT 1 <-> Continue

Precondition:

Expression: true

Transaction: false

Probability: 1.0

Or Fork Description

[Event Ready for Review] ==> EventReady (probability: 1.0)

[Event Not Ready] ==> !EventReady (probability: 1.0)

[Event Complete] ==> EventComplete (probability: 1.0)

[Event Not Complete] ==> !EventComplete (probability: 1.0)

[Patient Not Discharged] ==> !Discharged (probability: 1.0)

[Patient Gone] ==> Discharged (probability: 1.0)

[Patient Gone] ==> else (probability: 1.0)

[Existing Event] ==> else (probability: 1.0)

[New Event] ==> (EventsCreated < NumEvents) && !ExistingEvent (probability: 1.0)

Scenario Documentation

Scenario Execution Summary

Group Scenarios (ID:6)

Scenario	Result	Message(s)
1-NoEvent (ID: 7)	PASSED	
2-OneEventNormal (ID: 776)	PASSED	
3-NotReadyButComplete (ID: 777)	PASSED	
4-ReadyButIncomplete (ID: 778)	PASSED	
5-TwoEventsNormal (ID: 779)	PASSED	
6-TwoEventsNotReadyButComplete (ID: 817)	PASSED	
7-TwoEventsReadyButIncomplete (ID: 818)	PASSED	

Scenario Information

Group Scenarios (ID: 6)

Scenario 1-NoEvent (ID: 7)

Scenario Start Point(s):

NewVisit (ID: 54)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
NumEvents	717	Scenario input that defines the number of events for this patient during this visit.	integer	0

Scenario 2-OneEventNormal (ID: 776)

Scenario Start Point(s):

NewVisit (ID: 54)

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
NumEvents	717	Scenario input that defines the number of events for this patient during this visit.	integer	1
EventReady	363	True iff the Observer has collected all the necessary information on the event. Events may span multiple days for a patient...	boolean	true
EventComplete	376	True iff the Reviewer has all the information required to score the event.	boolean	true

Scenario 3-NotReadyButComplete (ID: 777)

Included UCM Scenario(s):

Scenario 2-OneEventNormal (ID: 776): One event observed, completed and scored before post-rating.

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
EventReady	363	True iff the Observer has collected all the necessary information on the event. Events may span multiple days for a patient...	boolean	false

Scenario 4-ReadyButIncomplete (ID: 778)

Included UCM Scenario(s):

Scenario 2-OneEventNormal (ID: 776): One event observed, completed and scored before post-rating.

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
EventComplete	376	True iff the Reviewer has all the information required to score the event.	boolean	false

Scenario 5-TwoEventsNormal (ID: 779)

Included UCM Scenario(s):

Scenario 2-OneEventNormal (ID: 776): One event observed, completed and scored before post-rating.

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
NumEvents	717	Scenario input that defines the number of events for this patient during this visit.	integer	2

Scenario 6-TwoEventsNotReadyButComplete (ID: 817)

Included UCM Scenario(s):

Scenario 2-OneEventNormal (ID: 776): One event observed, completed and scored before post-rating.

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
EventReady	363	True iff the Observer has collected all the necessary information on the event. Events may span multiple days for a patient...	boolean	false
NumEvents	717	Scenario input that defines the number of events for this patient during this visit.	integer	2

Scenario 7-TwoEventsReadyButIncomplete (ID: 818)

Included UCM Scenario(s):

Scenario 2-OneEventNormal (ID: 776): One event observed, completed and scored before post-rating.

Initialization(s):

Variable Name	ID	Description	Type	Initial Value
NumEvents	717	Scenario input that defines the number of events for this patient during this visit.	integer	2
EventComplete	376	True iff the Reviewer has all the information required to score the event.	boolean	false