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Model Documentation

# Model Detail

This document provides a complete overview of all element details. For simpler and more focused reports, simply copy this initial template and turn off the sections not required.

## Use Cases

Type: Package

Status: Proposed. Version 1.0. Phase 1.0.

Package: eAAPS

Detail: *Created on 8/19/2013*. *Last modified on 8/19/2013*

GUID: {B61619C2-1359-4701-B1F9-D11E7A98AAC2}

**Use Cases** - *(Use Case diagram)*

Created By: Nick *on* 8/19/2013

Last Modified: 8/20/2013

Version: 1.0. *Locked:* False

GUID: {803FA174-201D-4def-BE28-7E7521502AFE}



Figure: 1

### Patient

Type: **Actor**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {8CCAC377-4D15-4ab0-A529-605ABE75D989}

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  Patient | Public  EAAPS-UC-07 Receive Action Plan |  |
| Association  Unspecified | Public  Patient | Public  EAAPS-UC-04 Fill Out Questionnaire |  |
| Information Flow  Source -> Destination | Public  Provider | Public  Patient |  |

### Provider

Type: **Actor**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {525722E2-2346-4787-8D21-355561709C52}

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  Provider | Public  EAAPS-UC-08 Review Action Plan |  |
| Generalization  Source -> Destination | Public  Provider | Public  User |  |
| Information Flow  Source -> Destination | Public  Provider | Public  eAAPS |  |
| Dependency  Source -> Destination | Public  Provider | Public  eAAPS Encounter |  |
| Information Flow  Source -> Destination | Public  Provider | Public  Patient |  |
| Association  Unspecified | Public  Provider | Public  eAAPS |  |

### User

Type: **Actor**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {E8B624CE-4A3A-4586-BA57-6ACEBCE62123}

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  User | Public  EAAPS-UC-07 Receive Action Plan |  |
| Association  Unspecified | Public  User | Public  EAAPS-UC-03 Enroll in study |  |
| Association  Unspecified | Public  User | Public  EAAPS-UC-11 Remove From Study |  |
| Generalization  Source -> Destination | Public  Provider | Public  User |  |
| Association  Unspecified | Public  User | Public  EAAPS-UC-01 Export Medications |  |

### eAAPS

Type: **Actor**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {E9820C44-7615-41ea-860D-F21EC691BC30}

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-05 Provide Questionnaire |  |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-06 Create Action Plan |  |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-09 Provide Action Plan |  |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-10 Notify Provider |  |
| Association  Unspecified | Public  eAAPS | Public  eAAPS |  |

### EAAPS-UC-01 Export Medications

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {A6CA4826-43C5-42e5-9D4A-D1C1E7886EAB}

Preconditions

1. eAAPS study is created on the system

2. eAAPS study is populated with the required patients

3. Demographic records are created on the system

4. eAAPS export settings are configured

Normal Flow

1. Provider selects the study to be exported

2. System exports all demographic records available in the study

3. System notifies the administrator about the successful export

Postconditions

1. Medication information is exported to the eAAPS server

2. All demographic records from the study contain a data entry with a hash code to uniquely identify the patient without disclosing sensitive demographic information (name, HIN, etc)

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Dependency  Source -> Destination | Public  EAAPS-UC-01 Export Medications | Public  EAAPS-UC-02 Generate hash |  |
| Association  Unspecified | Public  User | Public  EAAPS-UC-01 Export Medications |  |

### EAAPS-UC-02 Generate hash

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {F5A59774-E9DE-4978-A67E-7212CBD45113}

Preconditions

1. Demographic records are created on the system

Normal Flow

1. Demographic record is selected for hash generation

2. System generates hash code based on the demographic information to uniquely identify the patient without disclosing sensitive data

Postconditions

1. Hash code for the specified demographic record is available for use

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Dependency  Source -> Destination | Public  EAAPS-UC-01 Export Medications | Public  EAAPS-UC-02 Generate hash |  |

### EAAPS-UC-03 Enroll in study

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {8758EAE3-982D-4835-A7B0-D6832C5DE55F}

Preconditions

1. eAAPS study is created on the system

2. Demographic records are created on the system

Normal Flow

1. Provider selects demographic records to be exported

2. System registers the selected records with the study

Postconditions

1. The study contains the selected demographic records

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  User | Public  EAAPS-UC-03 Enroll in study |  |

### EAAPS-UC-04 Fill Out Questionnaire

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {5F948098-7372-4d2f-BEE1-3E5C5E72CB13}

Preconditions

1. Patient information (hash and medications) has been entered into eAAPS

2. Patient receives a remove access to the eAAPS

Normal Flow

1. Patient self-identifies by providing his or her name and DOB

2. System finds patient record

2a. System prepares questionnaire (UC-05)

3. System displays numerous questions related to asthma control procedures that the patient takes

4. Patient completes the questionnaire by providing appropriate responses

5. System saves the responses and notifies the patient

Postconditions

1. Questionnaire is filled out

2. Patient is identified

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Dependency  Source -> Destination | Public  EAAPS-UC-04 Fill Out Questionnaire | Public  EAAPS-UC-06 Create Action Plan |  |
| Association  Unspecified | Public  Patient | Public  EAAPS-UC-04 Fill Out Questionnaire |  |
| Include  Source -> Destination | Public  EAAPS-UC-04 Fill Out Questionnaire | Public  EAAPS-UC-05 Provide Questionnaire |  |

### EAAPS-UC-05 Provide Questionnaire

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {36350775-9921-4cc4-9B59-338E36BB65D0}

Preconditions

1. None

Normal Flow

1. System generates the questionnaire based on provided information

Postconditions

1. Questionnaire is prepared

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-05 Provide Questionnaire |  |
| Include  Source -> Destination | Public  EAAPS-UC-04 Fill Out Questionnaire | Public  EAAPS-UC-05 Provide Questionnaire |  |

### EAAPS-UC-06 Create Action Plan

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {BBA132E4-7C82-42f1-A269-4774D4FE44C8}

Preconditions

1. Patient questionnaire is filled out

2. Action plan is reviewed by patient's physician

Normal Flow

1. System builds the asthma action plan recommendations based on the advanced medical heuristics and user input.

Postconditions

1. Patient action plan is ready

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Dependency  Source -> Destination | Public  EAAPS-UC-04 Fill Out Questionnaire | Public  EAAPS-UC-06 Create Action Plan |  |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-06 Create Action Plan |  |
| Dependency  Source -> Destination | Public  EAAPS-UC-06 Create Action Plan | Public  EAAPS-UC-08 Review Action Plan |  |

### EAAPS-UC-07 Receive Action Plan

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {0C1F7D59-FD3D-47b1-A9F9-BB1FEF9487DA}

Preconditions

1. Action plan has been provided by eAAPS (UC-09)

Normal Flow

1. User accesses the action plan in the system

2. User can print or forward action plan electronically to the patient

Postconditions

1. Patient receives the action plan

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  Patient | Public  EAAPS-UC-07 Receive Action Plan |  |
| Association  Unspecified | Public  User | Public  EAAPS-UC-07 Receive Action Plan |  |

### EAAPS-UC-08 Review Action Plan

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {1C3F1B2A-A919-4e6f-863C-FA4FF43F266A}

Preconditions

1. User is notified of the action plan change

Normal Flow

1. User is redirected to eAAPS system, where he or she can approve or reject the action plan

Postconditions

1. Action plan is approved or rejected by the user

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  Provider | Public  EAAPS-UC-08 Review Action Plan |  |
| Dependency  Source -> Destination | Public  EAAPS-UC-10 Notify Provider | Public  EAAPS-UC-08 Review Action Plan |  |
| Dependency  Source -> Destination | Public  EAAPS-UC-06 Create Action Plan | Public  EAAPS-UC-08 Review Action Plan |  |

### EAAPS-UC-09 Provide Action Plan

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {E21F1925-580C-4845-83A5-F13E52DADE0F}

Preconditions

1. Patient action plan is ready

2. Patient action plan has been approved by system user

Normal Flow

1. eAAPS generates a message containing the action plan, case management note, most responsible physician recommendations, or any combination of these

2. eAAPS sends this message to OSCAR

3. OSCAR receives the message and processes it appropriately

Postconditions

1. Message containing action plan is delivered to OSCAR

2. Message content is available in OSCAR

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-09 Provide Action Plan |  |

### EAAPS-UC-10 Notify Provider

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/19/2013*. *Last modified on 8/19/2013*.

GUID: {7BDBEF3A-69CF-4f75-9106-8BFCBE484FFD}

Preconditions

1. Action plan has been created or there was any change to an existing action plan

Normal Flow

1. User reviews patient information

2. System displays details about action plan change with an option to dismiss further notifications

Postconditions

1. User is notified of the change to the action plan

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  eAAPS | Public  EAAPS-UC-10 Notify Provider |  |
| Dependency  Source -> Destination | Public  EAAPS-UC-10 Notify Provider | Public  EAAPS-UC-08 Review Action Plan |  |

### EAAPS-UC-11 Remove From Study

Type: **UseCase**

Status: Proposed. Version 1.0. Phase 1.0.

Package: Use Cases Keywords:

Detail: *Created on* *8/20/2013*. *Last modified on 8/20/2013*.

GUID: {F9DD2A9F-4065-46a5-92E7-39E9551EA1CC}

Preconditions

1. eAAPS study is created on the system

2. Demographic records are created on the system

3. Demographic records have been exported (have the appropriate entries in study\_data table)

Normal Flow

1. Provider selects demographic records to be removed

2. System removes the selected records from the study

Postconditions

1. The study should not contain the selected demographic records

2. Study\_data table should not contain the hash for selected records

*Connections*

| **Connector** | **Source** | **Target** | **Notes** |
| --- | --- | --- | --- |
| Association  Unspecified | Public  User | Public  EAAPS-UC-11 Remove From Study |  |