**Actors Prompt:**

An engineer is working on a set of user stories enclosed between triple back ticks.

``` As a collection curator, I want to map an item or items from one collection to another, so that an item may administratively belong to one collection but could appear in other collections.

As a collection curator, I want to have a summary of all remote replication status at collection level on my dashboard.

As a collection curator, I want to have my collection be encrypted with a key maintained on that server, a checksum made and stored of the encrypted file, and the encrypted file replicated to our remote storage site.

As a collection curator, I want to lift an embargo for an object in a simple way.

As a collection curator, I want to create deposit forms specific to the collection.

As a collection curator, I want to allow some collections the option of setting an embargo date at deposit.

```

He created an initial goal model with the intentional elements enclosed between triple quotes:

‘’’

- 'Actors':

-collection curator

-faculty member

-repository manager

- 'Goals':

-have operations conducted

-allow operations conducted

-create operations conducted

-lift operations conducted

-map operations conducted

-elect operations conducted

-specify operations conducted

-add operations conducted

-have the repository queue

-have a key

-have a summary

-some collections allowed

-create deposit forms

-lift an embargo

-map an item

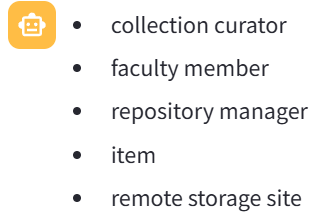
-elect the primary remote site

-specify the remote replication policy

-a date delimiter added

'''

The created model is missing many intentional elements. Let us refine the goal model step by step. First, can you list all 'Actors' for the user stories enclosed between triple back ticks. An initial set of actors are added in the enclosed between triple quotes. You must also identify any missing and implicit actors. It is critical that you answer only as a bulleted list and do not include any explanation.



**Goals**

The initial goal model does not contain all the stakeholder’s objectives or goals that are conveyed in the user stories enclosed between triple back ticks. Identify any goals explicitly mentioned in the user stories enclosed between triple back ticks as well as any implicit goals. It is critical that you answer only as a bulleted list and do not include any explanation.

* map an item from one collection to another
* have a summary of all remote replication status at collection level on the dashboard
* have collection encrypted with a key maintained on the server, a checksum made and stored of the encrypted file, and the encrypted file replicated to the remote storage site
* lift an embargo for an object in a simple way
* create deposit forms specific to the collection
* allow some collections the option of setting an embargo date at deposit

**Tasks for Goals**

Please provide a detailed breakdown of tasks for each of the following goals, created in the previous response. It is critical that you answer only as a bulleted list that adheres to the following format.

<a goal>: <a hyphenated list of tasks to achieve the goal>

Do not include any explanation.

* map an item from one collection to another:
  + identify source collection
  + select item(s) to be mapped
  + specify target collection
  + establish mapping relationship
* have a summary of all remote replication status at collection level on the dashboard:
  + retrieve replication status for each item in the collection
  + aggregate replication statuses
  + display summary on the dashboard
* have collection encrypted with a key maintained on the server, a checksum made and stored of the encrypted file, and the encrypted file replicated to the remote storage site:
  + encrypt collection with server-maintained key
  + generate checksum for each encrypted file
  + store checksum information
  + replicate encrypted collection to remote storage site
* lift an embargo for an object in a simple way:
  + identify embargoed object
  + verify user permissions to lift embargo
  + lift embargo from the object
* create deposit forms specific to the collection:
  + define required fields for deposit form
  + design deposit form layout
  + implement functionality to save form data
* allow some collections the option of setting an embargo date at deposit:
  + configure system to enable embargo setting during deposit
  + validate embargo date input
  + associate embargo date with deposited collection

**Soft Goals**

Next, there are no soft goals in the initial goal model. Please suggest soft goals. Note you must identify any soft goals explicitly mentioned in the user stories enclosed between triple back ticks as well as any implicit soft goals. It is critical that you answer only as a bulleted list and do not include any explanation.

* Ensure data security during encryption and replication
* Enhance user experience for embargo lifting process
* Improve system efficiency for deposit form creation
* Facilitate flexible embargo date setting for collections

**Tasks for Soft Goals**

Next, the initial goal model misses different tasks that can be undertaken to achieve goals and soft goals.

Please provide a detailed breakdown of tasks for each soft goal created in the previous response. You can generate a variable number of tasks for soft goals. It is critical that you answer only as a bulleted list that adheres to the following format.

<a soft goal>: <list of tasks to achieve the soft goal>

Do not include any explanation.

* Ensure data security during encryption and replication:
  + Implement encryption using strong algorithms
  + Secure key management for encryption
  + Implement secure replication protocols
  + Regularly audit encryption and replication processes
* Enhance user experience for embargo lifting process:
  + Design intuitive user interface for embargo lifting
  + Provide clear instructions for embargo lifting
  + Implement quick embargo lifting functionality
  + Provide feedback to users after embargo is lifted
* Improve system efficiency for deposit form creation:
  + Develop customizable deposit form templates
  + Implement auto-fill features for common fields
  + Allow for easy editing and updating of deposit forms
  + Ensure compatibility with various file formats for form submission
* Facilitate flexible embargo date setting for collections:
  + Implement user-friendly interface for setting embargo dates
  + Provide options for different embargo duration choices
  + Allow for modification of embargo dates post-deposit
  + Send reminders for impending embargo expirations

**Contribution Links**

The Contributionrelationship statement describes how softgoals, task, believes, or links contribute to the satisficing of another intentional element. The five categories of Contribution Links are enclosed between triple back-ticks symbols.

``` MAKE : The contribution of the contributing element is positive and sufficient. BREAK : The contribution of the contributing element is negative and sufficient. HELP : The contribution of the contributing element is positive but not sufficient. HURT : The contribution of the contributing element is negative but not sufficient. EQUAL : There is equal contribution in both directions. ```

Please suggest different contribution links to link all the intentional elements such as, goals, soft goals, Tasks, and Resources that you identified. Note you must identify any contributions links that explicitly mentioned in the user stories enclosed between triple back ticks as well as any hidden contribution links. It is critical that you answer only as a bulleted list that adheres to the following format.

<Contribution Link Category>::<Source intentional elements> : <Destination intentional elements>

* MAKE::encrypt collection with server-maintained key : ensure data security during encryption and replication
* HELP::design intuitive user interface for embargo lifting : enhance user experience for embargo lifting process
* MAKE::develop customizable deposit form templates : improve system efficiency for deposit form creation
* HELP::implement user-friendly interface for setting embargo dates : facilitate flexible embargo date setting for collections

**Dependencies Links**

The Dependency statement of GRL describes an intentional relationship between two actors, i.e., one actor (the Depender) depends on another actor (the Dependee) on something (the Dependum). Noite that the dependum is optional.

Please suggest different Dependency links to link all the intentional elements such as, goals, soft goals, Tasks, and Resources that you identified. Note you must identify any Dependency links that explicitly mentioned in the user stories enclosed between triple back ticks as well as any hidden Dependency links. It is critical that you answer only as a bulleted list that adheres to the following format.

<Depender> DEPENDES-ON <Dependee> FOR <Dependum>

* encrypt collection with server-maintained key DEPENDS-ON remote storage site FOR secure replication
* create deposit forms DEPENDS-ON specific collection FOR customizable form templates
* lift an embargo DEPENDS-ON user permissions FOR embargo lifting process

**Resources**

**Not used because Dependum identified in the previous prompt are the resources.**

A resource is an (physical or informational) entity, with which the main concern is whether it is available. The initial goal model with the intentional elements enclosed between triple quotes does not have resources. Identify resources that are explicitly mentioned in the user stories enclosed between triple back ticks as well as any implicit resources. It is critical that you answer only as a bulleted list and do not include any explanation.



**Decomposition Links**

DECOMPOSITON statement provides the ability to define what other elements need to be achieved or available in order for a task to perform. Note that only Task and Goal can be decomposed into goal, task, resource, and softgoal. A Task Decomposition Structure shows the essential components of a task, which include subtasks that must be performed, subgoals that must be achieved, resources that must be accessible, and softgoals that must be satisfied. Similarly, a Goal Decomposition Structure connects a goal with its sub-goals directly, which is a short hand form of one Goal Means\_Ends Structure and the related Task Decomposition Structure.  The three categories of Decomposition Links are enclosed between triple back-tick symbols.

``` AND DECOMPOSITON: The relations between the dependent elements are “AND”. Each of the sub-components are necessary. OR DECOMPOSITON : The relations between the contributing elements are “OR”. Any of the sub-components is sufficient. XOR DECOMPOSITON: The relations between the contributing elements are “XOR”. Either of the sub-components are necessary, but not both. ```

Please suggest different Decomposition links to link all the intentional elements such as, goals, soft goals, Tasks, and Resources that you identified. Note you must identify any Decomposition links that explicitly mentioned in the user stories enclosed between triple back ticks as well as any hidden Decomposition links. It is critical that you answer only as a bulleted list that adheres to the following format.

< Decomposition Type>::<Source intentional elements> : <Destination intentional elements>

* AND DECOMPOSITION::have collection encrypted with a key maintained on the server : encrypt collection with server-maintained key AND generate checksum of the encrypted file AND replicate encrypted file to remote storage site
* OR DECOMPOSITION::allow some collections the option of setting an embargo date at deposit : provide options for embargo date setting at deposit OR skip embargo date setting
* XOR DECOMPOSITION::lift an embargo for an object in a simple way : verify user permissions XOR lift embargo from the object

**Generate XML using Fewshot examples:**

Please create an XML that includes all the outputs that you generated so far. An example of the right output is shown between triple back ticks.

```

<?xml version='1.0' encoding='ISO-8859-1'?>

<grl-catalog catalog-name="URNspec" description="" author="vaish">

<element-def>

<intentional-element id="72" name="Car objects" description="" type="Ressource" decompositiontype="And"/>

<intentional-element id="80" name="Easy to use" description="" type="Softgoal" decompositiontype="And"/>

<intentional-element id="82" name="Realistic simulation" description="" type="Softgoal" decompositiontype="And"/>

<intentional-element id="84" name="Simple design" description="" type="Softgoal" decompositiontype="And"/>

<intentional-element id="88" name="Generate cars" description="" type="Goal" decompositiontype="And"/>

<intentional-element id="96" name="Create new cars" description="" type="Task" decompositiontype="And"/>

<intentional-element id="98" name="Keep same cars" description="" type="Task" decompositiontype="And"/>

</element-def>

<link-def>

<contribution name="Contribution105" description="" srcid="96" destid="82" contributiontype="Unknown" quantitativeContribution="0" correlation="false"/>

<contribution name="Contribution106" description="" srcid="96" destid="84" contributiontype="Unknown" quantitativeContribution="0" correlation="false"/>

<decomposition name="Decomposition111" description="" srcid="96" destid="88"/>

<decomposition name="Decomposition114" description="" srcid="98" destid="88"/>

<dependency name="Dependency116" description="" dependerid="88" dependeeid="72"/>

</link-def>

<actor-def>

<actor id="11" name="Traffic Simulator" description=""/>

</actor-def>

<actor-IE-link-def>

<actorContIE actor="11" ie="72"/>

<actorContIE actor="11" ie="80"/>

<actorContIE actor="11" ie="82"/>

<actorContIE actor="11" ie="84"/>

<actorContIE actor="11" ie="88"/>

<actorContIE actor="11" ie="96"/>

<actorContIE actor="11" ie="98"/>

</actor-IE-link-def>

</grl-catalog>

```