**Actors Prompt:**

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

``` As an Archivist, I want to import Accessions data in CSV.

As an Archivist, I want to specify the Source for a Name Form of an Agent and add new Sources and edit existing Sources.

As an Archivist, I want to create and edit Agent records.

As an Archivist, I want to create and edit a Resource record.

As an Archivist, I want to associate a Subject record with a Resource description.

As an Archivist, I want to assign Location information to a Container.```

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

‘’’

- 'Actors':

-Archivist

- 'Goals':

-assign operations conducted

-associate operations conducted

-specify operations conducted

-create operations conducted

-import operations conducted

-assign Location information

-create a Resource record

-create Agent records

-import Accessions data

-associate a Subject record

-specify the Source

'''

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.

* Archivist

**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.

* Import Accessions data in CSV
* Specify the Source for a Name Form of an Agent and add new Sources and edit existing Sources
* Create and edit Agent records
* Create and edit a Resource record
* Associate a Subject record with a Resource description
* Assign Location information to a Container

**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.

* Import Accessions data in CSV:
  + Identify data format requirements
  + Develop CSV import functionality
  + Validate imported data
* Specify the Source for a Name Form of an Agent and add new Sources and edit existing Sources:
  + Define Source attributes
  + Implement Source creation functionality
  + Implement Source editing functionality
* Create and edit Agent records:
  + Design Agent record structure
  + Develop Agent creation feature
  + Implement Agent editing capability
* Create and edit a Resource record:
  + Outline Resource record fields
  + Create Resource record functionality
  + Incorporate Resource record editing option
* Associate a Subject record with a Resource description:
  + Define Subject record attributes
  + Establish association between Subject and Resource
  + Implement Subject record linkage feature
* Assign Location information to a Container:
  + Define Container location attributes
  + Develop Container location assignment feature
  + Implement Container location editing functionality

**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 import accuracy
* Enhance user experience in specifying Source for a Name Form of an Agent
* Improve efficiency in creating and editing Agent records
* Enhance system usability for creating and editing Resource records
* Optimize process for associating Subject records with Resource descriptions
* Ensure accurate assignment of Location information to Containers

**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 import accuracy:
  + Implement data validation checks during the import process
  + Provide error handling for incorrect data formats
  + Conduct data integrity checks post-import
  + Develop a data import log for tracking and auditing
* Enhance user experience in specifying Source for a Name Form of an Agent:
  + Design an intuitive user interface for entering Source information
  + Implement auto-fill or suggestion features for faster data entry
  + Include tooltips or help sections for clarifying Source attributes
  + Conduct user testing for feedback and improvements
* Improve efficiency in creating and editing Agent records:
  + Streamline Agent record creation workflow
  + Implement bulk editing capabilities for multiple Agent records
  + Integrate search functionalities for quick access to existing Agents
  + Provide customizable templates for common Agent types
* Enhance system usability for creating and editing Resource records:
  + Develop a user-friendly interface for Resource record creation
  + Include drag-and-drop features for uploading associated files
  + Implement version control for tracking changes in Resource records
  + Enhance metadata management for better organization
* Optimize process for associating Subject records with Resource descriptions:
  + Develop a clear linkage mechanism between Subject and Resource records
  + Provide suggestions for relevant Subject records based on content analysis
  + Implement filters for narrowing down Subject options
  + Enable automatic updates when Resource descriptions change
* Ensure accurate assignment of Location information to Containers:
  + Develop a standardized format for Location information entry
  + Implement validation checks for correct Location assignments
  + Provide visual representation of Container locations on a map
  + Integrate barcode or RFID scanning for efficient location tracking

**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::Create and edit Agent records : Enhance user experience in specifying Source for a Name Form of an Agent
* BREAK::Ensure data import accuracy : Enhance user experience in specifying Source for a Name Form of an Agent
* HELP::Ensure data import accuracy : Optimize process for associating Subject records with Resource descriptions
* HURT::Enhance system usability for creating and editing Resource records : Ensure accurate assignment of Location information to Containers
* EQUAL::Create and edit Agent records : Create and edit a Resource record

**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>

* Create and edit Agent records DEPENDS-ON Ensure data import accuracy
* Enhance user experience in specifying Source for a Name Form of an Agent DEPENDS-ON Create and edit Agent records
* Create and edit a Resource record DEPENDS-ON Ensure data import accuracy
* Associate a Subject record with a Resource description DEPENDS-ON Create and edit a Resource record
* Assign Location information to a Container DEPENDS-ON Create and edit a Resource record

**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::Create and edit Agent records : Specify the Source for a Name Form of an Agent
* OR DECOMPOSITION::Assign Location information to a Container : Create and edit a Resource record
* XOR DECOMPOSITION::Associate a Subject record with a Resource description : Create and edit a Resource record

**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>

```

The generated XML must adhere to the below list of criteria.

• No duplicate values for 'name' attribute in XML

• No duplicate values for 'id' attribute? in XML

• No empty string as a value for 'name' attribute

• If you include Date attributes 'modified' and 'created', the values of 'modified' attribute must be greater than the value of 'created' attribute

• The XML must not have an empty grl-catalog element

• Do not add elements outside the section named 'grl-catalog'

• In the XML, element named 'intentional-element' must have non-empty values for following attributes- name, id, type

• XML must have section 'actor-def' consisting of actors

• In the XML, each actor element has an 'id' attribute. Do not use the value of 'id' attribute of an actor element as the value for 'srcid' or 'destid' attributes within the section named 'link-def'

• XML must have a section with title 'actor-IE-link-def'

• Within the section with name 'actor-IE-link-def', no two elements with different value for 'actor' attribute, have same value for 'ie' attribute"

• For an element named 'intentional-element', the value for the attribute 'type' of the tag must be one of the following values - Task, Goal, Softgoal, Resource, Belief?"

• For an element named 'intentional-element', the value for the attribute 'decompositiontype' of the tag must be one of the following values - AND, OR, XOR

• For an element with name 'contribution', the value for the attribute 'contributiontype' of the tag must be one of the following values- Make, Help, Break, Hurt

• For an element with name 'contribution', the values for attributes- srcid and destid, in each tag must be different

• Each element with name 'contribution', must have attribute 'srcid' and its value must not be empty string

• Each element with name 'contribution' must have attribute 'destid' and its value must not be empty string

• Each element with name 'decomposition' must have attribute 'srcid' and its value must not be empty string

• Each element with name 'decomposition' must have attribute 'destid' and its value must not be empty string

• Each element with name 'decomposition', must have different the values for attributes- 'srcid' and destid'