**Actors Prompt:**

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

``` As a faculty member, I want to maintain versioning of Extension brochures and FAQs, so that only the most current are used/adapted by other CCE Educators in their work.

As a researcher, I want to discover items in the repository through the library's discovery system and Google, so that I can facilitate my easy use of the content.

As a researcher, I want to see descriptive metadata for the item whether I come to the item through the repository or directly to the PDF, so that I can correctly identify the source of the content.

As a researcher, I want to contact the author of a work that interests me, so that I can learn more about my research.

As a researcher, I want to receive updates when new works are published in a given collection or by a given author, so that I can discover more of their work.

As a patron, I want to search for report or dataset with keywords or a partial or complete title to locate needed report or dataset.```

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

‘’’

- 'Actors':

-patron

-researcher

- 'Goals':

-search operations conducted

-see operations conducted

-contact operations conducted

-see descriptive metadata

-contact the author

-needed report searched

'''

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.

* maintain versioning of Extension brochures and FAQs
* discover items in the repository through the library's discovery system and Google
* see descriptive metadata for the item
* contact the author of a work that interests me
* receive updates when new works are published in a given collection or by a given author
* search for report or dataset with keywords or a partial or complete title to locate needed report or dataset

**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.

* maintain versioning of Extension brochures and FAQs:
  + Implement version control system for brochures and FAQs
  + Track changes and updates to brochures and FAQs
  + Ensure only the most current versions are accessible to CCE Educators
* discover items in the repository through the library's discovery system and Google:
  + Implement search functionality within the repository
  + Integrate with library's discovery system
  + Optimize content for search engine indexing
* see descriptive metadata for the item:
  + Display metadata alongside each item
  + Provide easy access to metadata for users
  + Ensure metadata is accurate and comprehensive
* contact the author of a work that interests me:
  + Implement a contact feature within the system
  + Enable users to send messages to authors
  + Ensure author contact information is up-to-date
* receive updates when new works are published in a given collection or by a given author:
  + Set up subscription/notification system for new publications
  + Allow users to select specific collections or authors to follow
  + Send timely updates to users based on their preferences
* search for report or dataset with keywords or a partial or complete title to locate needed report or dataset:
  + Develop a search engine with keyword and title search capability
  + Implement advanced search filters for reports and datasets
  + Ensure search results are relevant and accurate

**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 ease of access to Extension brochures and FAQs
* Improve discoverability of items in the repository
* Enhance user experience with descriptive metadata display
* Facilitate efficient communication between researchers and authors
* Enhance user engagement through personalized updates on new publications
* Optimize search functionality for easy access to reports and datasets

**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 ease of access to Extension brochures and FAQs:
  + Implement user-friendly navigation for brochures and FAQs
  + Provide clear links to access the most current versions
  + Optimize search functionality for quick retrieval
* Improve discoverability of items in the repository:
  + Enhance metadata tagging for better categorization
  + Implement advanced search algorithms for accurate results
  + Integrate with external search engines for wider visibility
* Enhance user experience with descriptive metadata display:
  + Design a visually appealing metadata layout
  + Ensure metadata is easily accessible on item pages
  + Enable metadata customization options for users
* Facilitate efficient communication between researchers and authors:
  + Develop a direct messaging feature for author communication
  + Implement author contact details display on relevant works
  + Provide notifications for author responses
* Enhance user engagement through personalized updates on new publications:
  + Develop user preference settings for subscription management
  + Send tailored notifications based on user interests
  + Include relevant suggestions for new publications
* Optimize search functionality for easy access to reports and datasets:
  + Implement advanced keyword search capabilities
  + Enhance search filters for specific report or dataset characteristics
  + Ensure search results are organized and relevant

**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>

* HELP: maintain versioning of Extension brochures and FAQs : Ensure ease of access to Extension brochures and FAQs
* MAKE: discover items in the repository through the library's discovery system and Google : Improve discoverability of items in the repository
* HELP: see descriptive metadata for the item : Enhance user experience with descriptive metadata display
* HELP: contact the author of a work that interests me : Facilitate efficient communication between researchers and authors
* MAKE: receive updates when new works are published in a given collection or by a given author : Enhance user engagement through personalized updates on new publications
* HELP: search for report or dataset with keywords or a partial or complete title to locate needed report or dataset : Optimize search functionality for easy access to reports and datasets

**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>

* Maintain versioning of Extension brochures and FAQs DEPENDS-ON Search operations conducted FOR User-friendly navigation
* Discover items in the repository through the library's discovery system and Google DEPENDS-ON See operations conducted FOR Enhanced metadata tagging
* See descriptive metadata for the item DEPENDS-ON See operations conducted FOR Visually appealing metadata layout
* Contact the author of a work that interests me DEPENDS-ON Contact operations conducted FOR Direct messaging feature
* Receive updates when new works are published in a given collection or by a given author DEPENDS-ON See operations conducted FOR Subscription/notification system
* Search for report or dataset with keywords or a partial or complete title to locate needed report or dataset DEPENDS-ON Search operations conducted FOR Advanced keyword search capabilities

**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::maintain versioning of Extension brochures and FAQs : Implement version control system for brochures and FAQs, Track changes and updates to brochures and FAQs, Ensure only the most current versions are accessible to CCE Educators
* AND DECOMPOSITION::discover items in the repository through the library's discovery system and Google : Implement search functionality within the repository, Integrate with library's discovery system, Optimize content for search engine indexing
* AND DECOMPOSITION::see descriptive metadata for the item : Display metadata alongside each item, Provide easy access to metadata for users, Ensure metadata is accurate and comprehensive
* AND DECOMPOSITION::contact the author of a work that interests me : Implement a contact feature within the system, Enable users to send messages to authors, Ensure author contact information is up-to-date
* AND DECOMPOSITION::receive updates when new works are published in a given collection or by a given author : Set up subscription/notification system for new publications, Allow users to select specific collections or authors to follow, Send timely updates to users based on their preferences
* AND DECOMPOSITION::search for report or dataset with keywords or a partial or complete title to locate needed report or dataset : Develop a search engine with keyword and title search capability, Implement advanced search filters for reports and datasets, Ensure search results are relevant and accurate

**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>

```