**Actors Prompt:**

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

``` As a Public User, I want to Search for Information, so that I can obtain publicly available information concerning properties, County services, processes and other general information.

As an Applicant, I want to Request PreApplication Assistance, so that I can receive a response to a request for a meeting or information that is a result of the preapplication assistance.

As a Customer, I want to Create a Customer Portal User Account, so that I can log on to the Customer Portal and perform transactions that first require user authentication.

As a Staff member, I want to Perform a Completeness Review, so that I can validate when an application is complete and eligible for further technical review.

As a Staff member, I want to Record an Internal Note, so that I can share information with other Staff collaborating on the record.

As a Staff member, I want to Assign an Application for Detailed Review, so that I can review the for compliance and subsequently approved or denied. ```

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

‘’’

- 'Actors':

-Staff member

-Applicant

-Customer

- 'Goals':

-remove operations conducted

-apply operations conducted

-record operations conducted

-assign operations conducted

-perform operations conducted

-request operations conducted

-create operations conducted

-a Hold removed

-apply a Hold

-an Internal Note recorded

-assign an Application

-a Completeness Review performed

-PreApplication Assistance requested

-create a Customer portal User Account

'''

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.

Public User

* Applicant
* Customer
* Staff member

**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.

* Search for Information
* Request PreApplication Assistance
* Create a Customer Portal User Account
* Perform a Completeness Review
* Record an Internal Note
* Assign an Application for Detailed Review

**IE Links for Goals**

Connect the goals from the previous step to the actors. It is critical that you answer only as a bulleted list that adheres to the following format.

<a actor>: <a hyphenated list of associated goals>

Do not include any explanation.

**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

Search for Information:

* + Perform search query
  + Retrieve search results
  + Display search results

Request PreApplication Assistance:

* + Submit assistance request
  + Receive response

Create a Customer Portal User Account:

* + Fill out registration form
  + Submit registration form
  + Verify email

Perform a Completeness Review:

* + Check application completeness
  + Validate eligibility for further review

Record an Internal Note:

* + Enter note content
  + Save note

Assign an Application for Detailed Review:

* Select application for review
  + Conduct compliance review
  + Approve or deny application

**IE Links for Tasks of Goals**

Connect the tasks of goals from the previous step to the actors. It is critical that you answer only as a bulleted list that adheres to the following format.

<a actor>: <a hyphenated list of associated tasks of goals>

Do not include any explanation.

**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.

* Obtain publicly available information
* Receive a response to a request for meeting or information
* Log on to the Customer Portal
* Share information with collaborating staff
* Review applications for compliance and approval/denial

**IE Links for Soft Goals**

Connect the soft goals created in the previous step to the actors. It is critical that you answer only as a bulleted list that adheres to the following format.

<a actor>: <a hyphenated list of associated soft goals>

Do not include any explanation.

**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.

Obtain publicly available information:

` Enter search query in the search bar

Navigate through search results

Click on desired information link

Receive a response to a request for meeting or information:

* + Submit request for pre-application assistance
  + Check email or portal for response

Log on to the Customer Portal:

* + Access Customer Portal login page
  + Input username and password
  + Navigate to dashboard

Share information with collaborating staff:

* + Access internal note feature
  + Enter relevant information
  + Save note and make it visible to collaborating staff

Review applications for compliance and approval/denial:

* + Access application review section
  + Verify completeness of application
  + Evaluate compliance with regulations
  + Make decision for approval or denial

**IE Links for Tasks of Soft Goals**

Connect the tasks of soft goals from the previous step to the actors. It is critical that you answer only as a bulleted list that adheres to the following format.

<a actor>: <a hyphenated list of associated tasks of soft goals>

Do not include any explanation.

**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::Search for Information : Obtain publicly available information
* HELP::Request PreApplication Assistance : Receive a response to a request for meeting or information
* MAKE::Create a Customer Portal User Account : Log on to the Customer Portal
* MAKE::Perform a Completeness Review : Review applications for compliance and approval/denial
* HELP::Record an Internal Note : Share information with collaborating staff

**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>

* Perform a Completeness Review DEPENDS-ON Staff member FOR Application completeness validation
* Record an Internal Note DEPENDS-ON Staff member FOR Sharing information with collaborating staff
* Assign an Application for Detailed Review DEPENDS-ON Staff member FOR Compliance review and subsequent approval/denial
* Request PreApplication Assistance DEPENDS-ON Applicant FOR Request for a meeting or information
* Create a Customer Portal User Account DEPENDS-ON Customer FOR User authentication to perform transactions on the Customer Portal
* Search for Information DEPENDS-ON Public User FOR Obtaining publicly available information

**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 DECOMPOSITON::Perform a Completeness Review : Application completeness validation : Compliance review for approval/denial*
* AND DECOMPOSITON::Assign an Application for Detailed Review : Compliance review for approval/denial
* AND DECOMPOSITON::Record an Internal Note : Sharing information with collaborating staff
* AND DECOMPOSITON::Request PreApplication Assistance : Request for a meeting or information

**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.

1. No duplicate values for 'name' attribute in XML
2. No duplicate values for 'id' attribute? in XML
3. No empty string as a value for 'name' attribute
4. If you include Date attributes 'modified' and 'created', the values of 'modified' attribute must be greater than the value of 'created' attribute
5. The XML must not have an empty grl-catalog element
6. Do not add elements outside the section named 'grl-catalog'
7. In the XML, element named 'intentional-element' must have non-empty values for following attributes- name, id, type
8. XML must have section 'actor-def' consisting of actors
9. 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'
10. XML must have a section with title 'actor-IE-link-def'
11. Within the section with name 'actor-IE-link-def', no two elements with different value for 'actor' attribute, have same value for 'ie' attribute"
12. 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?"
13. 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
14. 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
15. For an element with name 'contribution', the values for attributes- srcid and destid, in each tag must be different
16. Each element with name 'contribution', must have attribute 'srcid' and its value must not be empty string
17. Each element with name 'contribution' must have attribute 'destid' and its value must not be empty string
18. Each element with name 'decomposition' must have attribute 'srcid' and its value must not be empty string
19. Each element with name 'decomposition' must have attribute 'destid' and its value must not be empty string
20. Each element with name 'decomposition', must have different the values for attributes- 'srcid' and destid'