**Actors Prompt:**

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

``` As a moderator, I want to invite estimators by giving them a URL where they can access the game, so that we can start the game.

As a moderator, I want to start a round by entering an item in a single multi-line text field, so that we can estimate it.

As a developer, I want to have a list of definitions for commonly used terms, so that everyone working on the project can understand each other more easily.

As a developer, I want to have created database indexes, so that the queries run as fast as possible.

As a moderator, I want to import stories from a spreadsheet, so that I don't have to copy and paste each individual story.

As a moderator, I want to edit an item in the list of items to be estimated, so that I can make it better reflect the team's understanding of the item.```

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

‘’’

- 'Actors':

-moderator

-developer

- 'Goals':

-edit operations conducted

-start operations conducted

-invite operations conducted

-add operations conducted

-delete operations conducted

-have operations conducted

-written operations conducted

-created operations conducted

-edit an item

-a round started

-an item added

-up to 15 estimators invited

-delete an item

-have a list

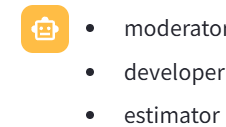
-have the application function

-created database indexes

-written a site

'''

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.

* Invite estimators by providing a URL
* Start a round by entering an item
* Have a list of definitions for commonly used terms
* Create database indexes
* Import stories from a spreadsheet
* Edit an item in the list of items to be estimated.

**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.

* Invite estimators by providing a URL:
  + Generate a unique URL for each estimator
  + Track the number of estimators who have accessed the URL
* Start a round by entering an item:
  + Provide a multi-line text field for the item entry
  + Validate the entered item for correctness and completeness
* Have a list of definitions for commonly used terms:
  + Compile a comprehensive list of terms used in the project
  + Define each term clearly and succinctly
* Create database indexes:
  + Identify the tables in need of indexing
  + Implement indexing strategies for improved query performance
* Import stories from a spreadsheet:
  + Develop a feature to upload spreadsheet files
  + Parse the spreadsheet data and populate the stories accordingly
* Edit an item in the list of items to be estimated:
  + Allow for item selection and modification
  + Update relevant estimations based on the modification

**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.

* Improve collaboration among team members
* Enhance understanding of project terminology
* Increase query performance efficiency
* Streamline the estimation process
* Ensure data integrity and security

**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.

* Improve collaboration among team members:
  + Implement a chat feature for real-time communication
  + Schedule regular team meetings for discussions
  + Introduce a shared document repository for information sharing
* Enhance understanding of project terminology:
  + Create a glossary of project-specific terms
  + Conduct training sessions on project terminology for team members
  + Encourage the use of defined terms in all project communications
* Increase query performance efficiency:
  + Analyze database indexing strategies for optimization
  + Monitor and fine-tune database query execution plans
  + Implement caching mechanisms for frequently accessed data
* Streamline the estimation process:
  + Develop a user-friendly interface for entering estimates
  + Provide automated calculation features for estimates
  + Enable tracking and reporting functionalities for estimations
* Ensure data integrity and security:
  + Implement data encryption for sensitive information
  + Set up regular data backups and disaster recovery plans
  + Conduct security audits and vulnerability assessments regularly

**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::Enhance understanding of project terminology : Improve collaboration among team members
* HELP::Create database indexes : Increase query performance efficiency
* HELP::Streamline the estimation process : Improve collaboration among team members
* HURT::Import stories from a spreadsheet : Streamline the estimation process
* MAKE::Ensure data integrity and security : Increase query performance efficiency
* HELP::Enhance understanding of project terminology : Ensure data integrity and security

**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>

* Enhance understanding of project terminology DEPENDS-ON Improve collaboration among team members FOR shared understanding
* Create database indexes DEPENDS-ON Increase query performance efficiency FOR optimized data retrieval
* Streamline the estimation process DEPENDS-ON Improve collaboration among team members FOR efficient estimation process
* Import stories from a spreadsheet DEPENDS-ON Streamline the estimation process FOR ease of story management
* Ensure data integrity and security DEPENDS-ON Increase query performance efficiency FOR secure data handling

**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::Start a round by entering an item : Provide a multi-line text field for the item entry
* AND DECOMPOSITON::Create database indexes : Identify the tables in need of indexing
* OR DECOMPOSITON::Edit an item in the list of items to be estimated : Allow for item selection and modification
* XOR DECOMPOSITON::Import stories from a spreadsheet : Develop a feature to upload spreadsheet files

**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>

```