

## Tasks & Related

# Tasks & Roles – Tasks relate to roles.

## Role

A role is a duty that a person takes on or plays.

### Examples of some software engineering roles:

- programmer
- tester
- CEO
- client
- product manager

“A role performs a task.”

An actual person can play a role » perform associated tasks for that role.

## Role » Tasks » Responsibilities

Each person on a team has specific **responsibilities** or **tasks** to perform while **in a role**.

For example,

- A programmer may take on the task of writing code for a certain feature.
- A tester may be assigned to test that feature.
- The product manager may review that feature once it's complete, to ensure it works as the client expects.

-> Roles help to organize work based on the team members involved.

# Quiz

## Quiz – context

A programmer is developing an application to support a user with several tasks around sharing and viewing recipes.

- Users have the option to create an account and a profile or use a guest account to post and view recipes.
  - Users can also browse recipes from the main page.
  - The search task to be developed, will allow users to search posted recipes using specific keywords.
- > The programmer needs to know which user tasks the search task is dependent on.

Which of the following user tasks is required in order to support the search function?

- A. Post a recipe.
- B. User adds optional information to their profile.
- C. User logs into their account.
- D. User browses recipes.

Which of the following user tasks is required in order to support the search function?

- ✓ A. Post a recipe.
- B. User adds optional information to their profile.
- C. User logs into their account.
- D. User browses recipes.

# Task & Work products

**“A work product is the output that a task produces.”**

-> This output could be anything involved in the development, not just the final product.

Work products = the final product + other intermediate outputs

Such as

- designs
- requirements
- source code
- test cases
- internal documentation

# Tasks & Work products

Work products are outputs of tasks,

- “A task produces a work product.”

Note that:

- “Sometimes tasks use work products as input.”

## Example

- The tasks of writing source code for a feature will refer to the feature's design.
- That design was the output of a previous task to create a design.
- Therefore, a task also uses work products.

“A task consumes a resource.”

“Resources are anything that improves, advances or funds work to be done.”

- time money
- technology
- knowledge
- staff
- ...



# Task & Related in One Picture



# Example

## Example of Task & Related

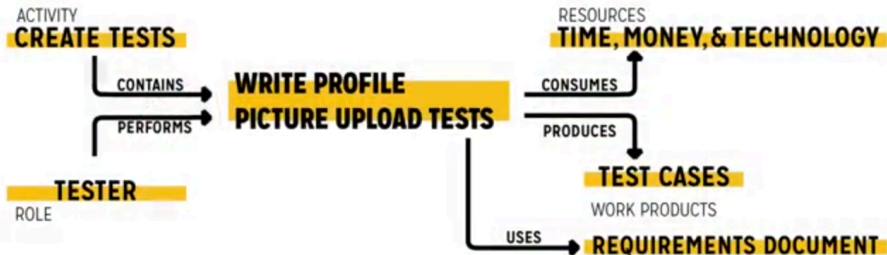
We are developing an application.

Your client requires that the user is able to

- upload a profile picture,
- change their name,
- and update their personal description.



# Task & Related



## Example of task, activity, role, resources, ...

- Example of task: write a test for uploading their profile picture.
  - An activity containing this task is creating tests.
  - This task will be performed by a tester role.
  - The task consumes many resources such as time, money, and technology.
  - The work product that this task produces are test cases.
  - The task also uses the requirements document as a work product, since you want to verify that the product does what the requirements specified.
- > In this case, we want to test that the user is able to upload a profile picture.

# Quiz

## Quiz – context

- You have been assigned to a new project.
- In this project, your team is developing a new database and checkout system for the local library.
- It uses a mobile app to check out books to the user's account.
- Theodore is a programmer on your development team. He has been assigned to
  - writing source code for adding new books to the database,
  - establishing the database,
  - writing the text for the help page,
  - and executing tests for creating an account.

Which of these assignments is an activity and not a task?

- A. Writing source code for adding new book to the database.
- B. Establishing the database.
- C. Writing the text for the help page.
- D. Executing tests for creating an account.

## Which of these assignments is an activity and not a task?

- A. Writing source code for adding new book to the database.
  - ✓ B. Establishing the database.
  - C. Writing the text for the help page.
  - D. Executing tests for creating an account.
- 
- Tasks are low level specific actions like those in A, C and D.
  - There could be many low level tasks in the high level activity of establishing the database.