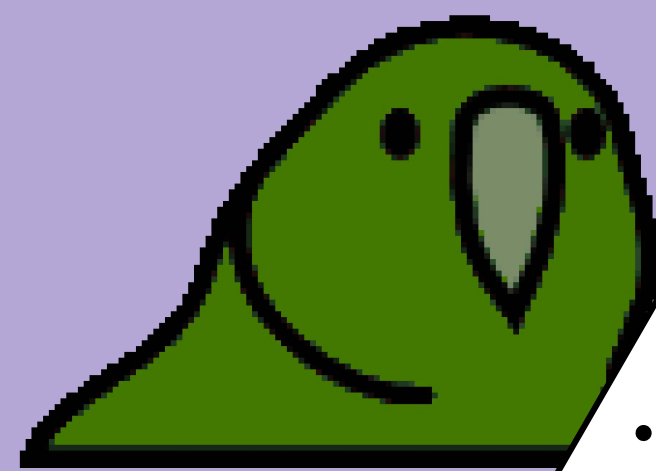


# IT Industry Roles

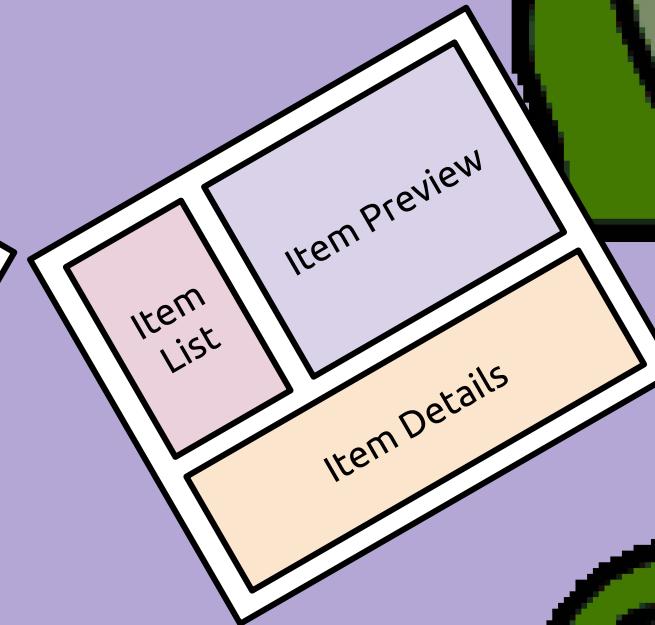
When we think of the Information Technology industry, we often think of technical jobs like those of software developers. However, there are often many different technical and non-technical roles involved in delivering an IT project, let's take a look at some of them!

## Business Analyst

Works with users and other stakeholders to understand their requirements.



- How will users interact with the program?
- Which birds should be included?
- What kinds of facts should we include?

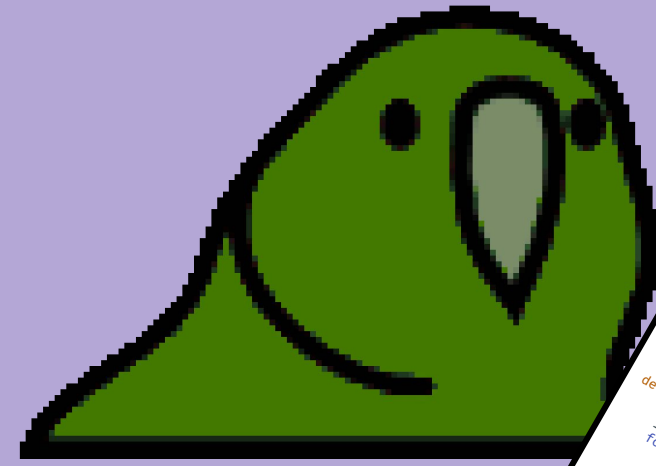


## User Experience Designer

Designs how users will interact with software to ensure they can easily achieve their goals.

## Software Developer

Designs the algorithms and software implementations for a system, and programs the source code.



```
BIRD_FACTS = {
    'kea': [
        'Kea are parrots.',
        'Kea have orange feathers under their wings.'
    ],
    'kakapo': [
        'Kakapo are parrots.',
        'Kakapo are nocturnal.'
    ]
}

def print_facts_for_bird(bird):
    """Print facts about the given bird."""
    list_of_facts = BIRD_FACTS[bird]
    for fact in list_of_facts:
        print(fact)

user_input = ...
while user_input != 'exit':
    user_input = input('Enter the name of a bird: ')
    if user_input in BIRD_FACTS:
        print_facts_for_bird(user_input)
    else:
        print('Hmm, I do not know that bird.')
```



## Software Tester

Tests developed software to ensure it meets user requirements, considering "edge cases" where the software is likely to have bugs.



```
root@server:~$ cat /conf.yml
restart: true
caching: false
environment:
  - development
  - testing
  - production
```

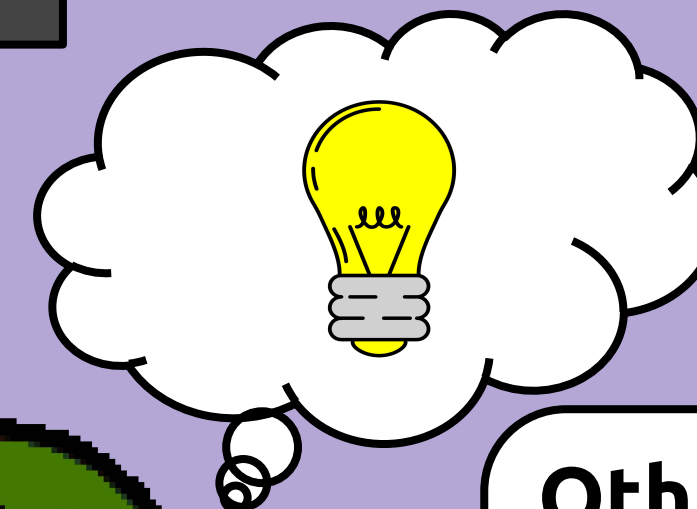


## Network Engineer

Designs, constructs, and maintains networks of the computers within an organisation, with a focus on reliability and security.

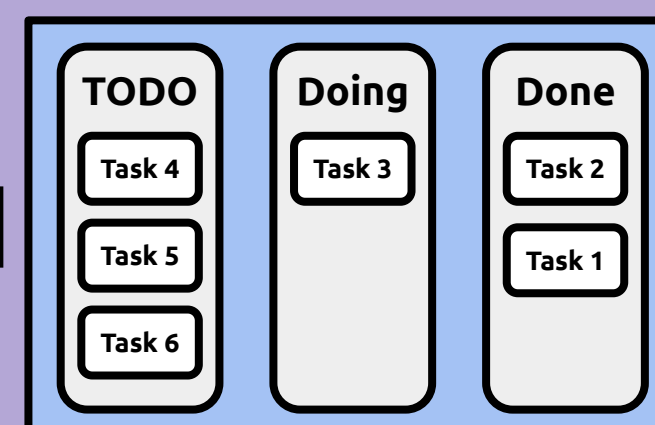
## System Administrator

Designs and configures systems involving custom and off-the-shelf software, and ensures they keep running reliably and securely.



## IT Managers

Responsible for coordinating IT teams to develop products and deliver projects.



## Other roles that use IT

Many other people make software or operate IT systems to solve their problems, including scientists, data analysts, and hobbyists.