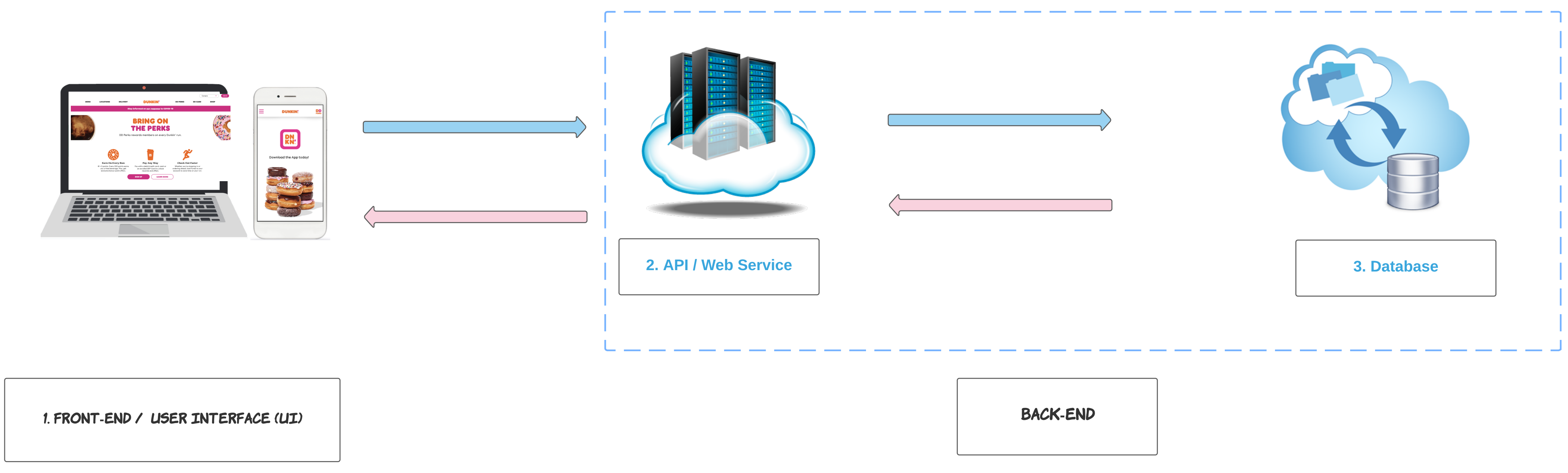
Software Application Types

Software Application types

- **Web Based application** :
  Web app is **accessed over a network connection** using HTTP/HTTPS with any browser (Safari, Chrome, IE, Firefox, etc)
- **Desktop applications**:
  Desktop apps that you download and install on your device / on any Operating system (Mac OS, Windows, Linux)
- **Mobile applications**:
  Mobile apps designed to run on **mobile** device such as a **phone**, tablet, or a watch.
- **Cross - Platform applications**:
  Cross platform software works on multiple operating systems or devices.

Software Application Layers (3)



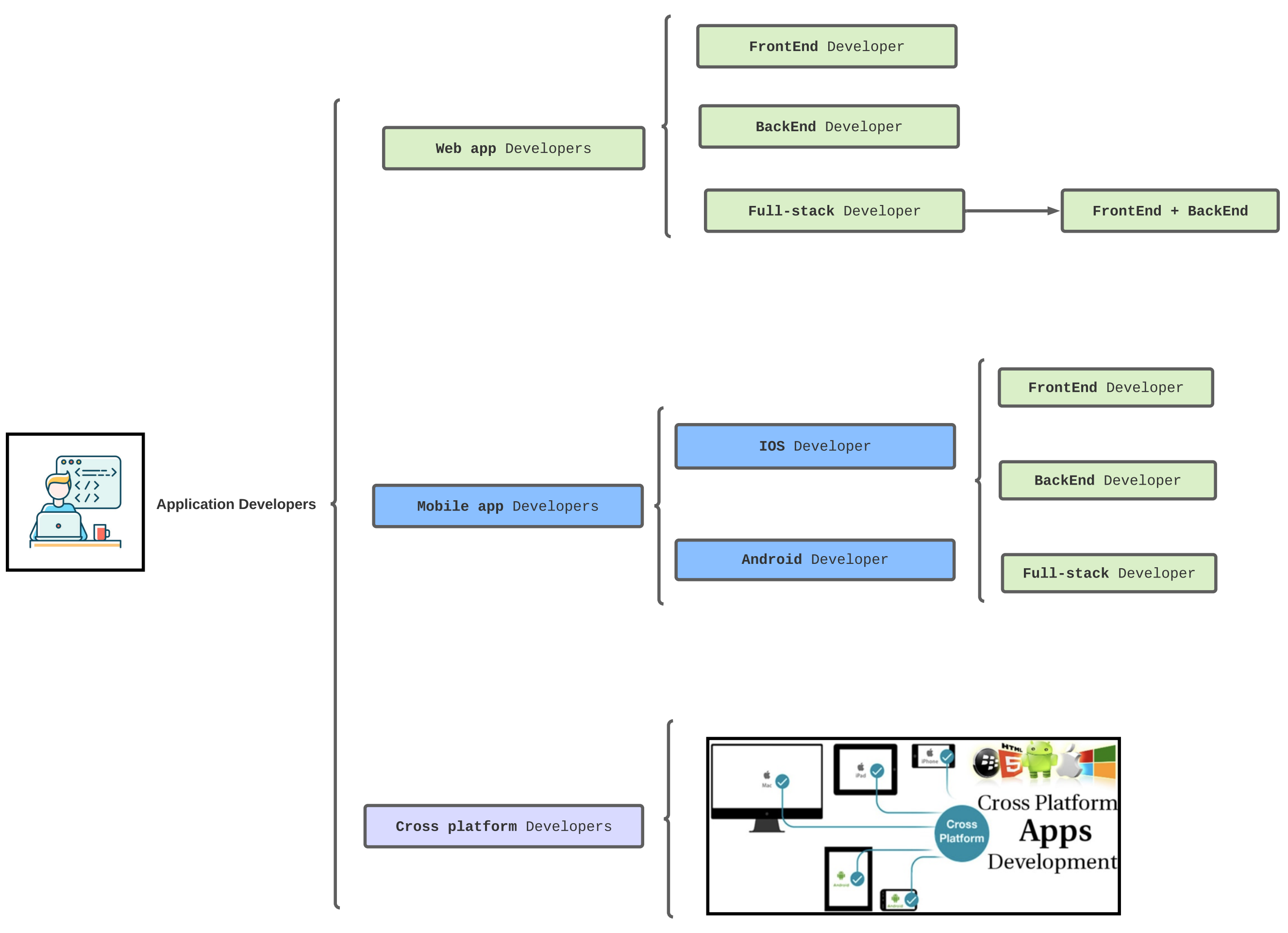
2. API / Web Service

3. Database

1. FRONT-END / USER INTERFACE (UI)

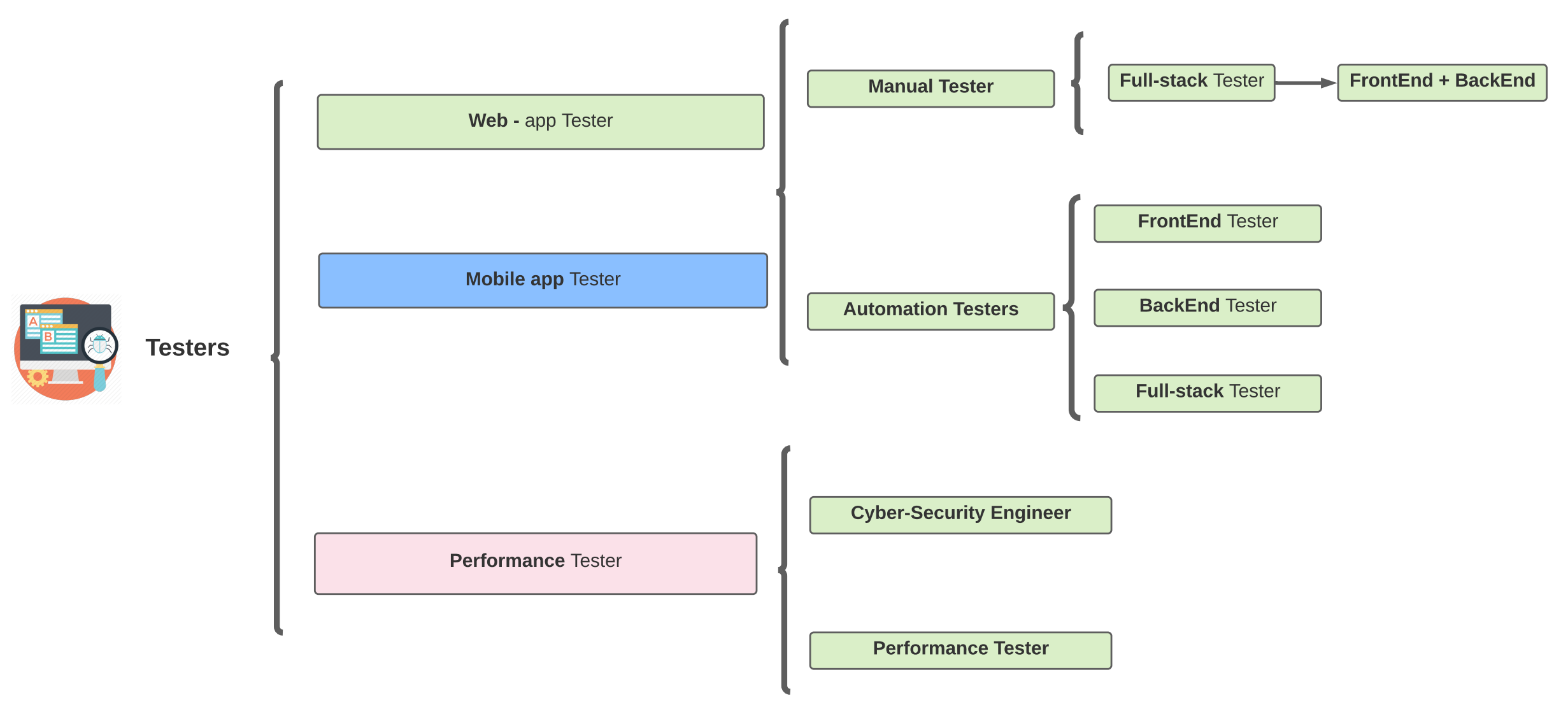
BACK-END

Developers & Testers Types



Application Developers

- **Web app** Developers
  - **FrontEnd** Developer
  - **BackEnd** Developer
  - **Full-stack** Developer → **FrontEnd + BackEnd**
- **Mobile app** Developers
  - **IOS** Developer
  - **Android** Developer
    - **FrontEnd** Developer
    - **BackEnd** Developer
    - **Full-stack** Developer
- **Cross platform** Developers



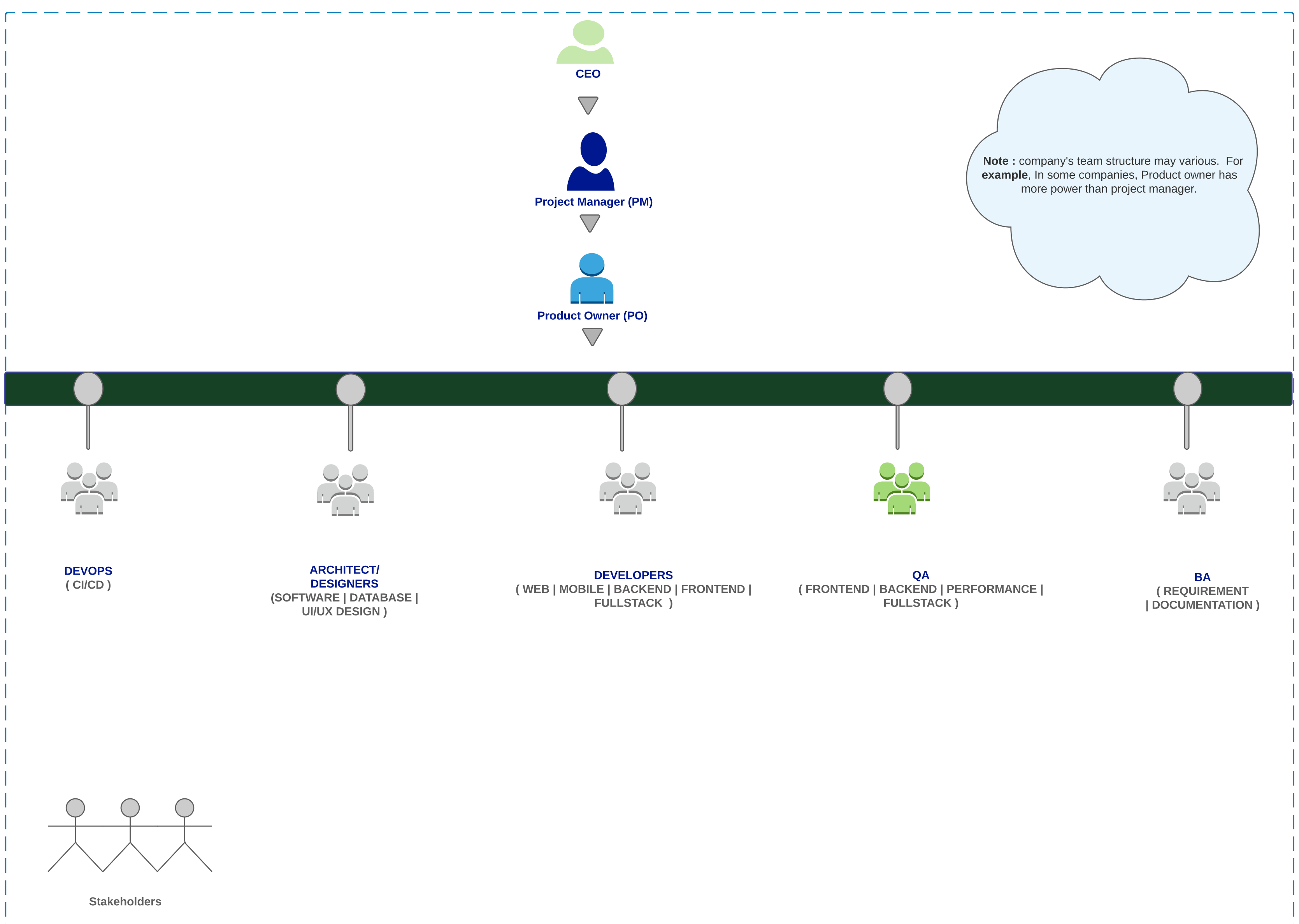
Testers

- **Web -** app Tester
- **Mobile app** Tester
  - **Manual Tester**
    - **Full-stack** Tester → **FrontEnd + BackEnd**
  - **Automation Testers**
    - **FrontEnd** Tester
    - **BackEnd** Tester
    - **Full-stack** Tester
- **Performance** Tester
  - **Cyber-Security Engineer**
  - **Performance Tester**

As a Tester, your title at work could be:

1. **SDET** (Software Development Engineer in Test)
2. **QA** (Quality Assurance)
3. Software Tester
4. Automation Tester
5. QA Tester
6. Software Test Engineer
7. QA Automation Engineer
8. QA Engineer
9. Automation Test Engineer
10. Test Automation Engineer
11. Software Engineer in Test

Various Roles in IT Industry



CEO

Project Manager (PM)

Product Owner (PO)

Note : company's team structure may various. For **example**, In some companies, Product owner has more power than project manager.

DEVOPS
(CI/CD)

ARCHITECT/ DESIGNERS
(SOFTWARE | DATABASE | UI/UX DESIGN)

DEVELOPERS
(WEB | MOBILE | BACKEND | FRONTEND | FULLSTACK)

QA
(FRONTEND | BACKEND | PERFORMANCE | FULLSTACK)

BA
(REQUIREMENT | DOCUMENTATION)

Stakeholders

Stake Holders

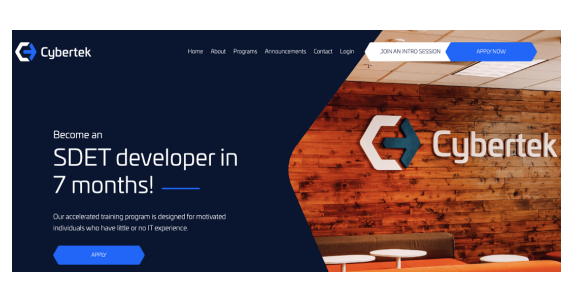
- **Customer / Client** -- A person or company who own the software.
  Client could be internal or external.
- **Investors** -- Invest money, and expect return after the software ready.
  Could be a person or a company.

Restaurant owner, wants a website → MarketMan

Restaurant software development company

The restaurant owner asks MarketMan to build a website for her restaurant. In this case, the restaurant owner is an external client for MarketMan company.

Cybertekschool →



Cybertekschool developers build this website

CybertekSchool developers build the website based on CEO Kuzzat's idea. in this case, Kuzzat is an internal client to his own company's website.

BANK OF AMERICA → ATLASSIAN Jira

BOA purchased Jira application from Atlassian company, BOA is an external client of Atlassian.