# Obraz zawierający osoba, podłoże, zewnętrzne Opis wygenerowany automatycznie

# To grow carrots in Development team

Every time some visitor from other office comes to Warsaw he is guided through office and all departments and teams inside are introduced. Once, one of my co-worker from different department had a guest. Of course standard round was made and when she stopped ahead of development teams, he introduced us and in the moment ask question:

- And those are developers. So Pawel what are you actually do?

As we knows each over for some time I was so shocked with the question that I cannot imagine she doesn’t know anything which she could tell to the visitor. I answered that:

* Most of the time we grow carrots.

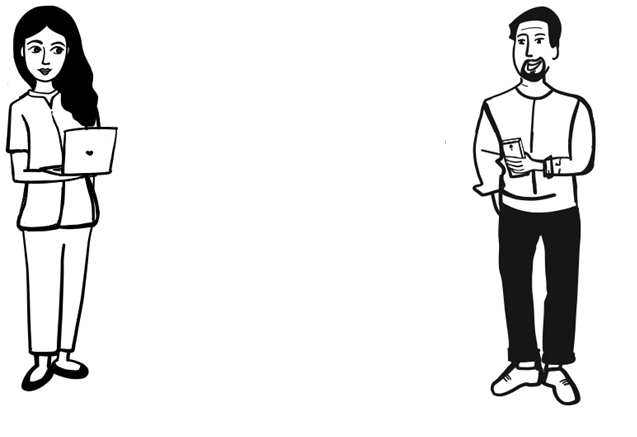
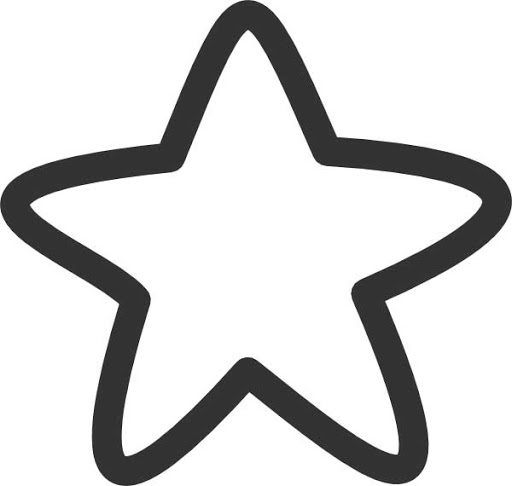
## So what developers generally do?

Let’s take one some example which will help us to understood IT work. I was working in major polish bank, writing payment module in internet banking.

When you what to make a money transfer to your friend you usually use one of two options:

* Phone
* Internet banking

Both of those ways are simple for the users, but after clicking **Send** button, magic created by developers happens.



Magic

Magic

To understood what developers do, we need to split our nice graph into a little bit more technical one.

To make a transfer our cartoon girl opens the Internet banking site and make transfer in colorful interface. When she click sent, information about her wish is transferred through Server to Core system.

Core system sends information about all transfers made during a day to other bank with the file. On the other side so in another bank the situation is similar.

In presented model on this diagram we can distinguish at least 3 competence-different teams:

1. Internet banking team
2. Core team
3. Mobile team

Lets focus on the Internet banking team.

# Monthly routine

Every couple months to the development team specification of new functionality is send. Let’s assume that business would like to have search on the transfer page. The people responsible for transfer page, meet with IT representative and they start describing the functionality. At the beginning it look very simple task, just simple text field which will autocomplete the recipient of the transfer.

Unfortunately nothing is easy. During the analysis we are asking questions like:

* Does the search should look at the history or only in the address book?
* After which letter autocomplete box should appear?
* How many items in autocomplete box should be shown?
* Do we accept the mouse or enter click?
* What set of data will we show in the autocomplete?
* Should we show additional data if we have more than one recipient with the same name (our friend has two accounts)?
* How autocomplete should look like?
* And others…

After all those questions will be answered, visualization of the screens will be prepared, “developers” starts working. It means that development team takes functional specification, prepared graphics and split all feature into small tasks which can be distributed across team members.

Developers is very general term. Usually development teams consist of:

* Frontend developers – responsible for the webpage showed in browser
* Backend developers – responsible for the application sever side
* Testers – responsible for checking if everything is working correctly
* Analysts – responsible for checking if functionality meet business expectations

## Frontend developers

This group is responsible for the visible part of the application so for the icons, colors, nice behavior of the components, popups. They also need to integrate with the services which are exposed by backend developers.

## Backend developers

They are responsible for exposing services. Service is a small functionality which is created to perform particular job. For example in our case we could have service which will return list of contacts saved in recipient list in the Internet banking

## Testers

Everything which will be created by Frontend and Backend developers need to be checked. Testers or Quality Assurance people checks the solution before sharing with the users. They are trying to break the new functionality simulating different users behavior.

## Analysts

This is supportive role which should find an answer for the topics which are not precise describe in the documentation. They also prepare documentation which describes solution.

# The process

Delivery of the functionality can take couple days or even couple months. Development team during this time make repeatable interactions. Backend expose services which frontend uses and testers validate.

The process continues until all task in given functionality will be finished and feature can be shared with the users.