

Applied web architecture - Lab 5

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What I've learned from previous experience and in class is that API:s help us use different applications on different devices or web pages. You can use API on your own website for example if you would like to show the current weather on your location, show the user where your office is located, show the flow of an hashtag on Instagram or recent posts on Facebook. API:s also help us connect applications to different devices. For example an android phone does not speak the same language as an iPhone or so Facebook uses API:s to translate the content depending on what device the user what it to be shown at.

What the API actually does is lets say you are on your phone trying to buy a bus ticket. Instead of going to the ticket office and talk to a cashier the API is your cashier (on your phone). You make a request by pressing a button called buy and the "cashier" runs between your bank account and the bus company's bank account with your money and then back to you with your ticket. An API is kind of like a mailman delivering data.

Here is a video that i found very good in explaining API:s
<https://www.youtube.com/watch?v=s7wmiS2mSXY>

Let's say you are working on a projekt and you save your files one version to come back to if something would go wrong later on or for some reason you was not happy with the turnout. You will always have that version saved but if you are happy with the turnout you want to save it again and again and so on. Over time this is not a good system cause you end up with a bunch of files in different versions. With GIT you can connect there files and and even create new branches so that different people can work on the same project without disturbing each other. GIT keeps track of all versions of your file over time.

Helpful videos that explained it pretty good.
<https://www.youtube.com/watch?v=mLnxwICEIb8>
<https://www.youtube.com/watch?v=OqmSzXDrJBk>

If we were to use API in our project we could use:

- ° App- Android & Iphone
We could make an app using API to get curtain data and present it within the app both for Android and Iphone.
- ° Instagram- # flow
To get the users of our site inspired to do more of our training programs we could use a Instagram API to present posts hash tagged with for example #training.
- ° Location- Gym
If we want to expand the idea we could also point out different gyms on a map using an API from Google.