LAB 5

REST API'S & GIT

To get some information from a source, without taking all the information you can use a REST API. This lets you use GET and POST via the HTTP protocol and interact with that information.

Say I would like the user to be able to translate some of the text on my website. Then I can use googles translate API (Cloud Translation API). This API has some already written functions that you can use together with a programming language of your choice.[1]

You usually use Git in projects where you need to change files overtime. These files are stored in something called a repository. It is also very useful when you are multiple contributors to a project. When uploading/ updating files you will create a new commit which will turn into a commit object which contains a bunch of files or only one file. They are: the new files, the previous files (the ones that have been updated) called parent commit objects and a hashed name to identify the commit (you can also give the commit a descriptive name).

You also have something called Heads in a repository. When creating a new repository you have one head (also called a branch in Git) to start with, usually called *master.* You can create multiple heads by branching.

REST API IN **THE PROJECT**

In our project, we did a web application called Förkrök (Pre Party). If it would be made into a mobile application the user would need all the information given on the website. That would be:

- **Games**
  - all the games stored in the database
    - *Name*
    - *Category*
    - *Objects needed*
    - *Instructions*
    - *Image (some games have instructive illustrations)*

- **Drinks**

[1] https://cloud.google.com/translate/docs/translating-text#translate-translate-text-php

- all the drinks stored in the database
  - *Name*
  - *Ingredients needed*
  - *Instructions*
  - *Illustrative image*

- **Food**
  - all restaurants who are open late and their info stored in the database
    - *Name*
    - *Information*
    - *Location information (in our case with the use of google maps API)*

- **Bars & Clubs**
  - all bars & clubs and their info stored in the database
    - *Name*
    - *Information*
    - *Location information (in our case with the use of google maps API)*

- **The users and their favourites**
  - *usernames*
  - *passwords*
  - *favourite marks*