Lab 1

Purpose

Create a full stack web application to experience a modern web application and all the transaction layers of it. The lab will also help the student to get a feel for the first AWS service and the AWS Console. The product created in this exercise will be used during the rest of the course and become more and more "cloudified" along the way.

Description

The goal of this exercise is to have a simple working Twitter clone running on a virtual server in the AWS cloud.

Features:

- Create, login and logout a user (username, password, bio, posts and other users they follow)
- Be able to edit own bio and password
- Be able to create posts (message and postdate)
- Be able to delete own posts
- Be able to find other users
- Be able to read other users bio and see their posts
- Be able to follow and unfollow users
- Be able to see a flow of posts, sorted by latest first of my posts and the posts of all users followed

Other requirements:

- Need to communicate using REST and JSON between frontend and backend
- Need to communicate with SQL between backend and database
- Need to be deployed in an AWS EC2 instance
- All code needs to be posted in a public repo on GitHub

Technologies allowed:

- DB: MySQL (recommended), PostgreSQL
- BE: Java (recommended with Spring boot), Golang, NodeJS or Python (C# and Ruby allowed without support)
- FE: HTML/CSS/JS (recommended Vue.js)

Result

To show your work you will turn in a couple of things in the "ithsdistans.se" form for this exercise.

- A link to a public Github-repository containing all deployed code (both frontend and backend, passwords and accounts may and should not be in the repository).
- A public DNS-address to your EC2 instance (something like: *ec2-XX-XX-XXX-XXX.eu-north-1.compute.amazonaws.com*), that allows the assessor to access the deployed system and perform all tasks in the system specified above.