

DA376E - Lab #1

INSTRUCTIONS

This assignment consists of one task. This is an individual assignment. The lab will be graded pass or fail.

TASK 1 – DEPLOYMENT OF APPLICATION IN THE CLOUD

In this first lab you will use the Heroku Cloud. Start with creating a free account on Heroku.

<https://signup.heroku.com/dc>

After that you should follow the instructions to install Heroku CLI tool.

<https://devcenter.heroku.com/articles/heroku-cli>

Also make sure that you have your Javascript / Node.js environment installed and it is working.

It could be good to refresh your Node.js and express routing knowledge:

https://www.w3schools.com/nodejs/nodejs_intro.asp

<https://expressjs.com/en/starter/basic-routing.html>

You must have Git installed and on Windows I recommend working with Git Bash

<https://gitforwindows.org/>

Start following the tutorial here and deploy the node-js-getting started project.

<https://devcenter.heroku.com/articles/getting-started-with-nodejs>

Do the steps

- Introduction,
- Setup (if you have not done it before)
- prepare the app
- Deploy the app

After this you should have the example running on the Heroku cloud.

After this modify the example project or create a new and add a route (endpoint), for example /yourname that will display your name or something similar. As an example, below

<https://glacial-cove-41747.herokuapp.com/fredrikstridh>

First test the app locally and then commit the changes that you have done to your local Git repo and then push the updates to the Heroku Cloud -> "git push heroku main"

Add a readme file with markdown that should contain the following.

- The URL to your deployed application
- The name of the endpoint
- Short description minimum 15 - 20 sentences of what you did in the lab and if you had any problems.

Create an archive of your source code for the task and include the readme file. **Do not include the directory "node_modules".**

Also add a screenshot of you running application in the archive.

Upload to canvas.

ALTERNATIVE

If you want, you could also deploy the application in the Microsoft Azure Cloud. But then you must research a bit in you own how to deploy the application.

<https://docs.microsoft.com/sv-se/azure/app-service/quickstart-nodejs?pivots=platform-windows>

EXTRA CHALLENGE

Add database support to your application and fetch some data from it.

<https://devcenter.heroku.com/articles/getting-started-with-nodejs#provision-a-database>