Introduction

Practical Project 2

Evaluation

These are the assessments which will be evaluated:

- Requirement analysis report (**15%**)
- Design report (**15%**)
- Final product (**55%**)
- Peer review (**5%**)
- System walkthrough (**10%**)

Subjects

- Git
  - Commands
  - GitHub
- Database setup and Model API
- Coding structure
  - Layered structure
    - Views
    - Services / Managers / Querysets
  - Folder structure within the project
- Authentication and authorization
- Exception handling

Tools

Developer environment

- **PyCharm** - *IDE for writing Python code*
- **Google Cloud** - *A cloud solution to create database provided by Google*
- **DataGrip** - *Database IDE to view, filter and manipulate data in SQL*
- **DBeaver** - *DBeaver is free and open source universal database tool for developers and database administrators*

Other tools

- **Discord** - *for team collaboration (see instructions in **Canvas**)*

Lectures

All lectures will be available in **Canvas** when the course begins and can be viewed at all times

They will cover the following subjects:

- How to build a complete web system using **Django** and **PostgreSQL**
- How to work with **Git** and set up a remote repository using **GitHub** when working with a group
- What is the MTV pattern?
- What is authentication and authorization?
- Setting up authentication and authorization in a **Django** system

Open lab class

On Tuesdays and Thursdays, will be an open lab class from 09:00 - 12:00

The open lab class will be held in M201. The structure will be as follows:

- Register your name on the whiteboard
- When it is your turn, you will receive an assistance from the next available teacher

Assignments and hand-ins

All assignments are submitted through **Canvas** and are accessible in the **Assignments** section

Communications

Piazza is open for this course, which students should submit their questions regarding the course and assignments. As always, before submitting your questions make sure you are not asking a questions which has already been answered. Students may be anonymous to each other, but the teacher / TAs can see who you are, so make sure to be polite and respectful of others

Discord is open for this course, which students can use for group text and video chats. This will not be the place to ask formal questions regarding the course and assignments, use **Piazza** for that

If there are any personal matters, please contact me through email arnarl@ru.is

Peer review

Each student is required to grade the other teammates in his group

There is an assignment setup for this which will demonstrate further how this should be done

If a student is suspected to be doing much less work than others in the group - she/he could fail the course

System walkthrough

Each group should do a system walkthrough of their system, demonstrating how the system works and flows

This should be approximately 10-15 minutes in length and will be evaluated on the following criterias:

- Flow of the demonstration
- Transition between group members
- Are all features shown?
- Extra sauce (*which can be something creative*)

Questions?

Feel free to ask questions later in either **Discord** or **Piazza** and I will get back to you as soon as possible.