Deliverable 1 – Web 1.0

1   Introduction

The goal of this course is to build a web application. We have two deliverables:

1. Deliverable 1 (this one): Develop an initial approximation using Web 1.0 technologies.

2. Deliverable 2 : Adding web services and a REST API for frontend consumption.

We should tackle several aspects of web development:

- authentication and session management

- creation, retrieving, updating and removal of data

- how data is sent to the server

- how data is presented to the user on the browser

We will do all of this with Python's Django framework, and the traditional technologies: HTML, CSS, Javascript.
One recommended project to touch on all these aspects: let's make a simplified Facebook wall clone with the following functionalities:

- users can sign up, and later on sign in

- a signed-in user can edit its profile (a profile is, at the very least: a fixed username, a short description and an avatar image)

- a signed-in user can send a "connect" message to other users, if the other user accepts the request, they are both added to each other's friends list

- a signed-in user can publish state updates (text, links, images maybe?), connected 'friends' may comment on those updates

- a signed-in user can edit or remove a previously published state

- a signed-in user can view a timeline of publications of its friends list

- any user can view the profile of any registered user (profiles are public)

2   Scores per task

The following scoring per task is for the proposed project. If you opt for your own idea, we will have to define the tasks and the scoring.

- **1.5pt** User registration

- **1pt** User sign-in

- **1pt** User profile editing

- **0.5pt** Public user profile view

- **2pt** User adding/removing "friends" (friend request that the other user has to accept, removing is done without permission)

- **2.5pt** Status creation, edit, deletion + comments

- **1pt** "Friends" Timeline view

- **0.5pt** Heroku web publish

It is expected not only the backend code, but also some html+css styling on the views. Be creative!

3   Delivery

When? We will work through this assignment in the PRALAB sessions and the delivery date is due Friday, 25th of March of 2022, at 23:55. You have this info in the Virtual Campus.

What? A **zip** or **tar.gz/bz2** compressed file (no rar!) containing the following:

- All the project source-code files (basically the folder of the project).

- A Readme.md/txt file with the URL of your deployed project in Heroku.

Additionally: This assignment can done individually or in groups (2-3 people). It accounts for 25% of the final score of the course. Be extra careful **including the names of the participants in the uploaded files**.