PGR211-1 23H: Advanced Programming for Data Science
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Final Exam

- This is a written home examination in the group. This means that you are being provided with a Python web framework-based assignment in Django and you are expected to submit below mentioned documentation in Zip file format:
  - **Django Project**
  - **Code explanation document** that explains:
    - **Summary** of each **script in Django Project**, How you implemented **OOP concepts** in your project?
    - **Deployment link** to your website. Ensure that it is working accurately.
- **Duration:** 4 weeks.
- **Grading scale:** The Norwegian grading system uses the graded scale A - F, where A is the best grade, E is the lowest pass grade and F is fail
- **Weighting:** 100% of the overall grade
- Start uploading your exam paper/file ahead of time, as it may take a long time to upload.
- Exam papers that are not handed in on Wiseflow by the specified time of the submission date will not proceed to assessment. No late solutions will be accepted. Your submitted documents will be checked for plagiarism.
- Before submitting, remember to check that all files can be opened and that every file is included. It may be a good idea to check the saved files on several machines before submitting them in Wiseflow.
- Incorrect file format or lacking documents may result in the submission not being passed or assessed.
- Show your work, and be creative, as partial credit will be given. You will be graded not only on the correctness of your answer but also on the clarity with which you express it.

Attachment: Grading Scale

The table below shows how the Universities Norway council (UHR) defines general, qualitative requirements for the corresponding letter grades. The criteria below should be used as a guideline in assigning grades for examinations unless other assessment criteria are explicitly provided for a particular assignment.

Letter grade	Descriptor	General, not subject-specific, description of assessment criteria
A	Outstanding	**Outstanding performance that clearly stands out.** Student has used OOP concepts and extremely good knowledge of Django Python web framework.
B	Very good	**Very strong performance.** The candidate displays good knowledge of learning outcomes .
C	Good	**A good performance that satisfies most assessment criteria.** The candidate displays a good knowledge in the most important areas of assessment.
D	Fair	**An acceptable performance with some clear deficiencies**. The candidate somewhat displays a level of sound knowledge of learnt programming concepts.
E	Sufficient	**A performance that only satisfies the minimum requirements.** The candidate displays a poor level of knowledge of learnt programming concepts.
F	Fail	**A performance that does not satisfy the most basic formal requirements.** The candidate lacks sound knowledge of learnt programming concepts.

Point total and grading scale [1]

Letter Grade	Corresponding numerical grade	Westerdals Grading scale
A	90-100	93 -100
B	80 – 89	78 – 92
C	60 - 79	59 - 77
D	50 - 59	51 - 58
E	40 - 49	40 - 50
F	0 - 39	0 - 39

Good luck!

Building A Blog and Vlog Application With Django

1. Your task is to build a **Blog and Vlog application** with Django that allows users to:
    a. create, edit, and delete
        i. textual,
        ii. image, and
        iii. video posts.

2. Follow the steps to **setting up a new project and your app.**
3. Now **create a model** for your website, where you will have the **following fields**:
    a. title (character field)
    b. author (character field)
    c. updated_on (date/time field)
    d. content (text field)
    e. created_on (date/time field)
    f. image (img field)
    g. video (video field)

4. Make required **migrations** of the **created model**.
5. Make required changes in **view.py, url.py and template files.**
6. Now **create your user login** details for **Django´s inbuilt admin interface.**
7. **Add your model to your admin interface**.
8. Now **create your blog and Vlog posts**. Click on the **Add** icon beside **Post** which will take you to another page where you can create a post. Fill out the respective forms in the admin interface and create your first-ever post.
9. **Start deploying your project using the Amazon Web Service (AWS) platform** and **submit** the **deployed link** in your code explanation document.