CA675: Cloud Technologies
Assignment 2: App Construction

School of Computing, Dublin City University

Timing

- Assignment explained (24th Oct Week 5)
- Groups finalized (by 31st Oct Week 6)
- Group Plan and Mid-Way Report (Mon 11th Nov – Week 8)
- Final Delivery (Fri 6th Dec – Week 11)

Submission opens on the 31st Oct

Worth 15% of the final mark

Deliverables

- Mid-way Report (max 500 words, approx. 2 pages) – due 11th Nov
  - The general idea and technologies you plan to use
  - The plan for the team roles and tasks
  - 20% of the Assignment 2

- Final Submission – Due 6th Dec
  - *Report* (max 3 pages)
    - *Suggestion: living document for the team (use googledoc or GitLab Wiki)*
  - Application/code
    - Source code (gitlab)
    - (optional) live endpoint
    - Approx. five minute demo video (screencast on youtube)
  - 70% of the Assignment 2 + 10% for personal contribution to a group.

A Group Project

- Groups finalized (by 31st Oct Week 6)
- A Group
  - 3 – 8 members with a Group Coordinator (GC).
  - GC inputs Group information on googledoc [1].
  - GC submits Deliverables on behalf of a group in Loop.
  - ~~GC gets extra 2 marks directly (<=15%).~~
  - Suggestion: Combine groups listed in the MCM practicum dashboard.

If you can not find a group, just input your information at [1] and list you as a single group by the deadline

[1] https://docs.google.com/spreadsheets/d/18wdqIWv9jiN9QLsNlNaynAsi5IU91PIbiUe2ArfU4X8/edit?usp=sharing

Requirements

- Uses Cloud Data Processing technology
- Includes a user interface (web/mobile)
- Uses a large public dataset, examples:
  - https://www.kaggle.com/datasets
  - https://data.london.gov.uk/
  - http://hadoopilluminated.com/hadoop_illuminated/Public_Bigdata_Sets.html
  - https://aws.amazon.com/public-datasets/
  - https://github.com/caesar0301/awesome-public-datasets
  - …

Final Report Document

- Introduction and motivation for the app and the choice of technologies
- What Data – source selection, preparation, cleaning
- What Processing – processing, querying, storing
- Related Work – any similar systems/app?
- Challenges and lessons learned
- Responsibility statement (which group member did what?)
  - Include specific tasks and general roles
  - You can refer to http://www.belbin.com/about/belbin-team-roles to identify roles
  - Include individual contribution from each member

Mid-way Report Assessment Guidelines (20%)

Criteria	0	5
idea	without clear target	with clear targets
To be used Technologies	not sound	sound
Team roles and tasks	not clear	clear
Report	poor or unstructured	good & structured

Final Submission Assessment Guidelines (70%)

Criteria	0-3	4-8	9-14	15-18 (max 70)
Design	Design not appropriate for the problem the app aims to solve	Design addresses the problem but could be improved in data preparation and processing	Design could be improved either in data preparation or in processing	Design is well thought, data and processing properly identified and used
Technology fit (including interface)	Selected technology not appropriate or missing	Technology is appropriate but not always correctly/fully used	Technology is mostly appropriate and correctly used but lacks some functionalities	Technology is fully appropriate and correctly used, all functionalities are present and accessible
Report	Incomplete and poorly structured	Structured but with missing key elements and/or errors	Mostly Complete and structured but with imprecisions	Complete, structured, professional
Video Walkthrough	Poor and unstructured	Unstructured but mostly complete	Mostly complete and structured	Complete, well structured and of professional quality

Group Individual Marking (10%)

- Marking of each member should be **UNANIMOUS** and documented in the section on “Responsibility statement” of the final report

Criteria	0	10
Member Contribution	Unsatisfactory	Satisfactory

Extra