

## **School of Computer Science**

COMP30830: Software Engineering Semester II **Assignment 2** On: 13/02/2023

Due: 21/04/2023 18:00

[45]

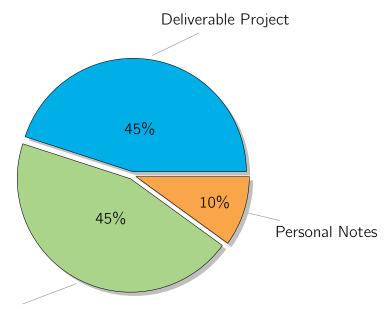
Q1: \_\_\_\_\_\_(100points)

This assignment describes the project work for COMP30830. Refer also to the lecture notes on Brightspace.

The goal of this project is to develop a web application to display occupancy and weather information for Dublin Bikes.

You will conduct the project in a team using the Scrum methodology.

The project should be submitted before the last week of the module. This is a <u>hard</u> deadline.



Project Management

- Deliverable Project <u>This is not an exhaustive list</u>, but contains the main elements of a working solution
  - 1. data collection through JCDecaux API
  - 2. data management/storage in RDS DB on AWS
  - 3. display bike stations on map
  - 4. flask web application (python)
  - 5. occupancy information

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- 6. weather information
- 7. interactivity (click, API request, handle response)
- 8. ML model for predicting occupancy based on weather patterns, trained on collected data
- 9. project served on a named host over the web on your EC2 instance
- 10. Github repo, including source code, logs, commit history, branches, etc
- (b) Project Management

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- 1. Design, planning notes and materials, discussion of Requirements, mockups, ...
- 2. Scrum project management (trello board, slack logs, google docs, etc)
- 3. Meeting notes (log of daily standup, notes from sprint reviews, retrospectives
- 4. feature selection/product backlog for each sprint  $(\times 4)$
- 5. burndown charts, (sprint and/or release) for each sprint  $(\times 4)$
- 6. managing deliverables, prototypes
- (c) Personal Notes (Individual Submission)

[10]

- 1. learning journal
- 2. personal review
- 3. retrospective of the project

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