

COMP39/9900 Computer Science/IT Capstone Project

School of Computer Science and Engineering, UNSW

Project Number: P15

Project Title: Workload Allocation Software for all Engineering Schools

Project Clients: Ellie Williams

Project Specializations: Software development; Security/Cyber Security.

Number of groups: 2

Background:

Currently, each school in Engineering has their own system of managing workload allocation for their academics and casual academics - they range from spreadsheets through to databases that require a strong level of SQL knowledge to maintain. It would be highly beneficial for all schools to have a single piece of software that is user friendly (ie doesn't require coding/SQL knowledge to enter information) that can also be personalised for each school (ie each school can enter their own workload formula to generate hours for their staff). It would need to hold a large amount of personal data (so it would need to be secure) but easy to enter and extract information.

Requirements and Scope:

It would be ideal if it could feed directly into CASTLE (the casual academic timesheet system) to generate teaching hours for casual academics, however this isn't vital, as long as there would be a way to export the data in csv format.

Software that is user-friendly, that can be maintained long term by UNSW IT support. Active data would not be shared during the development stage - dummy data will be provided for the establishment of the project.

Required Knowledge and skills:

Software development, understanding of cybersecurity.

Expected outcomes/deliverables:

Functional software, user guides.

Supervision:

Ellie Williams

Additional resources: