

Faculty of Applied Sciences  
Bachelor of Science in Computing

**COMP490 Final Year Project  
Weekly Status Report**Academic Year 2022/23

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| Parsons problem generator and solver | |
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| Project number: | 19 |
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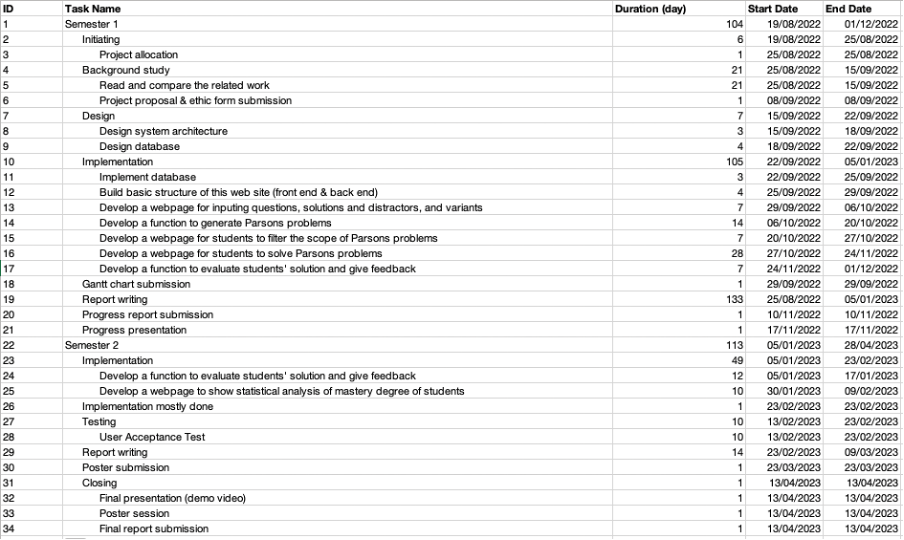
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# Preliminary Project Work Plan

In this section, the preliminary project work plan submitted in the Project Proposal is attached. Progress in Week 4 – Week 6 can be checked against this work plan.



# First semester W4-W14

Starting from Week 4 of the first semester, this document should be updated every week to show the progress. In each weekly status report, the accomplished tasks and the plan for the coming week should be reported so that the supervisor can monitor the progress.

## Week 4

Report Date: 14/09/2022

### Tasks done this week

I read two papers about Parsons Problem and I summarized some key points of these papers. By reading these papers, I found some gaps in the existing work and I picked up some new ideas about the specific use of Parsons Problem in the questions about data structures and algorithms.

### Plan for next week

I plan to design the system architecture and database in the next week. Besides, I plan to study the specific question types in Data Structures and Algorithms to expand the use of Parsons Problem in Data Structures and Algorithms.

## Week 5

Report Date: 21/09/2022

### Tasks done this week

I reviewed specific data structures and algorithms questions. Besides, I consolidated a paragraph to describe the discussion with the supervisor last week about using different algorithms in distractors. Furthermore, I built the basic structure of the front end. In the end, I designed the database.

### Plan for next week

I plan to implement the database and build the basic structure of this website. Besides, I plan to read more papers to get new ideas and enhance chapter 2 and chapter 3. Finally, I plan to draw the Gantt Chart.

## Week 6

Report Date: 29/09/2022

### Tasks done this week

I finished the Gantt Chart. Besides, I improved the old database design and I implemented database. Finally, I developed basic functions (add, edit, get, remove) of every entity.

### Plan for next week

I plan to develop a webpage for inputting questions, solutions, distractors, variants and etc. Besides, I plan to consolidate paragraphs to describe designing ideas of manipulating data structure problems and recursion problems. And I plan to consolidate paragraphs for database design. Finally, I plan to read more papers to get new ideas and enhance chapter 2 and chapter 3.

I plan to read the textbook “Data Structures and Algorithms in Python” in detail to find more ideas in the following aspects: the difference between the questions of introductory programming course and the Data Structures and Algorithms course, the limitation of

## Gantt Chart

This section shows the first version of the Gantt Chart, as submitted in Week 6. It includes detail schedule for the project. The Gantt chart sets up the overall schedule for the whole project. Therefore, from Week 7 of the first semester onwards, progress should be checked with the Gantt chart.

The schedule in the Gantt Chart may be revised during the course of the project. This is necessary, for example, in case of risk mitigation. It is necessary to include the updated Gantt chart in the Weekly Status Report in a section like this one. Explain the reasons for schedule revision. It is also necessary to adopt a sound method of version control to avoid potential confusion regarding which version is currently being used.

Modified Date: 29/09/2022

Gantt Chart is included below



## Week 7

Report Date: 06/10/2022

### Tasks done this week

Analyse the question types in data structure and algorithm in detail. Analyse the limitation of previous work and design new way to use the Parsons problem. Write a draft report about the analysis.

### Progress check against Gantt chart

Redesign database according to new design. I plan to develop a webpage for inputting questions, solutions, distractors, variants and etc. Besides, I plan to consolidate paragraphs to describe designing ideas of manipulating data structure problems and recursion problems.



### Plan for next week

List the tasks you plan to do in the next week. In case you’re behind schedule, describe what you will do to catch up.

## Week 8 (repeat up to Week 14)

Report Date: dd/mm/yyyy

### Tasks done this week

List what tasks you’ve accomplished in this week.

### Progress check against Gantt chart

Use the Gantt chart to evaluate your progress.



### Plan for next week

List the tasks you plan to do in the next week. In case you’re behind schedule, describe what you will do to catch up.

# Second semester W1-W13

## Week 1

Report Date: dd/mm/yyyy

### Tasks done this week

List what tasks you’ve accomplished in this week.

### Progress check against Gantt chart

Use the Gantt chart to evaluate your progress.



### Plan for next week

List the tasks you plan to do in the next week. In case you’re behind schedule, describe what you will do to catch up.

## Week 2 (repeat up to Week 12)

Report Date: dd/mm/yyyy

### Tasks done this week

List what tasks you’ve accomplished in this week.

### Progress check against Gantt chart

Use the Gantt chart to evaluate your progress.



### Plan for next week

List the tasks you plan to do in the next week. In case you’re behind schedule, describe what you will do to catch up.

## Week 13 (Conclusion)

Report Date: dd/mm/yyyy

### Tasks done this week

List what tasks you’ve accomplished in this week.

### Progress check against Gantt chart

Use the Gantt chart to evaluate your progress.

