

Term Project Evaluation
CS310 Advanced Data Structures and Algorithms
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Instructor: Prof. Wei Ding
TA: Binh Tran

Term Project grading is calculated in the following manner:

1. The evaluation is divided into three phases:

- **Project Phase:** In this phase the team score in the project is recorded.
- **Personal Evaluation Phase:** This phase deals with the personal support of each of the members in the team while doing the project. This will be done after the project is finished. The criteria for the personal evaluation is as follows from *highly effective* level to *ineffective level*:
 1. *Understanding the project and taking the initiative.*
 2. *Decision Making* (from collaborative down to unilateral)
 3. *Cooperation* (members help others out, members do only own work)
 4. *Ability to handle conflict or differences* (explore and solve conflicts, avoid or ignore)
 5. *Balance of participation* (balance workload, a few do most of the work)
 6. *Focus on Schedule*
 7. *Communication*
 8. *Support and Team spirit* (appreciation, no appreciation)

Each of you will evaluate your teammates. For example, you will be evaluated by 2 other team members in a 3-person team. Individual personal evaluation score is confidential, but you will be notified your overall score on personal evaluation. During the personal evaluation phase, you should consider your team members contributions in the following parts:

1. Project design
2. Code implementation
3. Project testing
4. Project documentation
5. Term project report writing
6. Term project presentation

2. Percentage weight for each phase:

Project Phase	50%.
Personal Evaluation Phase	50%.

3. Calculation process for the final grade:

The terms used are as follows:

Project phase percentage --- project%.

Personal Evaluation Phase --- personal%.

Term project score --- overall project.

Personal evaluation --- overall personal.

Maximum points in term project --- project max.

Maximum points in personal evaluation --- personal max.

Final points --- Final grade.

$$\text{Final grade} = \{(\text{overall project/project max}) * (\text{project\%})\} + \\ \{(\text{overall personal/personal max}) * (\text{personal\%})\} +$$

The final grade will be out of 100 points.

4. An example implementation of the above process:

There is a team with three members X, Y, Z.

Let the project maximum score be 100 points (actual score can be different).

Let the personal evaluation have a maximum of 100 points (actual score can be different).

Assume the team scored 100 points, the full mark, in the project.

Project score for each of the member is as follows (they will get same scores in this phase):

Member X: 100

Member Y: 100

Member Z: 100

Personal evaluation score for each of the member is as follows:

Member X: 100

Member Y: 70

Member Z: 50

Score of Member X:

Overall project score: 100

Overall personal evaluation score: 100

$$\begin{aligned}\text{Final grade}(X) &= \{(100/100)*50\} + \{(100/100)*50\} \\ &= 50+50=\mathbf{100} \text{ out of 100 points}\end{aligned}$$

Score of Member Y:

Overall project score: 100

Overall personal evaluation score: 70

$$\begin{aligned}\text{Final grade}(Y) &= \{(100/100)*50\} + \{(70/100)*50\} \\ &= 50+35 = \mathbf{85} \text{ out of 100 points}\end{aligned}$$

Score of Member Z:

Overall project score: 100

Overall personal evaluation score: 25

$$\begin{aligned}\text{Final grade}(Z) &= \{(100/100)*50\} + \{(50/100)*50\} \\ &= 50+25= \mathbf{75} \text{ out of 100 points}\end{aligned}$$