

# Transparency of Scoring Algorithms

## Stop and think

Recognize the critical need for transparency in automated scoring systems to ensure trust and fairness. Transparency is a quality of corporate social responsibility communication that enhances the relationship between client and the development team. [1]

## Clarify goals

The main goal is to make the algorithms is transparency for all stakeholder, users and also maybe the students(testers). and ensure it aligns with manual scoring practices.

## Determine known and unknown facts

Known facts	Unknown facts
Client is currently unclear about how the automated scoring system works.	The extent to which stakeholders will need to understand the system for their purposes.

## Develop options

**Option 1:** Publish the descriptions of the algorithm and maintain in the system and allow all user can access.

**Option 2:** Create detailed documentation of the scoring algorithms for internal use to maintain system understanding among team members.

## Consider foreseeable results of the options

**Option 1:** This will build trust between users and the system. But may violate the privacy of data.

**Option 2:** This might improve internal clarity and troubleshooting ability but does not address stakeholder concerns.

## Refer to a code of ethics for guidance of areas to be mindful of

Referring to EA ethics 3.3, when developing, we should make reasonable efforts to communicate honestly and effectively to all stakeholders. [2]

## Decide the course of action and take it

Organise the internal document to maintain system understanding among team members.

Organise informational sessions for users and stakeholders.

Publish detailed descriptions of the scoring algorithms and maintain it in the system.

## Reference

[1] Fernandez-Feijoo, B., Romero, S., & Ruiz, S. (2014). Effect of stakeholders' pressure on transparency of sustainability reports within the GRI framework. *Journal of business ethics*, 122, 53-63.

[2] Engineers Australia. (2022). Code of Ethics and Guidelines on Professional Conduct. <https://www.engineersaustralia.org.au/sites/default/files/2022-08/code-ethics-guidelines-professional-conduct-2022.pdf>

