

Using ChatGPT to discover conceptual classes in object-oriented modelling

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Role:

Educator

My idea

My idea: Using ChatGPT to discover conceptual classes in UML diagram class.

What I aim to achieve

Students have difficulties discovering conceptual classes in their first UML class diagrams. ChatGPT can give a list of conceptual classes from a natural language text. This list of classes might be a first draft for developing a class diagram.

Institution/organisation:

University of Salamanca

Context:

Software Engineering

Tool(s) used:

ChatGPT

Where the inspiration comes from:

ChatGPT can generate code for different programming languages, and it also can generate XMI specifications, but due to the ambiguous character of a natural language specification, the generated specification is not valid as the final model. However, it generates a first list of candidate classes with interesting explanations that might be useful to novel students as a way to think about the final solution, with a critical thinking orientation because the candidate list might not be the same as they could think.



Ai-generated high quality [digital art](#) of artificial intelligence modelling a UML class diagram.