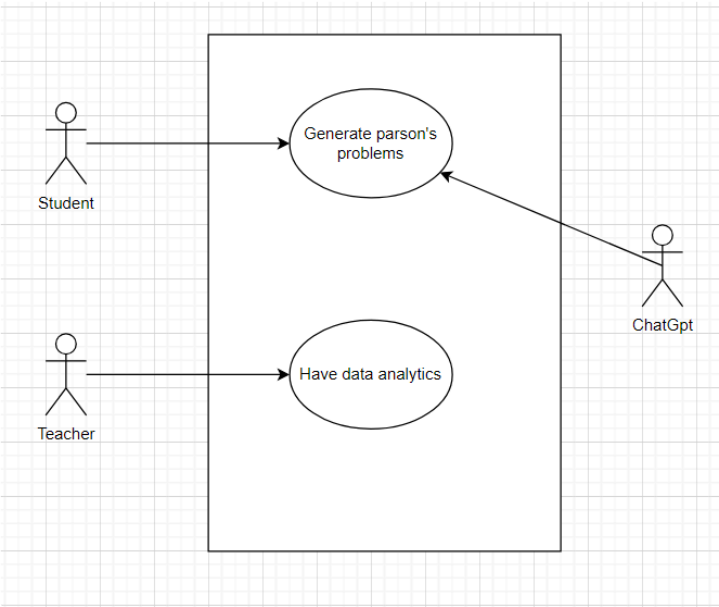


User Stories and Use Case Diagram - Prompt Generation

Use Case Diagram



User Stories:

As a <role>	I want to do <something>	To achieve <something>	Solution	Priority
Administrator	Add in new topics and context in the future.	To have more variety.	Ensure the code is well documented for the ease of adding new things. Use good coding practices (eg GRASP principles) to keep code open to extension	Medium
Administrator	View data analytics	Track student progress	Track and store data from user interactions	High
Student	Generate parsons problem from an LLM customised with the given input parameters.	Practice my programming abilities	Configure prompts to take input parameters for a LLM to generate problems.	High

Student	Receive problems in a timely fashion	Practice my programming abilities	Continually test to ensure it returns code within 5 seconds. Store backup prompts in case of repeated failure	Medium Low
Student	Receive a correct Parsons' Problem	Practice my programming abilities	Check problems for topic, context and correct syntax after generation	High
Student	Regenerate unique Parson's Problems from the same input parameters	Practice my programming abilities	Use the same chat log so LLM knows what problems it generated previously or store previously generated	High