CLAIMS

1. A code generation platform configured to:

analyse a series of requirements, written in natural language in Agile format, whose implementation requires determining how data is to be used to achieve one or more objectives ;

reiterate, using artificial intelligence, generation and display of one or more interim statements, each facilitating breakdown of the requirements, until arriving at a set of tasks, each setting out how data called by one or more variables is manipulated,

simultaneously analyse all the tasks to deploy a program script to realise the one or more objectives.

2. The code generation platform of claim 1, wherein each of the interim statements provides a recommendation for user input.

3. The code generation platform of claim 1 or 2, wherein the platform is further configured to determine whether a current iteration is final by testing whether the program script is generatable.

4. The code generation platform of any one of the preceding claims, wherein the one or more interim statements of a current iteration are generated based on one or more of: the objectives inferred from the analysis of the series of requirements; and selected one or more of the interim statements generated from an earlier iteration.

5. The code generation platform of claim 4, wherein the set of tasks is based on the selected one or more interim statements generated across the reiteration.

6. The code generation platform of any one of the preceding claims, wherein the platform is further configured to await selection of the one or more interim statements of a current iteration before generating the one or more interim statements of a subsequent iteration.

7. The code generation platform of any one of the preceding claims, wherein the platform is further configured to allow editing of one or more of: the one or more interim statements; and the set of tasks.

8. The code generation platform of any one of the preceding claims, wherein the program script is generated from code templates on which syntax of the set of tasks maps, the code templates being stored in a repository.

9. The code generation platform of claim 8, wherein the platform is further configured to display, for each of the set of tasks, a confidence level of a match to a code template from the repository.

10. The code generation platform of claim 8 or 9, wherein the platform is further configured to perform the mapping using a machine learning technique.

11. The code generation platform of claims 8 to 10, wherein the platform is further configured to, for each of the code templates on which a task maps, replace each argument in the code template with a corresponding variable from the task that maps.

12. The code generation platform of any one of the preceding claims, wherein the platform is further configured to use an artificial intelligence engine to generate the set of tasks.

13. The code generation platform of claim 12, wherein the artificial intelligence engine is based on keyword extraction and inference using one or more of NLP, k-nearest neighbours (KNN) and GNN techniques.

14. The code generation platform of claim 12 or 13, wherein in addition to the artificial intelligence engine, the platform is further configured to use an external artificial intelligence engine in response to determining the need to tap externally hosted data to generate the one or more interim statements and the set of tasks.

15. The code generation platform of claims 12 to 14, where the artificial intelligence engine is configured to generate the more interim statements and the set of tasks based on data on which the platform has been trained to deploy program scripts for similar objectives.

16. The code generation platform of any one of the preceding claims, wherein generated code for the program script is incorporable with separate code, so that when the generated code and the separate code are compiled create one or more of the following to realise the one or more objectives: an API, a batch scheduler and a user activated scheduler.

17. The code generation platform of claim 16, wherein the API is configured to accept user input for the task.

18. The code generation platform of any one of the preceding claims, wherein the platform is configured to introduce indentation into blocks of generated code for the program script in response to

detection of presence of functions or loops in the set of tasks to match the required syntax of the generated code.

19. The code generation platform of any one of the preceding claims, wherein the one or more interim statements and the set of tasks are in natural language in Agile format.

20. The code generation platform of any one of the preceding claims, wherein the series of requirements is in the form of epic statements and the set of tasks is in the form of user stories.