**Course Project Contribution Agreement**

This agreement is made between the student(s) listed below to document each team member’s contributions to the course project. It outlines the individual roles, contributions and involvement of each student in the project.

**Project Title:** Pharmaceutical Risk Interaction System Management

**Team Member:** Celian, Sebastian, Isac, Clement, Mahmut

**Description of Contributions**:

By signing this contract, each team member agrees to the following contributions to the project:

**Mahmut**

* Organized meetings & GitHub issues.
* Fixed Workflow Diagram. Defined Project Milestones. Explored to-be-used project tools. Created SPARQL queries that accomplish the following tasks:
  + Get the English drug label given the internationally set drug id.
  + Get All Interacting Drugs with respect to another Drug (e.g., Zopiclone)
  + Get Side Effects of a Drug (e.g., Zopiclone)
  + Get all instances of "medicines" in the WikiData Knowledge Base.
  + Get the count of all medicines within WikiData.
  + Find Chemical Substance used as Medicine through Query by name.
  + Get Best Matched Meds based on Wrongly Type Input Medication.
    - Tools: Python Module “*fuzzywuzzy*”
  + Saves the interactions between proposed medicine and the ones it has a significant reaction with creating side effects.
* Created a Pinecone index.
  + Embedded all medications and upserted them into the Pinecone database, within a predefined namespace.
  + Queried the namespace through the use of similarity search, works.
* Built Chainlit basic interface and seamlessly integrated it with newly release Gemini 2.0 through API calls.
* Built Chainlit basic interface and seamlessly integrated it with local models phi3 and llama3.2:1b through API calls.
* Created a new workflow diagram.
* Created a Custom Logo for our Application, both for the dark and light color setting in our UI. Integrated it with the chainlit application, works.
* Created a more advanced and intuitive UI, played with welcome text, user prompts, the whole application integration from beginning to end. Including font size, colors, etc.

**Isac**

* Create a Logo for our Project.
* Fixed Workflow Diagram. Defined Project Milestones. Explored to-be-used project tools.

**Sebastian**

* Fixed Workflow Diagram. Defined Project Milestones. Explored to-be-used project tools.
* Created a query for getting drug interaction & its side effects, results are stored in a separate Json file.

**Celian**

**Clement**

**Points of Agreement**

* Each student agrees to contribute equally to both the design/development of the system
* Each student must ask other team members for assistance if they get stuck.
* Each student shall attend all meetings unless a valid excuse is given.
* Each student shall contribute deliverables to all GitHub issues they are assigned.

**Project Owner**: Mahmut

**Scrum Master**: Sebastian

**Development Team**: Celian, Sebastian, Isac, Clement, Mahmut

**Project Meeting Log**

As part of this contract, the project team is required to document the project meetings organized, the members who attended, and the topic(s) discussed. Will be submitted through an attached excel file.

**Acknowledgment of Accountability:**

By signing this contract, each undersigned student acknowledges and agrees to the following:

* **Balanced Contributions**: All students contribute fairly and equitably to the project. We have completed our assigned tasks on time and have actively contributed to the project.
* **Project Meetings**: Each student attended and participated in project meetings. We have documented all meetings attended and tracked the action items assigned to us.
* **Timeliness and Integrity**: We confirm that we have met all deadlines for our tasks, contributed fairly to the project, and ensured all work is our own. We understand that failure to meet these expectations may affect our individual grades or the overall project grade.

**Signatures:**

By signing below, we confirm that the information provided in this contract is accurate and that each of us has contributed as described above. This agreement is made in good faith to ensure accountability for each team member's role in the project.

Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_