**Simulation of CHAT GPT – Future Assistant**

**GROUP MEMBER:**

Faruk Kardovic : faruk.kardovic@studio.unibo.it

**DESCRIPTION:**

The project I propose is a simulation of a Chat GPT named Future Assistant . The agent in my simulation is a text prompt who will be able to answer the questions asked by customer. Future Assistant is an agent designed as a personal assistant that will make everyday tasks and obtaining information easier for future users. Currently, four functionalities have been implemented, and English and Bosnian languages are supported, but the possibilities of this agent are unlimited and in the future it is planned to develop new functionalities according to the needs of target users. Technically, this agent is a generic LLM that is the basis of low-code platforms where the reusability of such applications is very high.

**Agent functionalities:**

* Weather forecast (available languages: eng)

Weather forecasting is implemented within get\_weather function.

The user asks the prompt „What is the weather for {City}“ . The LLM then processes the question and sends it to API. The API to get real time weather report used is api.open-meteo.com . The response is received from the API and then displayed to the user.

* Calculator (available languages: bos, eng)

This functionality is implemented within the calculate() function.

It supports all the basic operations and through OpenAI the linguistic ability to use it in two languages is provided.

* Search for news from the Internet (available languages: bos, eng)

This functionality is implemented in the get\_news() function.

The function is directly connected to NewsAPI to have access to the latest news at any time. Due to the OpenAI API, the language ability to ask questions in multiple languages as well as get answers is provided.

* Calculator for BMI (body mass index)

The functionality is implemented in calculate\_bmi(weight\_kg: float, height\_cm: float, age: int = None)

The application has a option to calculate the body mass index when weight, height and age are provided through the UI.

The environment is represented by the chat prompt.

**TECHNICAL ASPECTS:**

The technologies that I will implement are:

* Python – the main programing language
* Python libraries – libraries of the main programing language
* OpenAI – API to provide language processing
* Flask - WSGI web application framework
* Javascript – language used
* Css – language used for making stylish changes
* CSRF Protect - Cross-site request forgery (also known as CSRF) is a web security feature that will prevent an attacker to induce users to perform actions that they do not intend to perform.
* Datasets accessible via open/paid APIs from the internet.

**GOALS**

* Develop an agent that is useful and successfully do the things specified