Data Science Practical Challenge

Your primary objective is to develop an appointment booking agent that can have a natural conversation with a human. The already booked slots are represented in the *appointments.csv.* After the user booked an appointment it should be reflected in the file so the next time the slot cannot be booked again.

# Implementation Guidelines

* **Simplicity is key:** Focus on building a straight forward agent to solve this problem. While we appreciate innovative approaches, our main interest lies in your problem-

solving methodology. Remember, we’re looking for a balance between fun and function in this task!

* **Model and Library Choice:** Feel free to use any libraries and models you prefer.
* **Simple Server:** While you should be able to focus on the AI parts in our organization we still need to interface with your solutions. Wrap your agent in a simple web server that exposes an */chat* post endpoint where you will always get the latest message. You can use the provided website to chat with your agent. You can find the API definition in *api.yml.*  
    
   —-- OR —-
* **Console UI:** Provide a small console loop that allows a user to chat with your agent and book an appointment.
* **Relativity:** Remember that user will most likely answer in relative times. *Do you have some time later today?* or *Is there a timeslot free next week?*
* **Security:** Do not leak information about other people that booked an appointment.
* **Requirements File**: Please include a requirements.txt file to facilitate seamless execution of your classifier on our systems.
* **Enjoy the Process:** We encourage you to have fun with this task and

explore your creativity!

## ***Submission:***

* Include a README file in your repository with instructions on how to run the project.
* Record a video of a brief explanation of your solution in english, detailing any challenges faced during the test, and discuss the improvements you made, explaining the reasons behind them and how you implemented them.
* Share the link to your GitHub repository, the hosted Backend Page, and the video explanation via email.
* Video must contain:
  + Introduction: Briefly introduce yourself
  + Problem & Approach: Explain the problem and your approach to solving it.
  + Demonstration: Showcase the implemented solution and its features.
  + Challenges & Improvements: Discuss any challenges faced and improvements made.
  + Conclusion & Why Choose You: Summarize your experience, main takeaways, and reasons why you are the best choice for the role.

**We are excited to see your approach to this challenge and how you**

**tackle the intricacies of practical data science. Good luck!**