Dress Up Social Application

Overview
The user creates a virtual character (2D or 3D) that they can dress up and interact with. The character shall come up with basic conversation topics such as commenting on the weather and recent news around your area. The program shall also ask the user questions such as “what is your favorite color” that it stores in a database. It shall remark on these stored answers in future conversations.

API
The Dress Up Social Application should use two main APIs: weather and news to create conversations with the user. For instance, the character would say “Did you know the weather right now is 53 degrees and cloudy in your area. Make sure to dress warmly.” It should also recount the latest news in your area by reading the headlines of new articles. We could experiment with text-to-speech APIs to customize the voice of the character.

Third-Party Authentication
The user will be able to login into their accounts using two methods: a username and password, or gmail as the third-party authentication.

Utilize Database
A relational database such as The Oracle or MySQL will be used to store user information. Such information may include but is not limited to:

- Username & password (or account from third party authentication)
- Information stored from each user (connected to their username)
- Current customizations of the character

Decoupled Architecture
The application will have a decoupled architecture, with JavaScript used on the front end and (Python/Java on the back end?)

Back Up Proposal
Outfit Planner
Program that uses APIs and information taken from the user to give a list of outfit options for the user to wear.
API Information:

- Weather (cold means heavier clothes, rain means hoodie necessary)
- Holidays (for instance more orange during Halloween/Autumn)

User information:

- Current wardrobe
- Favorite colors
- Style preference (mismatch colors, active wear, professional wear)

The app can:

- create outfits from the current wardrobe
- Suggest new pieces of clothing based on previous outfits chosen by user
- Become more reliable with more user interaction (track which outfits are often chosen by user and which are not)

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