

Milestone III

In this milestone, we completed the **HEPIK** chatbot as designed. The chatbot is able to:

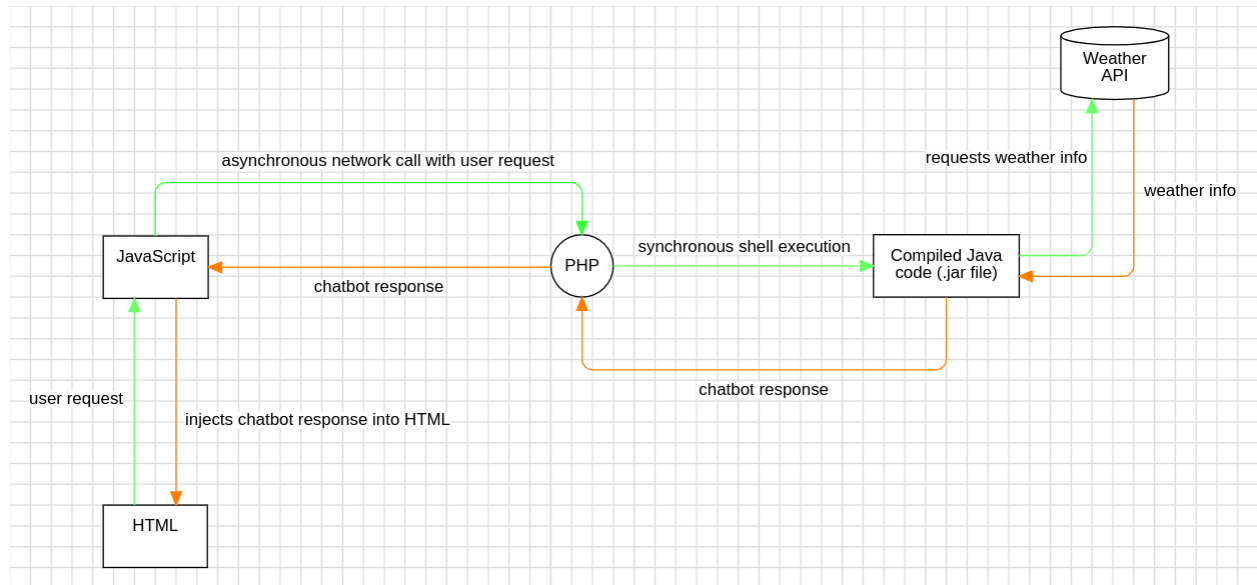
1. Fetch geolocation information and weather forecast efficiently.
2. Interpret the weather forecast and make simple clothing suggestions.
3. Display the results via HTML as the graphical interface.

We all rotated to make changes to existing code and understand how each independent class works to help the chatbot make proper suggestions.

Key achievements

1. Implementation of the user journey in **PHP**. This ensured a relatively fast “ping-pong” behaviour between the user using **HTML** via **Javascript** with the chatbot hosted on **PHP**.
2. Successful implementation of the **PHP to Java** bridge and vice versa ensuring type safety and fault tolerance.
3. Refactoring the **API** service class.
4. Refactoring the **ClothingSuggestionManager** which was further simplified to also interpret the weather.
5. Strengthened our code quality by adding more fine grained tests that ensure we fetch the correct data from the API.
6. Simplified the user interface.

Ultimately, this milestone taught us how versatile each language can be. We were able to rely on the strengths of each language without compromising on the code quality. Our architecture enabled us to build and test each module of the chatbot individually before integrating them seamlessly.



HEPIK bot as implemented. *Realised as designed* ✓