Iterations coding AI learning app

Initial version

I started coding in React Native, I did some research and then I came to the conclusion that I had to build 2 apps. One app for iOS and one for Android. I had a hard time with implementing Ai and databases for the app so I went and asked for feedback from the teacher.
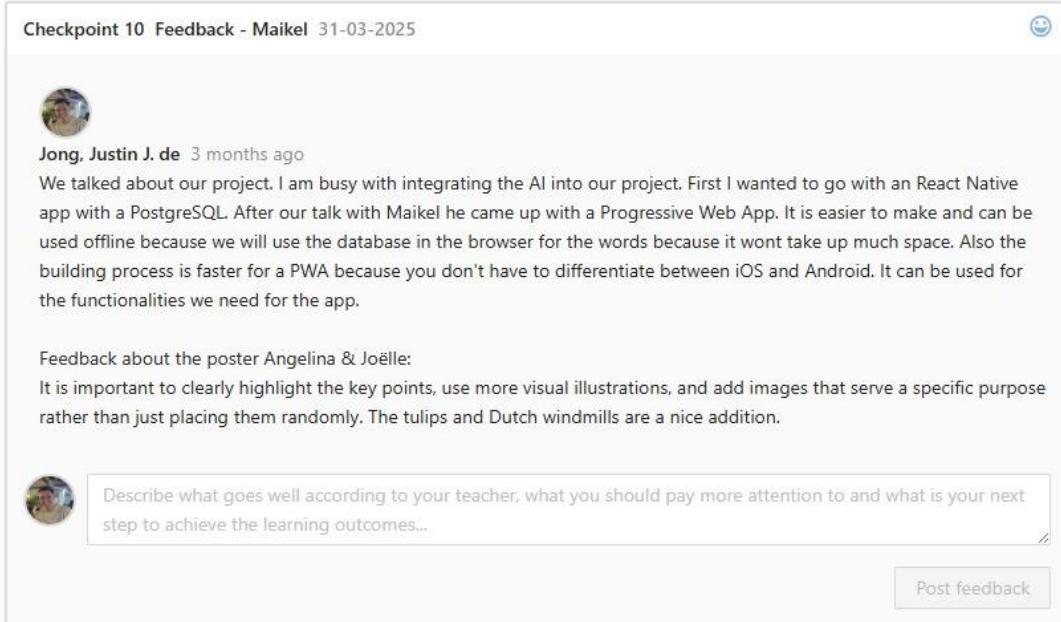
Checkpoint 10 Feedback - Maikel 31-03-2025

Jong, Justin J. de 3 months ago

We talked about our project. I am busy with integrating the AI into our project. First I wanted to go with an React Native app with a PostgreSQL. After our talk with Maikel he came up with a Progressive Web App. It is easier to make and can be used offline because we will use the database in the browser for the words because it wont take up much space. Also the building process is faster for a PWA because you don't have to differentiate between iOS and Android. It can be used for the functionalities we need for the app.

Feedback about the poster Angelina & Joëlle:
It is important to clearly highlight the key points, use more visual illustrations, and add images that serve a specific purpose rather than just placing them randomly. The tulips and Dutch windmills are a nice addition.

Describe what goes well according to your teacher, what you should pay more attention to and what is your next step to achieve the learning outcomes...

Post feedback

What I plan to do

- Change from React Native to PWA (progressive web app)
- Switch from PostgreSQL to build in browser database for offline use

Second version

For the second version, I switched from React Native to PWA. I did this because it will be easier to make and can be used offline. I then switched over to builing in browser database because it can be used offline.
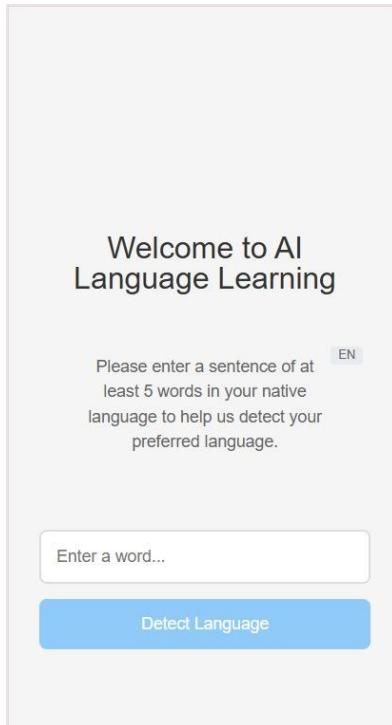
Figure 1 Second version
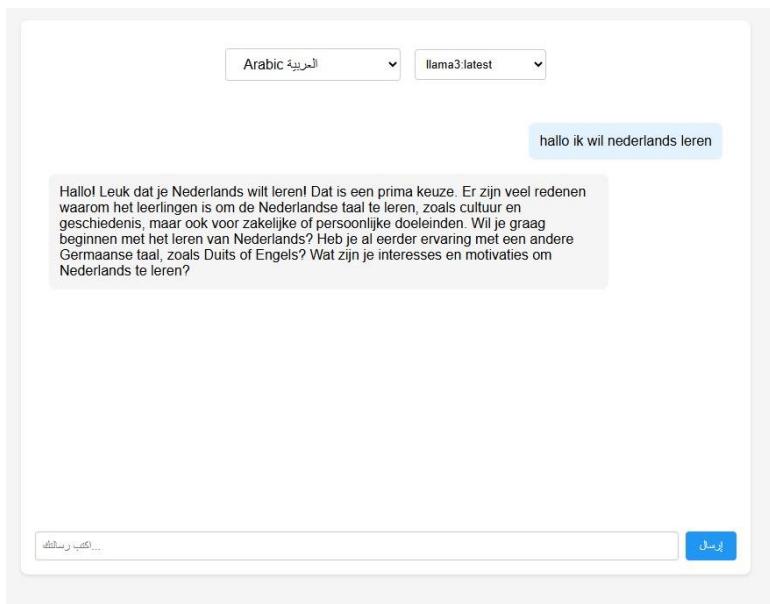
Figure 2 Second version

Feedback second version

Users can't read that because they often don't speak any languages other than their native language. The response that the Ai gives is way too long.

What I plan to do

- Make a rotating section that translates to other languages that are available in the app.
- Make it so the Ai is responding shorter and make it translate them.

Final version

I made it so that the the responses of the Ai is way shorter and easier to understand for the user. I also made the language of the text change to different languages that are available on the app. This makes it so it is understandable for every user.
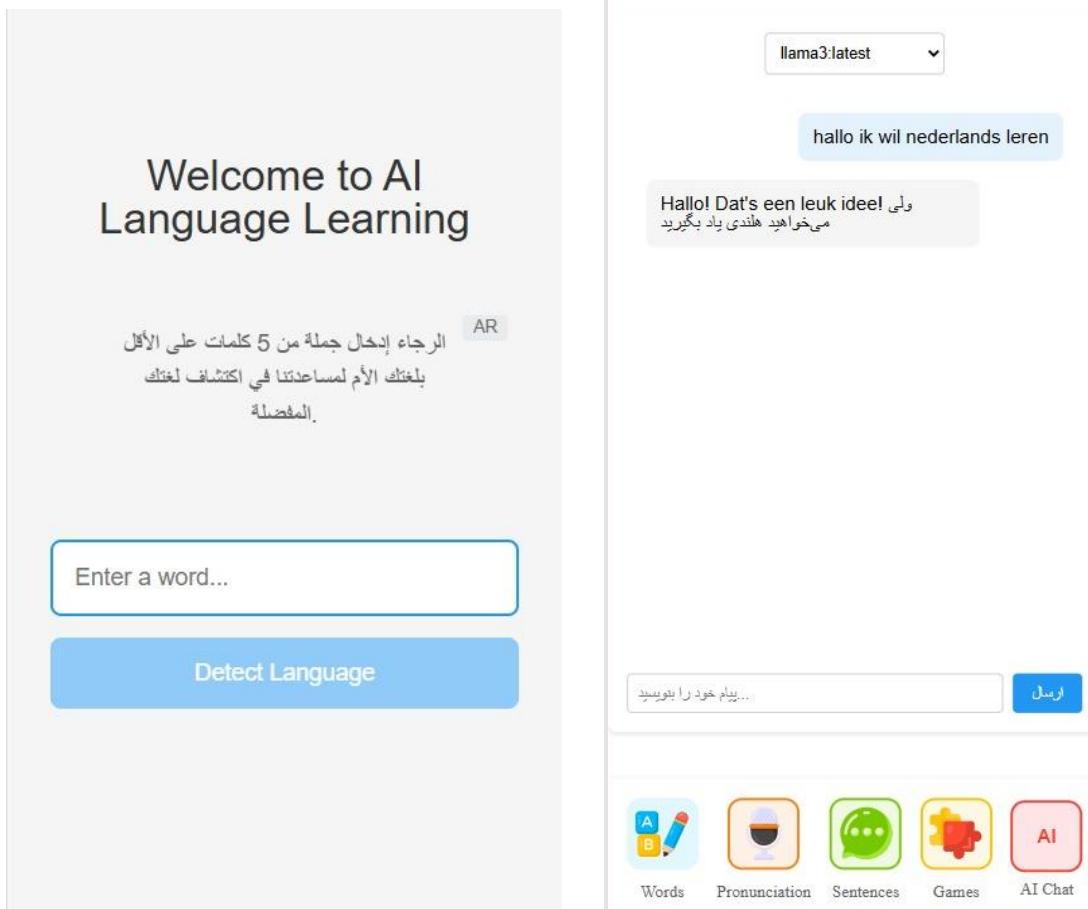

Figure 3 and 4 Final version

Reflection

In this project, I started with React Native but quickly realized it wasn't efficient for cross-platform development. After feedback, I switched to a PWA and used a browser-based database for offline use. I also improved the AI responses by making them shorter and adding automatic translation features.

This process helped me learn how to adapt to the right tool, choose the right tech stack and make AI output more user-friendly. It also improved my problem-solving and coding skills in a real-world context.