

## *Summary in english*

### *Development of an application for learning the positions of fetuses at the time of childbirth.*

#### *Les informations d'identification du document*

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This project's objective is to create an application that would allow midwifery students to practice relating different representations of a baby's position at birth. It was proposed to us by Ms. Vadcard, a researcher at the LaRAC laboratory in partnership with the Grenoble Midwifery School.

To carry out this project, we chose to use JavaScript, React, Tailwind CSS, and PostgreSQL technologies, the last one to store data in a database.

Before we could start developing, we divided the work into different tasks which we distributed among ourselves. To help us in this step, we created a KANBAN board.

During development, we divided the structure of our application into two parts: a frontend responsible for all interactions with users, and a backend which manages requests made by the frontend to read or modify the database.

The application includes a connection system which provides access to three different sets of services. A student service that offers exercises to practice manipulating representations of midwifery. Another service for teachers allowing them to see statistics on student results in order to identify possible difficulties in learning. It is also possible for teachers to grant teaching rights to student users. The last service is the administrator service, which gives access to all the previous functionalities as well as the ability to grant administrator rights to other users.

We encountered various difficulties during this project. Some were technical, involving learning and using technologies that were not yet familiar to us, and others were situational, such as obtaining images for which we have the rights and obtaining a server to host our application.

Some issues, like the latter, have not yet been resolved. However, this project allowed us to gain experience and knowledge in web development, project organization, data architecture planning, and the importance of thorough planning before starting to code.