**Discussion**

In this project, we have learned lots of quite useful new technology and gained valuable experience for operating on play frameworks.

Technologies we have used include but not limit to Hibernate, AJAX, Docker, MySQL, Play Framework and so on. Below is a detailed introduction to each technology.

1. **Docker Container**

First new technology we have used is Docker Container. We use Docker to build our running environment to improve reusability and efficiency, which is quite efficient as we did not need to reconfigure the running environment every time. Use of Docker significantly simplify our development environment configuration. With Docker Container, we are possible to set highly reusable developing environment for our project.

**2. Play Framework**

We also used Play Framework in our implementation of climate services. Play framework is a high velocity web framework for Java and Scala. Play is based on a lightweight, stateless, web-friendly architecture, providing predictable and minimal resource consumption for highly-scalable applications. It helps us develop front-end quickly and efficiently.

**3. Hibernate and MySQL**

Hibernate is a Object/Relational Mapping (ORM) framework. Hibernate and MySQL database are selected to build back-end of our service. It is an extremely helpful framework as we can operate on our database directly with Java. Hibernate maps tables of MySQL database to java classes and helps us develop back-end efficiently.

**4. Ajax**

With Ajax, we avoid reloading the whole web page when implementing front-end functions. It is useful in the implementation of “@” (mention a specific friend) and “#” (mention a special service) functions. It is used in our implementation of front-end functions and change our application significantly.