Specification Requirements

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We want to set up a **client-server web application** similar in terms of functionality to that of "Tashilat" while respecting the architecture of **micro-services** in JEE.

Regarding the **functional requirements**, our application contains a home page where the three possible options are listed: **money transfer**, **telephone recharge**, **water and electricity payment**. In addition, there is a **visitor counter** for each page. Also, after each operation performed the user will be notified. In addition, our application offers the possibility to perform **CRUD (create, read, update, and delete)** operations for each feature.

Each **payment agent** has a **password** and a **login** that is given to him at **registration**. After choosing an **option** (clicking on the link for example), the user will be directed to the requested page where he is supposed to provide the necessary information by filling in the form.

Let's take the case of **money transfer**. So, we distinguish here two cases: **receiving** or **sending** money. For the sending it is supposed to provide the **CIN (**national ID card**)** and the recipient's **CIN** and the **amount** of money. Afterwards, clicking on the sending a **unique code** will be generated and this code must be used by the recipient to retrieve the amount of money by providing it in addition to his CIN.

In the case of the **phone recharge**, he must choose the **telecom operator** and then his **phone number** knowing that there is a predefined list of telephone numbers and the amount of money.

For the case of **water and electricity payment**, he is supposed to provide his **contract number** which is unique, the **agency** and **months**.

Our application is created to meet, first of all, the **functional requirements** of the enterprise as well as **technical requirements** such as **performance** (response time, avoid the problem of load build-up and fault tolerance), as well as, **maintenance** our application must be **closed to modification and open to extensions**. In addition, **security** and **distribution** etc.... Of course, in order to meet these requirements, we are obliged to go through the experience of others, namely the **frameworks**.

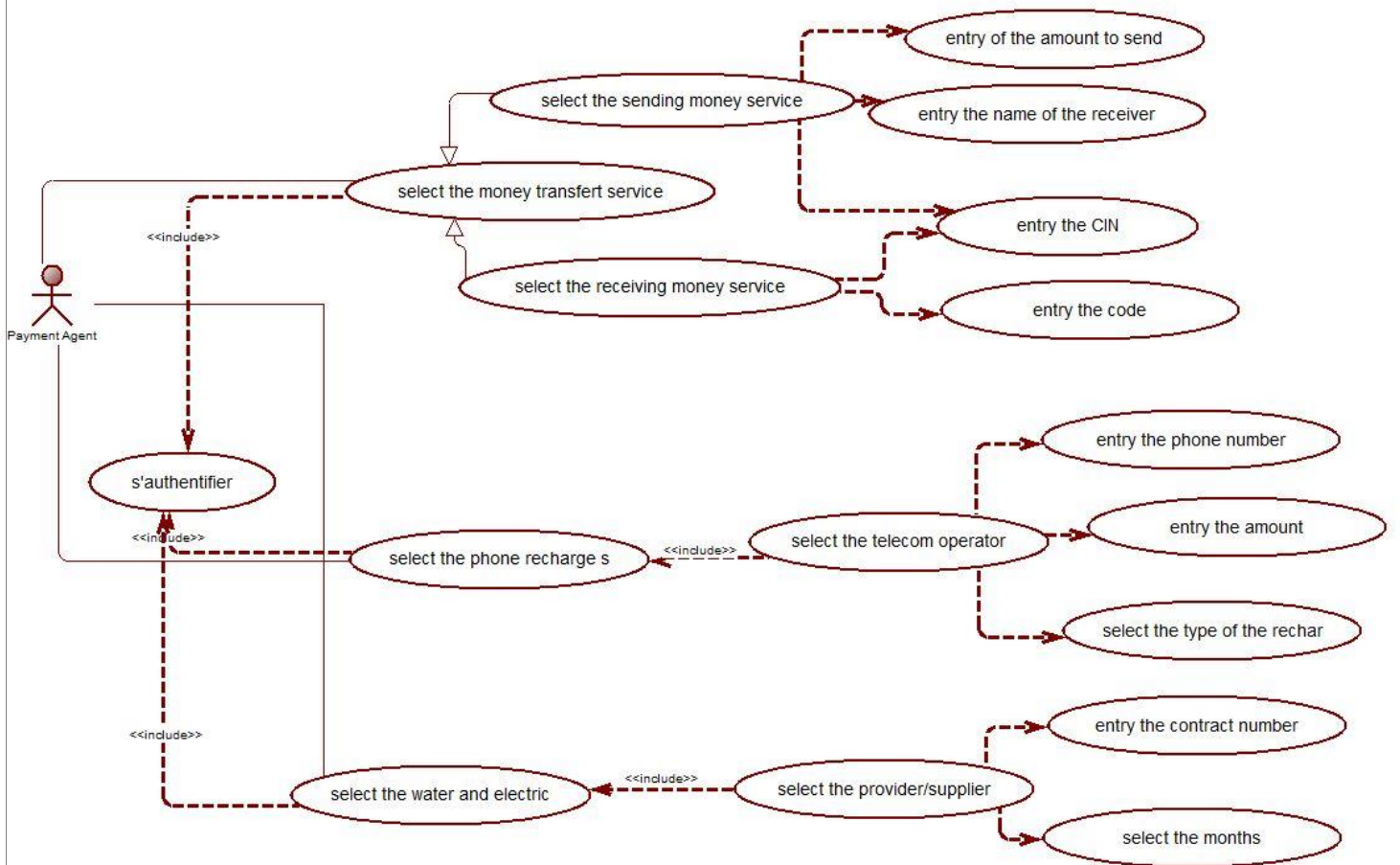**Keywords:**

Micro-Service, Client-Server Architecture, Web Application, JEE, Frameworks, CRUD

Figure 1: The use case diagram