# **Design**

## **3.1 Introduction**

Design is one of the step of SDLC. The systematic sequence of steps which helps to describe, several plan/Structure and produce a project is known as design. It helps you to be focus, transparent while developing. Design process are follow to avoid any misses of function. The structured of the project is preplanned and how the project can achieve goals.

Design is important because:

* The client can trust with the decision that we make through the design.
* It makes us easy/efficient when developing.

I used open software Star UML which is fast, flexible. I used Visual paradigm to develop ER diagram.

* DFD: Data flow diagram (DFD) illustrate the flow of information within the system boundary. DFD visualize things that are hard to describe in words. Symbol use to draw DFD are rectangles, circles, arrows, plus short text labels, input, output, Storage, etc. It may turn later to class diagram (Molson, 2017). I choose DFD because it illustrate how data flow through system, concern where data come from and goes to and where it stored. It gives overview of system which are simple draw and understand. It visualize data so that we can view how the data flow through our system. DFD helps to keep our program organized. We can know how our system will gain the intended purpose.

Below is the data flow diagram showing how user interact with the system:

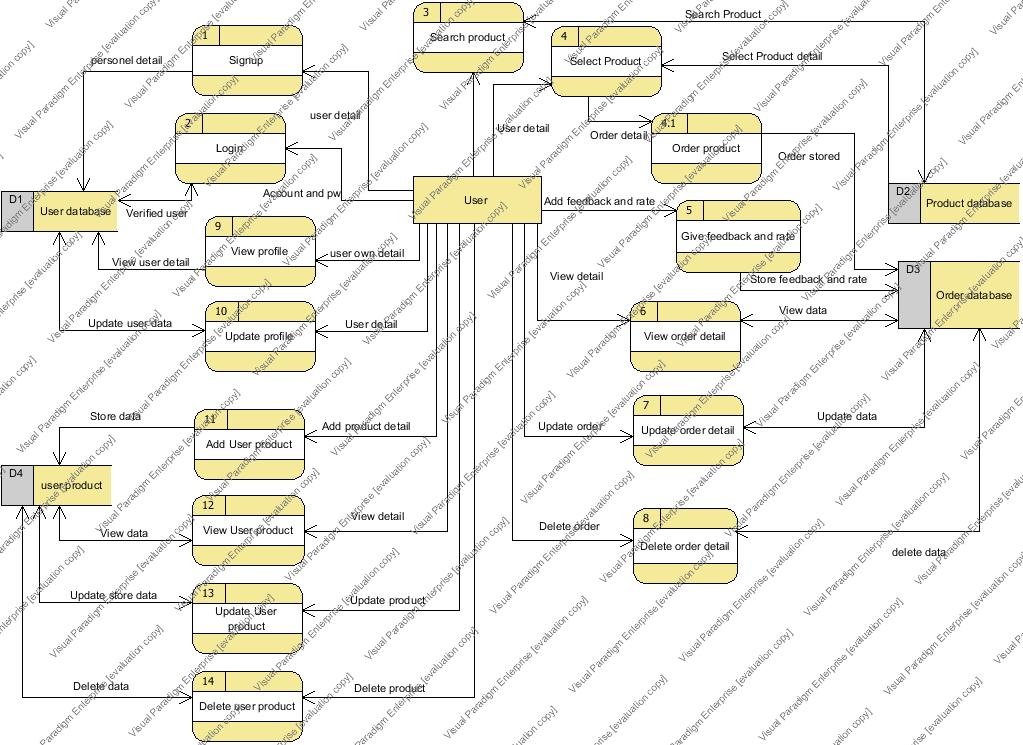


Figure 8**:** DFD of user data flow