

Abstract

One of the paradigms applied in software engineering is object-oriented paradigm. There are many advantages of applying this paradigm in solving problems: the models are close to the real world or easy to be understood, it emphasizes the important of both the functions and the data, the design is easier to be coded, the software will be easy to be maintained, reused, etc. There are many notations used to draw models at the analysis and design stage. One of them is Unified Modeling Language (UML), which is the latest invention among all. At the analysis stage using UML, there are three models that will be drawn: use-case modeling, class-modeling, and dynamic modeling. At the design stage, the following are constructed: interaction diagram, detail class diagram, object-client diagram and detail design of each module.

This application software, which is used to provide cosmetic products advice for customers, will be used by two types of users: the manager/operator and customers. Therefore, the software consists of 2 components: the manager and the customer software component. The manager software component is built by implementing the structured paradigm, while the customer software component is developed using the object-oriented paradigm with UML. Both components share the same data, which is stored in a relational data-base. The manager role is to update the data. The customers use the software to seek advices of cosmetic products based on her skin types. The skin types will be determined after the customers fill out the questioner provided by this software.