# Chapter 4.

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# DEVELOPMENT, TESTING AND DEPLOYMENT

## 4.1. Investigation of scope of product usage.

Creating several small systems that corresponds to cut functionality and has small amount of possibilities is cheap but very ineffective approach. Firstly because of closeness and restrictions of ones. It is necessary to spend small amount of resources for each sub-system and as result we will have several closed applications for working with which is necessary to adapt.

From other side is creation of one big system that will have all functionality and easiness of usage that corresponds to any needs that personnel, staff of training center and common user should use. However, the obstacle is in high price and resource-intensiveness. To develop and deploy such system it is necessary to hire big amount of specialists, from developers and testers to architects, which will implement this system on costly equipment.

Efficiency is main reason of dividing. To orient on a part of target audience and create product only for them, from point of view of efficiency is good approach. In case of flight simulators, it is necessary to have some data calculation application with data management, add web page with GUI, deploy on any computer with medium capabilities in local network, and deploy application.

Create web application that oriented on common a user, a pilot or a company that is interested in training with possibility of checking the results of training. Interconnect these two sub-systems with database data transitions and there will be fully functional system. Each part of it is holistic and working system by itself.

## 4.2 Development.

Development is complicated part of creation of product. In some cases it is necessary to create configuration basis for working on fundament of interconnected