Laboratory work № 3
Creating test scripts
(4 hours)

Objective: To acquire analysis skills, create test scenarios.

Theoretical part

The following criteria are defined as indicators of the quality of alternatives at the enterprise:

• It takes time to create a software product for a new test scripting technology. Let's call this criterion the degree of labor costs for software development.

• The process of creating a test scenario should have clear sequences of actions, transitions, completion conditions. Let's call this criterion the degree of formalization of the process of building a test scenario.

• The presentation of data should be user-friendly and allow information to be received as soon as possible. This criterion will be called the degree of clarity.

• Routine and time-consuming steps should be excluded from the process through automation. This criterion will be called the degree of automation of test template creation. Thus, the task is a multi-criteria evaluation of alternatives. To assess the importance of the criteria and the "degree of importance of alternatives to the requirements of the criteria", we use the method of expert evaluation by a testing specialist of the enterprise. Thus, the task can be reduced to the task of selecting and using the method of analysis of hierarchies. The essence of the task of choice is as follows: the method of analysis of hierarchies (MAI) provides for the structuring of the problem in the form of a hierarchy. Hierarchy is built from the top - this is the overall goal or focus of the problem. In the general case, there may be several goals. The focus is on the level of the most important criteria. Each of the criteria can be divided into subcriteria, followed by the level of alternatives. The stage of formation of a set of alternatives and criteria is carried out taking into account recommendations and is not formalized. Hierarchy is a certain type of system based on the assumption that the elements of the system can be grouped into unrelated sets. The elements of each group are influenced by the elements of another group and in turn affect the elements of the next group.

The structure of the report on laboratory work

    1. Develop test cases according to the requirements of L.R. №1, attached to the template.

    2. For win-32 applications - as an example - test cases on Config Testing WIN32 and Functional Testing sheets.

    3. For sites - as an example - Main Site, Home Page and Functional Testing.

    4. Questions on the Usability Testing sheet - for all types of applications.

    5. Pay attention to item 6 on the Functional Testing sheet. Write similar test scenarios for 3 implemented requirements