**CHAPTER 5**

SYSTEM TESTING AND RESULTS

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

* 1. **SYSTEM TESTING**

The goal of the system testing process was to determine all faults in the project. The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our project went through three levels of testing.

* + 1. Unit testing
    2. Integration testing
    3. Validation testing

# UNIT TESTING

Unit testing is commenced when a unit has been created and effectively reviewed. In order to test a single module, we need to provide a complete environment i.e., besides the section we would require

* + - * The procedures belonging to other units that is the unit under test calls.
      * Non local data structures that module accesses.
      * A procedure to call the functions of the unit under test with appropriate parameters.

# Test for the admin module

**Testing admin login form:** This form is used for log in of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details.

**Report Generation:** admin can generate report from the main database.

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# INTEGRATION TESTING

In the Integration testing we test various combination of the project module by providing the input. The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module.

# VALIDATION TESTING

The whole of validation testing is to expose latent defects in a software system before the system is delivered. This contrasts with validation which is intended to demonstrate that a system meets its specification. Validation testing requires the system to perform correctly using given acceptance test cases.