Computer Architecture & Systems – Research Assignment
Assignment Brief – Stage 02

After consultation with the steering committee for the IT project, **Ballyhaugh Carnegie Library** has come up with the following list of requirements:

1 One server in secure location

    1.1 This will provide network functions, apart from broadband sharing and routing, including:

        1.1.1 Mail server

        1.1.2 Network configuration (DHCP) server

        1.1.3 File sharing

        1.1.4 Log on (security) server

        1.1.5 Web server (low volume of outbound traffic expected)

        1.1.6 Database server (local retired programmer will set this up once installed).

        1.1.7 Firewall

2 As many PCs as can be afforded for public access area

    2.1 Basic or better Word Processing, Spreadsheet, Desktop Publishing and drawing facilities

    2.2 Web Access software (browser)

3 One staff use only PC at the check in/out desk

    3.1 This will be used to track book loans and library members etc.

    3.2 Similar software requirements as above plus database for the check in/out area as above.

4 100Mbps networking

    4.1 Greatest possible software and hardware reliability

    4.2 If affordable, a wireless access point to enable visitors to connect to the library network easily.

5 The figure of EUR5,000 has been confirmed, but unofficially the committee has been re-assured that any small overrun will be covered. Also, it is believed that if there are any unpaid for items, the local community might make up the difference via public collection.

Due date: 29th April 15:15, 2005