**Project Report**



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| **Product Name** | Higher Diploma in Software Engineering (HDSE) |
| **Qualification Name** | Higher Diploma in Software Engineering |
| **Project title** | **Principles and Design of Networked Systems** |
| **Module Name (HDSE)** | IT Systems & Networks |

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| **Student name** | | **Assessor name** | |
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| **Date issued** | **Completion date** | | **Submitted on** |
| 7/20/2024 |  | |  |
|  | | | |
| **Project title** | **Principles and Design of Networked Systems** | | |

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| **Learner declaration** |
| I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.  Student signature: Date:7/26/24 |

**Content**



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# Project Background

Swift & Bacon Publishers (SBP) Ltd is a medium-sized company specializing in the publication of scientific and technical books and journals. SBP operates from two office buildings and supports a hybrid working model, allowing employees to work both remotely and on-site. The organization consists of four subject-specific Publishing Teams, each managed by a Publishing Team Leader (PTL) and supported by up to 20 Publishing Editors (PEs). SBP's network infrastructure includes secure servers for managing manuscripts and publishing content, with a need to maintain high security and efficient data handling.

Given the company's recent shift towards hybrid working, SBP plans to close one office building and reconfigure the remaining building to support both on-site and remote work. This reconfiguration involves setting up a secure, efficient, and robust network infrastructure that caters to the needs of employees working from home and those who choose to work from the office.

1. **Project Objective**

* Improve Remote Working
* Reconfigure Infrastructure
* Upgrade Network
* Better Security
* Networking Solutions

1. **Requirement Specification**

* **Network Infrastructure (Top Floor, Middle Floor, Ground Floor)**
* **Remote Work Capabilities: Company Issued Laptop and VPN Server**
* **Security**
* **Connectivity**
* **Data Management**
* **Employee Management**

# Task 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Network Types** | **Benefits** | **Constraints** | **Example** |
| **Wired** |  |  |  |
| **Wireless** |  |  |  |
| **Hybrid** |  |  |  |

# Task 2

Task Statement :

Task Solution :

Task 3

**Task Statement :**

Task Solution :

# Task 4

Task Statement :

Task Solution :



# Bibliography