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Analysing the Security Needs of TechTraders Ltd.

TechTraders Ltd. is an online shop that sells electronics, clothing, and household items through its website and mobile app.

Customers use the platform to search for products, make payments, arrange deliveries, and contact customer service. Because all these activities happen online, the company collects important information such as customer names, addresses, passwords, order details, and payment information.

Analysing security needs means finding out what the company needs to protect, what could go wrong, and what security measures should be used.

The company needs to protect:

- Customer and employee information.
- The website and mobile app.
- Payment details.
- Product prices and stock information.
- Orders, deliveries, returns, and refunds.

TechTraders Ltd. may face threats such as hacking, phishing emails, malware, stolen passwords, dishonest employees, and attacks that make the website unavailable.

The company must make sure that private information is only seen by authorised people. It must also keep information correct and ensure that its systems are available when customers and employees need them.

To improve security, TechTraders Ltd. should use:

- Strong passwords.
- Multi-factor authentication.
- Encryption.
- Firewalls and antivirus software.
- Regular software updates.
- Secure backups.
- Access controls.
- Cybersecurity training for employees.

The company should also have a plan for dealing with security incidents. For example, if customer passwords are stolen, it should lock the affected accounts, reset the passwords, investigate what happened, and inform the customers.

Good security helps TechTraders Ltd. protect customer information, prevent financial loss, keep its website running, and maintain customer trust.