**Section 1: Explanation of the control and management of digital systems.**

1. **Analyse** and **determine** security strategies for users of a simple [digital messaging application](https://en.wikipedia.org/wiki/Internet_Relay_Chat):

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| *Strategy:* | *Action:* | *Reasoning or Justification, thinking of utility and security:* |
| Password Rules | A password must have a minimum length of 8 characters. | * **Utility**: 8 letters is not too many for one person to type or remember
* **Security**: 8 letters provide enough letter combinations that the password cannot easily be guessed
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| A password must have a maximum length of 15 characters. | * **Utility**: If more than 15 letters is allowed in a password, it might be too long or too hard to remember. The user might keep forgetting, and the password might be too big to store in memory.
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1. **Symbolisation** (illustration or diagram) of security strategies:

Forgotten passwords: *I plan to implement a Forgot My Password feature*. Because hackers might try to spam this to create a flood of emails, I will use a CAPTCHA to make this harder to spam: