These security requirements are extracted from the previous course solutions. Do they correspond to the “criteria of good requirements”? If not, please refine them so that they would correspond to the “criteria of good requirements”.
Criteria for writing good requirements

- **What**, not how (external observability)
  - Avoid premature design or implementation decisions
- **Understandability, clarity** (not ambiguous)
- **Cohesiveness** (one thing per requirement)
- **Testability**
  - Somehow possible to test or validate whether the requirement has been met, clear [acceptance criteria](#)
  - Often requires quantification, this is more difficult for security than e.g. for performance
    - *The response time of button press should be max 2 s.*
    - *The security of function F should be at least 99.9%*
Refine them so that they would correspond to the “criteria of good requirements”.

SecReq.1: Automation of the receipt generation or checking fuel capacity and sold amount of fuel as often as possible.

SecReq.2: Cash register computer must compare data about company car / employee ID to ERP and give warning if there is a mismatch.

SecReq.3: IT department must follow security advisories and patch the vulnerable systems, given that solutions are available.

SecReq.4: Implementing at least two workplaces for serving customers in filling station.

SecReq.5: Appropriate trainings shall be provided to all employees of PowerAB with regards to information security awareness.

SecReq.6: Database backup server accounts should be sufficiently protected against unauthorized access.

SecReq.7: IT managers should plan the placement of card readers near 24/7 cameras, which are monitored from a security officer.

SecReq.8: Have a backup server for redundancy and push uptime to near 100%.

SecReq.9: Using better security applications.

SecReq.10: The firewall should continuously monitor the communication channel and block suspicious software while transmitting message from account department to personnel department.
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• Use **simple direct sentences**
• Use a **limited vocabulary**
• Identify the **type of user who wants requirements**
  – Focus on stating **result**
  – Define **verifiable criteria**
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**SecReq.1**: Automation of the receipt generation or checking fuel capacity and sold amount of fuel as often as possible.

- **SecReq.1.1**: Fuel system should check fuel capacity
- **SecReq.1.2**: Receipt system should generate receipts

**SecReq.2**: Cash register computer must compare data about company car / employee ID to ERP and give warning if there is a mismatch.

- **SecReq.2**: Cash register computer should notify attendant about mismatch between car number and employee ID

**SecReq.3**: IT department must follow security advisories and patch the vulnerable systems, given that solutions are available.

- **SecReq.3**: IT department should patch PowerAB software systems
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**SecReq.4**: Implementing at least two workplaces for serving customers in filling station.

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**SecReq.6**: Database backup server accounts should be sufficiently protected against unauthorized access.

**SecReq.4**: Management should create two workplaces for serving customers.

**SecReq.5** Management should provide security awareness training for the PowerAB employees.

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**SecReq.7**: IT managers should plan the placement of card readers near 24/7 cameras, which are monitored from a security officer.

**SecReq.8**: Have a backup server for redundancy and push uptime to near 100%.

**SecReq.7**: Security officer should monitor the card readers.

**SecReq.8**: The backup server should ensure the uptime of 99.1%.