VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS FAKULTETAS

Requirements modeling

Reikalavimų modeliavimas

Programų sistemų inžinerijos modeliai ir metodai laboratorinis darbas 2

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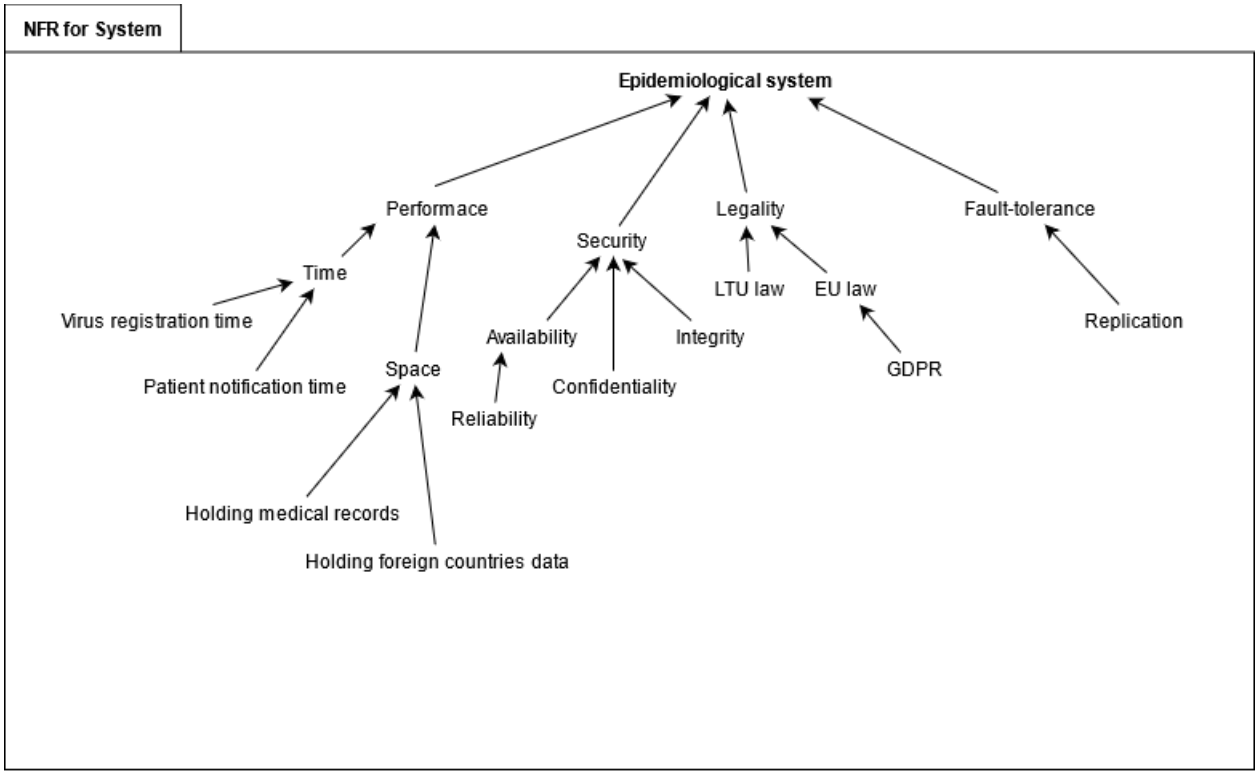
1. NFR type catalogue



pav 1. NFR diagram

- Virus registration time - to ensure quick response time system must provide quick to register new cases.
- Patient notification time - it is important to prevent spread of virus to immediately notify and isolate contagious people.
- Holding medical records - to ensure that correct treatment is applied we need to have all medical records.
- Holding foreign countries data - to check which countries are infected we need to keep up to date information about them to make decisions.
- Reliability - tracking virus must me ensured 24/7 to not miss any crucial data.
- Distributivity - system must be working in many regions in Lithuania to ensure that if one region fails other can still provide service.
- Confidentiality - system must treat sensitive person information with respect to ensure systems credibility.
- Completeness - all data must not be corrupted and must be complete to not lose information about virus.

- Minimality - only required amount of data must be stored to ensure maximum security in case of data breach.
- Summarizability - all data must be summarized correctly.
- Domain Compliance - domain must be modelled compliantly.
- Traceability - to ensure
- LTU law
- GDPR
- Replication
- Tolerance algorithm

2. Modelling of the non-functional requirements

3. Identifying and modelling of possible operationalizations for NFR

4. Detecting and modelling of implicit interdependencies among NFR

5. Chosen operationalizations

6. Strategic rationale model

7. Conclusions about an actor dependency

Conclusions