BATMAN

Privacy Design

General #1

- Data is separated in different "bags", each bag requires certain permissions in order to be accessed.
 - Example of bags:
 - Personal information
 - Steps
 - DNK
 - Health Record of Type X
- There are 3 basic types of groups:
 - Patients
 - Medical Staff
 - Researchers

General #2

- There are 3 basic types of groups:
 - Patients
 - Medical Staff
 - Researchers
- Each group has a set of permissions
 - Example:
 - Medical staff can access user's medical records, modify and add data
 - Researches can access anonymized medical reports of type X (e.g. steps)
 - Patients can see all their data, who can view their data

General #3

- Each group has a set of permissions
 - Example:
 - Medical staff can access user's medical records, modify and add data
 - Researches can access anonymized medical reports of type X (e.g. steps)
 - Patients can see all their data, who can view their data
- User:
 - User belongs to one or more groups
 - Example: Doctor X belongs to group *Medical Staff from Ljubljana* and *Research group in Ljubljana*
 - The access to data depends on his groups permissions

Groups

- Groups have unique name -> Ljubljana
- Each group has 3 subtypes: patient, researcher, medical staff
- Each group can set individual permissions for subtypes
- User can be in multiple groups
 - If patient is in multiple groups, permissions are aggregated by intersection of groups

	Patient Group	Researcher Group	Researcher Permissions
	А	А	А
В	А	В	None
	А, В	В	В
	A,B	A,B	$A \cap B$

Use case example #1

- Users:
 - Janez [Ljubljana:patient]
 - Mirko [Ljubljana:medical]
 - Marko [Ljubljana:researcher]
- Scenario:
 - Janez fills in questionnaire about his lifestyle habits.
 - Mirko can view what Janez filled in
 - Marko can view statistics about questionnaire in Ljubljana e.g. how many patients answered questions, what their answers were etc. but he cannot connect patient X to questionnaire answer

Use case example #2

- Users:
 - Janez [Ljubljana:patient]
 - Jovani [Trst:patient]
 - Marko [Ljubljana:medical, Trst:researcher]
- Scenario:
 - Janez and Jovani fill in questionnaire about their lifestyle habits.
 - Marko can view:
 - What Janez answered, since he is his doctor
 - What some patient answered in Trst, because he is researcher in that group

Use case example #2

- Users:
 - Marko [researcher-Ljubljana, researcher-Trst]
- Scenario:
 - Marko is in two groups, he can view the researcher based data from the groups.