# The SCARP Project

Building a secure Inter-institution Data Sharing Platform with Blockchain

### Deliverable

- A Data sharing Platform
  - A dynamic website for data sharing
  - A blockchain platform to make the data sharing secure

## Who are the users of this platform?

- Institutions:
  - hospital, nursing home, medical school
- The users of this website including:
  - Doctors
  - Nurses
  - Researchers
  - Patients

## What can this platform do?

#### Website:

- User Login and authentication mechanism
- Display users' data
- Role-based access control (RBAC):
  - require access to a specific dataset
  - grant access to a specific user
- Upload data (network transactions)
- Share data (network transactions)
- Blockchain platform:
  - Monitoring the data uploading and data sharing activities

## Preparation before the project start (I)

#### Website development:

- 1. HTML5, CSS, JavaScript, python
  - W3Schools
  - YouTube tutorials
- 2. Django
- 3. Node.js
  - Node.js Documentation
  - YouTube tutorials

## Preparation before the project start (II)

#### Blockchain technology:

- 1. Prepare a desktop/laptop with native Ubuntu 18.04 LTS
- 2. Finish reading <u>Hyperledger Fabric</u> documentation:
  - Key Concepts, Getting Started, Developing Applications
- 3. Deploy the sample "test network" given by Hyperledger Fabric.