Metis Source code details

Activities:

- ❖ ***CreatePatientActivity*** – responsible for enabling the user to create and edit patients.
- ❖ ***GamesActivity*** – responsible for showing available game for the patient, and allowing to   choose between them.
- ❖ ***MainActivity*** – start activity of the application. It requests for storage, audio and video permissions if not granted already and allows the user to connect using username and password from the 'applicationData.json' file.
- ❖ ***MenuActivity*** - responsible for starting a patient's session:
  - starting sensors and video-recording services in the background,
  - navigating to games and videos,
  - and allowing session ending (closes all the background services).
- ❖ ***PatientsListActivity*** - for enabling the user to create, edit and select between patients. If a patient is selected (and pressed 'select' button - a session with the patient will start.
- ❖ ***SimonActivity*** - activity of the known 'Simon' game. screen is divided to 4 colors, which lights up in a different pattern each time, and after the pattern is shown to the user, he needs to repeat the same pattern in order to gain more points.
- ❖ ***Video*** - responsible for presenting a video chosen by the patient, and allow pausing and scrolling through the episode.
- ❖ ***VideosActivity*** - responsible for showing available video series for the patient, and allowing to choose between them.
- ❖ ***VideosEpisodes*** - responsible for showing available episodes of the chosen series for the patient, and allowing to choose between them.

Data types:

- ❖ ***GamesObservable*** – interface that represents observable of the games.
- ❖ ***GameObserver*** - – interface that represents observer of the games.
- ❖ ***Margins*** - class that represents a margins of the Pictures.
- ❖ ***Patient*** – class that represents a patient.

Services:

- ❖ ***SensorsService*** - responsible for recording every sensor value change through time. It stores the sensor data in a CSV file.
- ❖ ***VideoRecordService*** - responsible for video recording with the front camera. It stores the video in mp4 file.

Utils:

- ❖ ***AppContext*** - responsible for returning the application context.
- ❖ ***ApplicationDataManager*** - responsible for all read/write files actions.
- ❖ ***Consts*** - responsible for storing all of the const values for the package for one common source of usage.
- ❖ ***EventWriter*** – responsible for write events and strings to files. It is touchevent driven.
- ❖ ***JsonToMap*** - responsible for convert the Json files to map.
- ❖ ***Logger*** - responsible for log the program and for get an idea for what were the problems, or just getting information about the application.