

REQUIREMENTS ELISITATION FOR A WEB APPLICATION FOR REAL-TIME DATA PROCESSING OF EPILEPSY PATIENTS

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Epilepsy is a problem that is one of the most relevant in modern neurology and psychiatry. Recurrent epileptic seizures often occur under the influence of certain external and internal factors. Controlling them can be difficult, and preventing the consequences without the use of special monitoring devices is almost impossible.

The use of fitness trackers in the field of health information systems is quite common nowadays. Synchronization of devices with mobile devices and display in your own office helps in collecting patient data.

"Ellipse-Client.IO" is a web application that allows the doctor to control the data of health indicators and general data of the patient in real time, that is, it automates the process of monitoring data, also automates the process of controlling general data, using a dashboard.

The software product will work for hospitals that want to buy it. This product segment is poorly developed on the Ukrainian market, so the option of creating just such a software product is quite promising. The website includes patient search, patient information, and infographics. To attract customers, there is a convenient functionality and a pleasant design.

The main user of the software being developed is a doctor (a hospital employee who processes and analyzes patient data).

The functional requirements for the "Doctor" role include the following: 1) any Doctor has the ability to log into the system; 2) he has the ability to log out of the system; 3) he has the ability to create a new patient profile; 4) he has the ability to interact with patient data; 5) he has the ability to edit patient data; 6) he has the ability to delete patient data from the system; 7) he has the ability to review the patient's notes; 8) The Doctor can review the data; 9) The Doctor has the ability to measure the patient's health; 10) display of indicators for a certain time; 11) display of indicators in real time; 12) displaying graphs in real time; 13) display of indicators for the entire monitoring period; 14) export of data on health indicators for the entire period; 15) export of data on health indicators for a certain period.

Non-functional requirements for the web application:

1) equally fast work on various devices (PCs, phones, smartphones, tablet computers);

2) work in browsers Internet Explorer 5.5 and higher, Mozilla Firefox 7.01 and higher, Safari 5.1.7 and higher, Google Chrome 13.0.772.0 (fast loading of pages);

3) the project must be written in the JavaScript programming language;

4) data storage must be carried out on a dedicated server of the organization's local network.