**Mansoura University**



**Faculty of Computers and Information**

**Department of Computer Science**

**Project Proposal**

# Arabic Title

# نظام تقييم وجود مرض الصرع

### 

##### English Title

### System for detection the presence of epilepsy

### **Submitted by:**

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Project Abstract:

Epilepsy is a central nervous system (neurogical) disorder in which brain activity becomes abnormal, causing seizures or periods of unusual behavior ,sensations and sometimes loss of awareness ,there are some common risk factors for epilepsy which is: Abnormal blood vessels in the brain ,Lack of oxygen to the brain , infection in the brain like meningitis, encephalitis ,brain tumor

Project Objectives:

The purpose of our project is to develop a system that detect the epilepsy is present or not by using( EEG),by this system we will limit the appearance of epilepsy.

Who are the project **competitive**? and how will your project be **different**?

Competitive:

\*December 3,2021 researchers have developed a noninvasive way to remove faulty brain circuits that could allow doctors to treat debilitating neurogical diseases without the need for conventional brain surgery

\*October 20,2021 epilepsy seizures can be triggered when a natural braking system meant to control brain activity goes away ,researchers found the discovery could open the door to new treatments.

The difference: we will recognize the epilepsy faster by technological ways that help us to limit its appearence

Tools, Hardware and Software Resources:

**Tools :-**

Epilepsy pipeline tracker

Device\_ Apedia

Photosensitive epilepsy analysis tool(PEAT)

**Software:-**

Visual studio

brackets

**Hardware:-**

SCHEDULING PHASES:

|  |  |  |
| --- | --- | --- |
| **From** | **To** | **Activity** |
| Week 1 | Week 2 | studying |
| Week 2 | Week 4 | Data gathering |
| Week 4 | Week 6 | Deployment |
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References:

https://www.sciencedaily.com/news/health\_medicine/epilepsy/

https://www.mayoclinic.org/diseases-conditions/epilepsy/symptoms-causes/syc-20350093

https://braininformatics.springeropen.com/articles/10.1186/s40708-020-00105-1#:~:text=Machine%20learning%20classifiers%20are%20able,learning%20classifiers%20and%20statistical%20features

https://www.hopkinsmedicine.org/health/treatment-tests-and-therapies/electroencephalogram-eeg