Project: A19

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Project Title: Dashboard Interface for Record Monitoring

Brief Project Description:

The project goal is to create a working prototype of a highly innovative dashboard-type interface that can alert a professional user (e.g. a medical doctor, a career adviser) to developments/trends of interest (or concern) in a record of events or observations that is evolving in real time (e.g. as the professional user updates a database while conducting an interview with the patient/client). The system should borrow from conventions adopted in graphical representations – not necessarily computer-based – that help users monitor complex processes or navigate through complex environments (e.g. car dashboards, aircraft flight displays, information panels on consumer devices, project timelines, schematised maps). For this project you will have to identify and learn how to use an appropriate set of interface development tools, probably for a Java-based implementation. Your demonstration system should show display elements being activated and changed by sets of rules that are appropriate to your chosen problem domain and that use appropriate data. The human expert using the display should be alerted subtly but appropriately to developments of interest (or of concern) while he/she engages in other tasks (e.g. updating the patient’s record/the client’s notes during the live consultation). Programming Languages Used: Java, Windows, and any appropriate specialised GUI development toolkit

User stories

* Professional user can login.
* Professional user can logout.
* (Optional) Professional user can make a request to reset password.
* (Optional) Professional User is prompted for patient/client information.
* (Optional) Professional As the user is filling out the patient/client details the suggestions will appear in a drop down box and will give the option to auto fill the rest of the fields.
* (Optional) Professional User can select and confirm the patient/client details.
* (Optional) Professional User can take patient/client notes.
* Sympons

Questions

* What fields would be user to identify a patient/client.
* Would it be that when the professional user logs in they are prompted for the client’s information to add new information or would they have set patients/ clients to pick from.
* Would they be able to go through pass notes or search for them? Would they need for security reasons need to log in again to prove they were who they were.
* Do user add keywords to notes or do they add hashtags

Design Ideas

* Bell icon to notify the user something has been noticed
* When they click on the they are given the option to look through how many times the key word has been mentioned (dates and headlines), what these symptoms could be sign of, and they will be able to scroll through the notes. Also if they click on one of the headlines they can read it.
* White background colour
* Red, blue, grey and green foreground colour.

Colon Cancer symptoms (change in stool symptoms for over three weeks is when it is considered a problem) –

* A change in your bowel habits, including diarrhea or constipation or a change in the consistency of your stool
* Rectal bleeding or blood in your stool
* Persistent abdominal discomfort, such as cramps, gas or pain
* A feeling that your bowel doesn't empty completely
* Weakness or fatigue
* Unexplained weight loss

Symptoms of type 2 diabetes –

* Increased thirst
* Increased hunger (especially after eating)
* [Dry mouth](http://www.webmd.boots.com/oral-health/guide/dry-mouth)
* [Frequent urination](http://www.webmd.boots.com/urinary-incontinence/guide/frequent-urination)
* Unexplained weight loss (even though you are eating and feel hungry)
* [Fatigue](http://www.webmd.boots.com/sleep-disorders/default.htm) (weak, [tired](http://www.webmd.boots.com/sleep-disorders/guide/sleep-disoders-finding-help-index) feeling)
* [Blurred vision](http://www.webmd.boots.com/eye-health/guide/blurred-vision)
* [Headaches](http://www.webmd.boots.com/migraines-headaches/guide/migraine-headaches)
* Loss of consciousness (rare)
* Recurrent infections, including thrush infections
* Slow-healing sores or cuts
* Itching of the [skin](http://www.webmd.boots.com/skin-problems-and-treatments/guide/picture-of-the-skin) (usually around the vaginal or groin area)
* Frequent [yeast infections](http://www.webmd.boots.com/women/guide/vaginal-thrush-symptoms-diagnosis-treatment)
* Recent weight gain
* Velvety dark [skin](http://www.webmd.boots.com/healthy-skin/ss/slideshow-how-your-life-affects-your-skin) changes of the neck, [armpit](http://www.webmd.boots.com/pain-management/guide/picture-of-the-armpit) and groin, called [acanthosis nigricans](http://www.webmd.boots.com/skin-problems-and-treatments/guide/acanthosis-nigricans)
* Numbness and tingling of the hands and [feet](http://www.webmd.boots.com/foot-care/feet-picture)
* Decreased [vision](http://www.webmd.boots.com/eye-health/ss/slideshow-healthier-eyes)
* [Sexual dysfunction](http://www.webmd.boots.com/sexual-conditions/default.htm), such as [erectile dysfunction](http://www.webmd.boots.com/erectile-dysfunction/default.htm) in men.

Iron deficiency anemia symptoms –

* Extreme fatigue
* Pale skin
* Weakness
* Shortness of breath
* Chest pain
* Frequent infections
* Headache
* Dizziness or lightheadedness
* Cold hands and feet
* Inflammation or soreness of your tongue
* Brittle nails
* Fast heartbeat
* Unusual cravings for non-nutritive substances, such as ice, dirt or starch
* Poor appetite, especially in infants and children with iron deficiency anemia
* An uncomfortable tingling or crawling feeling in your legs (restless legs syndrome)