

CSE 280

The Fives Sprint #0

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Brainstorming

- Ideas and why rejected them
 - Small Platformer
 - Rejected because a lot of art-work would be involved along with a lot more development in programming the dynamics and physics in the game. We just agreed it wasn't something we would actually be able to accomplish with the amount of time we are given.
 - Budget Tracker/Finance Application
 - Rejected because it was too general, nothing was really unique about this idea as other teams also considered something very similar.
 - Also rejected because no team members have a background in finance
 - Password Generator
 - Rejected because other teams also considered an idea very similar and we wanted to do something that made us think outside the box a little more, something that no one else even considered.

Our Project: Blood Buddy

- Name: Blood Buddy
- Description: To the right is a picture of a standard CBC ordered by a physician
- Our application allows you to input these values and will generate an overall description of your health as well as teach you what the test codes correspond to

Complete Blood Count (CBC)

TEST	RESULT	UNITS	REF RANGE
WBC	5.2	x 1000/mm ³	3.9 - 11.1
RBC	3.81 L	x 10 ⁶ /mm ³	4.20 - 5.70
HGB	14.5	g/dL	13.2 - 16.9
HCT	41.2	%	38.5 - 49.0
MCV	98 H	fL	80 - 97
MCH	33.7 H	pg	27.5 - 33.5
MCHC	35.3	%	32.0 - 36.0
RDW	11.8	%	11.0 - 15.0
PLT	172	x 1000/mm ³	140 - 390
MPV	7.6	fL	7.5 - 11.5
NEUT %	40.1	%	38.0 - 80.0
LYMPH %	46.1	%	15.0 - 49.0
MONO %	12.9	%	0.0 - 13.0
EOS %	0.6	%	0.0 - 8.0
BASO %	0.3	%	0.0 - 2.0
NEUT, ABS	2085	cells/mm ³	1650 - 8000
LYMPH, ABS	2397	cells/mm ³	1000 - 3500
MONO, ABS	671	cells/mm ³	40 - 900
EOS, ABS	31	cells/mm ³	30 - 600
BASO, ABS	16	cells/mm ³	0 - 125

Why this one?

- This idea was the most unique one we had
- Our chosen idea is the one that has the possibility to make the most impact on people's lives
- The project is feasible to complete in one semester
- The project has much room for expansion of additional features

The Good the Bad and the Ugly

- Good

- This app has the potential to bridge the trust gap between doctors and patients as well as getting people to live healthier
- Simple to implement, endless possibilities to add new features

- Bad

- Users might use this application instead of seeing a doctor
- The application may be too simple in nature, but we have other features we can add to make it more complex and we will learn a lot regardless.

- Ugly

- It is unethical to give unqualified medical advice against the wishes of a physician. It is important that we accurately represent the data and have the proper references if we make suggestions.

Target Devices

- Android
- Really cool to have: Web implementation

Timeline and Responsibility Chart

1. Planning (done before sprint #0)
2. Design (initial design by 9/20 and extends until 10/1/2016)
 - a. All members will help with the design of the application
 - b. User interface mockup designed by Serar
 - c. Deliverables typed by Michael, and Brandon
 - d. Presentation slides by Peinan
3. Development (10/1 - 11/29)
 - a. All members will help with the development of the application
 - b. Project manager will be whoever the sprint master is for the period
 - c. Software implementation will be led by Michael Frieze
4. Refactor and testing (11/29/2016 - TBA)

Production for Sprint #1

- Sprint Master: Brandon Miller
- Targets: Begin design of app UI and some of the java code behind it
- List of Deliverables
 - Presentation Slides
 - Documentation
 - Updated requirements
 - Updated timeline
 - References
 - Artefacts
 - Basic outline of artefact
 - Simple functions