Deliverable 1: Team Topic Presentation

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FHIR STARTERS
Jan Marie Andersen, Darryl Buswell, Spencer Knight, Lamar Phillips & Brian Wells

Link to presentation: https://www.youtube.com/watch?v=0bizwVMtDJo&feature=youtu.be
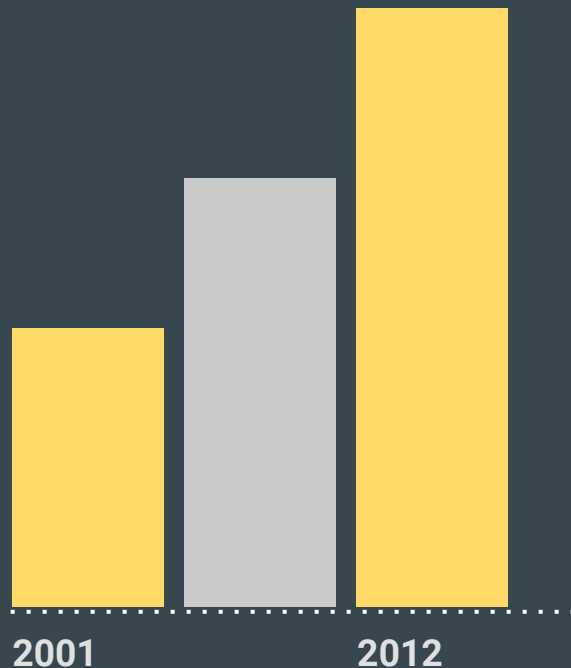
Concussion and Traumatic Brain Injury in Pediatric Patients

The problem

Increase in the number of pediatric patients with mild traumatic brain injury (mTBI)

Healthcare providers don't have the time or training to appropriately assess patients with mTBI

How can we improve evidence-based diagnosis and management of mTBI in children?

2001   **2012**

The Solution

1) To develop a provider interface that provides clinical decision support mTBI in children

2) To develop a parent/patient app that alerts parents about symptom monitoring and follow-up, and aids in communication between parents and the healthcare and school settings.

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The FHIR Starters

Darryl Buswell

Project Manager

Brian Wells

Developer

Jan Marie Andersen

QA, Developer

Lamar Phillips

QA

Spencer Knight

Developer

The plan

An evolutionary prototyping software development process is proposed. This will require a larger time commitment from the subject matter experts (SMEs), thus this is subject to change pending their availability.

Step 1

Gather initial requirements and design a prototype

Step 2

Develop an initial prototype and perform workshop with SMEs

Step 3

Gather more requirements based on workshop, repeat steps 1 and 2 until all requirements met
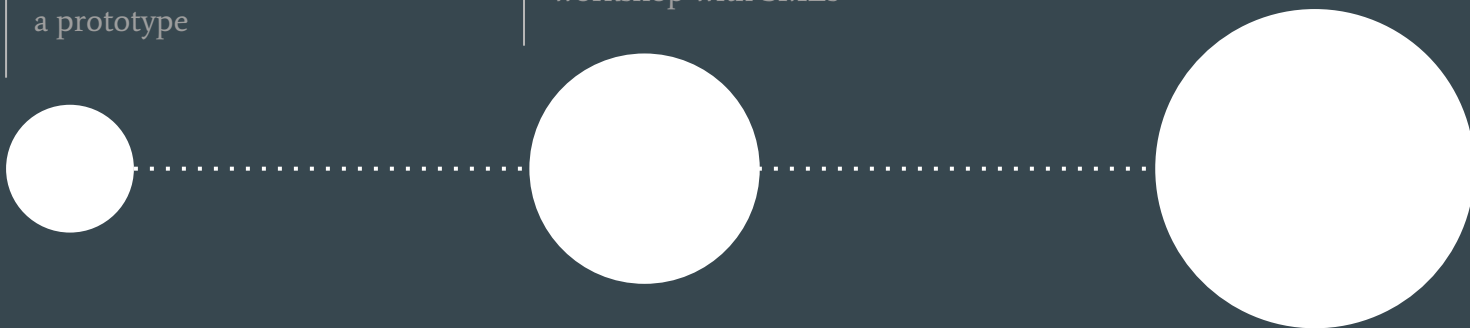
Research

The requirements gathering phase will require extensive research:

- Survey of existing apps and data in the TBI domain to get a head-start
- Subject matter experts in diagnosis and management of mTBI will be interviewed to build a knowledge-base for the CDS
- Gathering of user experience design guidelines for patient/parent-facing symptom monitoring apps

Schedule

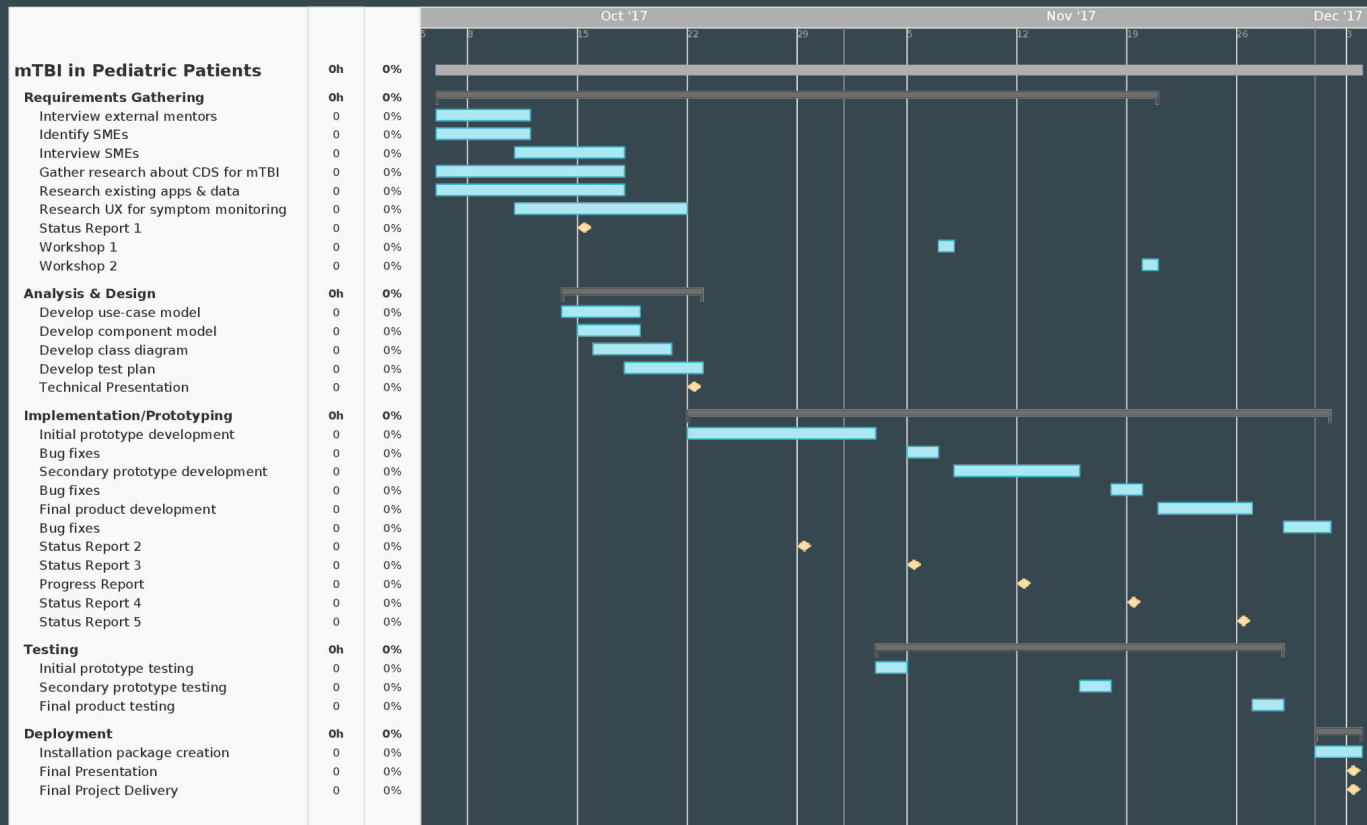| mTBI in Pediatric Patients	0h	0%
Requirements Gathering	**0h**	**0%**
Interview external mentors	0	0%
Identify SMEs	0	0%
Interview SMEs	0	0%
Gather research about CDS for mTBI	0	0%
Research existing apps & data	0	0%
Research UX for symptom monitoring	0	0%
Status Report 1	0	0%
Workshop 1	0	0%
Workshop 2	0	0%
Analysis & Design	**0h**	**0%**
Develop use-case model	0	0%
Develop component model	0	0%
Develop class diagram	0	0%
Develop test plan	0	0%
Technical Presentation	0	0%
Implementation/Prototyping	**0h**	**0%**
Initial prototype development	0	0%
Bug fixes	0	0%
Secondary prototype development	0	0%
Bug fixes	0	0%
Final product development	0	0%
Bug fixes	0	0%
Status Report 2	0	0%
Status Report 3	0	0%
Progress Report	0	0%
Status Report 4	0	0%
Status Report 5	0	0%
Testing	**0h**	**0%**
Initial prototype testing	0	0%
Secondary prototype testing	0	0%
Final product testing	0	0%
Deployment	**0h**	**0%**
Installation package creation	0	0%
Final Presentation	0	0%
Final Project Delivery	0	0%

Thank You!

Thank you for your attention.

We look forward to working with Kelly and Juliet on this project and hope that it will meet all expectations.