OMS CS6440: Introduction to Health Informatics

Sprint #3 - Status Check In #1

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1 PROJECT TOPIC - SLEEP PATTERN ANALYSIS APP (SPAA)

1.1 Accomplishments

Overall the project has been running on time and I was able to achieve everything I had planned out as per the Practicum Sprint #2 - Project Planning document. Here are the details week wise:

Week #	Accomplishments for the week

Week 8 & 9
26th Feb - 10th Mar
	• Learning React and JS
	• Research about sleep in general
	• Setting up project
	   ○ Base React code setup
	   ○ GitHub Pages deployment setup
	   ○ Resolving issues with deployment
	• Basic homepage visuals
	• Import JSON feature + it's deployment

Week 10
10th Mar - 17th Mar
	• Learning React and JS
	• Research around sleep stages and calculations possible for the available data.
	• Data cleaning and processing
	   ○ Checks for invalid JSONs
	   ○ Calculation of fields like duration, timeInBed, efficiency, etc.
	   ○ Identifying and calculating the level of sleep (deep, light, etc.) from the main data array.
	• Documentation of above calculation formulas (50% done)
	• GitHub Pages deployment maintenance.

1.2 Challenges

The only major challenge I've faced till now was the issues with GitHub pages deployment. It seemed that there were slight differences with the deployment process as we have hosted the codebase on a GitHub Enterprise account. Identifying and debugging this issue took up almost a whole day. But this has not impacted the project timeline or scope in any way. Apart from that the process of learning and implementing React on the go is a time consuming process.

For the future sprints I anticipate I might face some minor challenges when working on the sleep score calculation engine and (working with) the libraries for data visualizations.

1.3 Sprint Plans - Project Timeline

As mentioned above, there are no changes to the project scope or timeline. Only 1 minor change made to the project timeline - I shifted the work sleep score engine (2 weeks) to be in 1 sprint as it will be easier to track progress (earlier it was split between 2 sprints). Everything else remains the same.

Sprint	Week	Start Date	End Date	Tasks
4	11	18th Mar	24th Mar	Sleep Score Engine
	12	25th Mar	31st Mar	Sleep Score Engine
5	13	1st Apr	7th Apr	Data Visualizations
	14	8th Apr	14th Apr	Export Feature + Testing
6	15	15th Apr	21st Apr	Code Cleanup + Testing + Documentation + Final Submission