CSCI2720 Group Project Outline

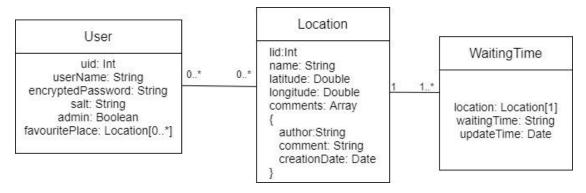
Group 15

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1. Data Source

Accident and Emergency Waiting Time by Hospital

2. Data Schema Plan



3. APIs to be used

- Accident and Emergency Waiting Time by Hospital (English)
 - https://data.gov.hk/en-data/dataset/hospital-hadata-ae-waiting-time
- Google Map JavaScript API
 - https://developers.google.com/maps/documentation/javascript/overview

4. Why ReactJS + MongoDB?

ReactJS vs Angular

Pros		Co	Cons	
•	ReactJS using virtual DOM and it is faster and more efficient.	•	Angular using incremental DOM and it take more time on difference calculation. ¹	
•	ReactJS has a smaller learning curve, simple design, easy for beginners.	•	Angular has steeper learning curve. It requires to learn TS and thorough knowledge of Angular template syntax.	

)	MongoDB vs MySQL					
	Pros		Cons			
	•	MongoDB performance is faster, since data put in the same collection.	•	MySQL is slower, data put in different table and you have to join it every query.		
	•	Faster development and deploy. No restricted schema.	•	Have to spend time to design the schema and the table normalization. Lower the development speed.		

¹ https://blog.bitsrc.io/incremental-vs-virtual-dom-eb7157e43dca