Enterprise Computing and Business

CS3525

# Group Assignment - Data Models

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# Introduction

This report outlines the data models used for our business case of OrderShare. OrderShare is an innovative application which allows customers to order food together with others in order to save on transportation fees, and make the best use of deals. The system includes features such as creating an order, ‘subscribing’ to a restaurant, receiving notifications for nearby orders and adding friends to a specific order. The business case of the application is to take a share of each transaction, or be funded by restaurants promoting themselves in the home page or subscriptions. The main focus of the application is mobile, so much of the heavy lifting must be done server side, and delivered to the client via API calls.

# Purpose

To handle such a complex system, we must design a robust data model. While the codebase can be changed, adjusting data models retroactively is no easy task. As Bloomberg explains in their professional blog (BloomBerg, 2015), the data lifecycle has 7 phases of Data Capture, Data Maintenance, Data Synthesis, Data Usage, Data Publication, Data Archival and Data Purging. At each stage of the data lifecycle, there are multiple times where the system communicates with the data model. Therefore, the flow of data must be as streamlined as possible to minimize system

# Bibliography

BloomBerg. (2015, 7 14). *BloomBerg Professional Services*. Retrieved 02 11, 2018, from BloomBerg Professional Services: https://www.bloomberg.com/professional/blog/7-phases-of-a-data-life-cycle/