COMP421 Presentation Outline

- **Introduction** (5 mins)
 - Motivation
 - why would you need graph databases
 - maps naturally to a lot of problem
 - basic use cases
 - mention our app why is graph database a good idea
- **Data Model (ch 3)** (10 min)
 - basic definitions
 - difference with rdbms
 - fundamental differences
 - advantages
 - communication with domain expert one-to-one relation with the actual data model and domain
 - schemalessness
 - disadvantages
 - example : use case (maybe northwind stuff)
- Query Language (cypher) (7-10mins)
 - basic clauses
 - basic operations
 - labels management
 - relationships management
 - nodes management
 - pattern matching in queries
 - some cool query examples
 - maybe have a table that shows an equivalent query in sql
 - how the query language binds naturally to the use case
 - sql/cypher table
- APIs and Application --developer point of view (5 mins)
 - APIs bundled with neo4j

- neo4j browser
 - (show fancy graph from a query)
- shell interface
- **DEMO** (5 mins)
 - technologies used
 - data used
 - basic diagram
- Internal Structure (ch 6) (10 mins)
- Q/A and Socrative quizz

TODOs:

- 1-2 question for exams/homework
- socrative quizz
- cook up another application and implement in neo4j (social network,etc..)
- cheatsheet