

# 607 – Project 5

***Project 5 is due end of day on Sunday May 10th. You may work in a small group on this project.***

## Instructions

In this project, we'll take a look at use cases for Neo4j as well as give some thought to data modeling.

## Part I: Research

Start by learning about use cases for graph databases. Here are two resources to get you started:

- ✚ *Graph Databases* by Ian Robinson, Jim Webber, and Emil Eifrem (A link to a PDF file of the book is included in this week's reading. Chapter 5 (pages 99-141) discusses common use cases.
- ✚ The Neo4j website: also has use cases: <http://neo4j.com/use-cases/>

## Part II: Deliverable

Your task is to either invent **or choose a use case** for a graph database and then **provide an outline of implementation**. In particular, you should provide:

- ✚ **A high-level description** of the business use case you have chosen
- ✚ **A description of the data model** (define the nodes, relationships, and attributes that will be used and how they will fit together)
- ✚ **A small sample of data to illustrate** what the raw data are that will be used (you can create fictional data as necessary, and only need enough rows in your data to complete the last steps below)
- ✚ The **code for queries** to acquire and manage the data in Neo4j
- ✚ The code for queries to access and **analyze the data for your use case**

You do not need to develop a complete implementation. Sketch out the project so we have a fairly complete picture of what you might subsequently implement.