**The Chinese University of Hong Kong**

**Department of Computer Science and Engineering**

**CSCI 4140 Project Proposal**

Poon Bing Chun 1155063232

Project Title: Tempus E Spatium

# Overview

In this project, I will build a two-player Android quiz game app on one single device. A multi-touch device is required for this app to run correctly. At the first week of the course, I thought of a Python game called “Rampant Sphinges”. I downsized (but not scraping) it because I wished to work on my own, and I thought the workload is too high for a single person. Still, the new idea retains the concept of scraping Wikipedia to generate quiz questions, and remains to be a board game.

The project is named Tempus E Spatium (Latin for Time and Space, which is often prefixed by “lost in”) as the questions focus on history and geography. Quiz types include: Drag and drop the national flags to the right continent, listen to the national anthem and choose the correct flag, and complete the word. Despite the name of the app, the last type can be of any question type.

The questions are timed five seconds each (three on hard difficulty). If a player did not answer in time, he will lose 5 points.

# Development schedule

The size of the project is designed for one person. Owing to the scarcity of time, the rapid prototyping software development model will be used. Implementation starts right at the beginning, simulaneous with design; instead of coding only after the design is entirely finished. The outcome should be robust and bug-free.

{insert Gantt chart here}

# Dependencies

The Android application uses support libraries, so it can backward support devices down to API 13 (Android Honeycomb 3.2).

It uses the Picasso library for image downloading and caching, the Volley library for getting the Wikipedia webpage (GET requests), the Google Maps API, and the W3C XPath library for scraping. For styling, the Android-Bootstrap library, and the NumberPicker library are used.

It also uses the Natural Earth Data set, available in Google FusionTables (or Google Charts?) for geographic data.