**Standardized Testing Data Processing (Excelerate)**

**Domain:**

Data Processing using databases and analytic functions. This application to standardized testing will allow a user to see more details and create strong analytic patterns based upon simple point to point data transactions.

**Purpose:**

To decompose all attributes of standardized testing such as questions, answers, missed questions, sections, types of sections, types of questions, and all other common patterns to give the user a comprehensive analysis of underlying flaws in their test taking skill.

**Applications:**

Standardized Testing

1. SAT
2. MCAT
3. GRE

Employee Tutorials

1. Safety Training
2. Lab Training

**Product:**

Initial product will be targeted to a test class company such as Princeton Review and will contain in and of itself a database of all properties of test materials. Users can input practice test results and reasons for misses and the program will analyze this input and provide an accurate report of the user’s misses.

Final product could potentially be a collection of practice tests that the user takes and then has the report outputted to them for self-improvement.

**Potential Problems:**

* Most tests are intellectual property and permissions will be required to use them.
* Unfamiliarity with tests other than SAT.
* Easily replicated by others and patents must be enforced.
* Will require a strong analytics calculator python program.

**Output Plan** (8 months)**:**

1. Decide whether our initial launch will be for MCAT or SAT.
2. Develop Python modules that input simple misses and transactions.
3. Construct database of all test properties.