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BAIM 3220

Midterm Project

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Generated data based on real 2022 university statistics a replicated business process was created analyzing the application process from the side of the University of Colorado Boulder. Importing data found from the University of Colorado Boulder gave a precise 54,858 students that applied during the 2022 school year. Using a random name generator to replicate these 54,858 students as they go through the application process.

This process begins by inserting one's SAT or ACT score, along with an individual's GPA to access the universities that this applicant would be accepted to. Taking this into account alongside the four listed university's admission percentages (Harvard, Cal Berkley, CU Boulder, and DeVry) creates a program that generates which universities the applicant will get into considering these factors. The GPA score is constant while either the SAT or ACT score has to meet the requirement for a university. The following steps are user decision-making as an individual will find out which of the before mentioned universities they have been admitted to. Ensuing their results, it is decision time for the individual as to what university they would like to attend. Having chosen the university that they wish to attend they must then decide on which college within the university they would like to pursue (business, engineering, etc.).

If this applicant has chosen the University of Colorado Boulder, they will then have the ability to see a cost breakdown of their tuition based on multiple factors. There is a breakdown of tuition based on geographical factors such as; resident (Colorado), non-resident (outside Colorado), or international. Of these three sections there are four tiers each containing different majors with different tuition costs and are broken down as such:

- **Tier 1:** Arts & Humanities in Arts & Sciences, Education, Music, Open Option in Arts & Sciences, Program in Exploratory Studies, and Social Sciences in Arts & Sciences

- **Tier 2:** Environmental Design and Media, Communication and Information (CMCI)

- **Tier 3:** Engineering and Natural Sciences in Arts & Sciences

- **Tier 4:** Business

These four tiers exist within each of the three different geographical tuition options and all contain different prices points listed [as]:

Resident (per year)

- **Tier 1:** $30,452

- **Tier 2:** $32,228

- **Tier 3:** $34,004

- **Tier 4:** $35,924

Nonresident (per year)

- **Tier 1:** $57,702

- **Tier 2:** $59,500

- **Tier 3:** $60,982

- **Tier 4:** $61,306

International (per year)

- **Tier 1:** $59,602

- **Tier 2:** $61,296

- **Tier 3:** $62,772

- **Tier 4:** $63,202

This data is plucked from the University of Colorado Boulder and is replicated to create a mutually beneficial system for both the applicant and the university. Using this process allows the applicant to analyze and plan out if the University of Colorado Boulder is right for them by accessing their potential financial obligation. This also creates an effective budgeting plan for

the university for the upcoming school year by quickly being able to recognize the money that will be flowing in from prospective students.