**Web App Proposal: Rate My College Tim, Gavin, Justin**

**App Overview:** Rate My College is a web application designed to help students make informed decisions about their courses and professors. This app will allow users to rate not only professors but also specific courses and subjects within a college. This provides information about the difficulty, workload, and overall experience of both instructors and courses.

**Key Features:**

* Users can rate and review professors, courses, and subjects.
* Filter and search functionality.
* Anonymous reviews.
* Upvote/downvote system for reviews.

**Users:**

* College students looking for reviews on courses.
* Students researching different colleges.
* Academic advisors and professors who want to improve courses.

**Team Responsibilities:**

* **Tim:** Backend Development & Database Design.
* **Justin:** Frontend Development.
* **Gavin:** Testing & Deployment.

**Database Design:**

1. **Users Collection**
   * user\_id (string, unique identifier)
   * username (string)
   * email (string)
   * created\_at (timestamp)
2. **Professors Collection**
   * professor\_id (string, unique identifier)
   * name (string)
   * department (string)
   * college (string)
   * ratings (array of review\_ids)
3. **Courses Collection**
   * course\_id (string, unique identifier)
   * name (string)
   * subject (string)
   * college (string)
   * ratings (array of review\_ids)
4. **Subjects Collection**
   * subject\_id (string, unique identifier)
   * name (string)
   * college (string)
   * ratings (array of review\_ids)
5. **Reviews Collection**
   * review\_id (string, unique identifier)
   * user\_id (string, reference to Users)
   * target\_id (string, reference to Professors, Courses, or Subjects)
   * rating (integer, 1-5 scale)
   * comment (string)
   * created\_at (timestamp)

**External Services:** At this time, we do not anticipate using any third-party web services.