Official Memo

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**To:** Judson Murray

**From:** João Gabriel Garçon Ribeiro

**Subject:** Project Topic & Business Rules

**Project Topic**

A gym workout database.

**Business Rules**

1. **User Login**

* The user must log in with his/her unique username and password to use the application.

1. **Workout Creation**

* **To create a new workout, the user must provide:**
  + Workout title

1. **Exercise Creation**

* **To create a new exercise, the user must provide:**
  + Exercise title.
  + Exercise description.
  + Exercise instructions.

1. **Workout Exercise Creation**

* **To create a relationship between workout and exercise the user must provide:**
  + Workout ID
  + Exercise ID
  + Exercise Reps
  + Exercise Sets
  + Exercise Set

1. **Create Muscle**

* **To create a new muscle, the user must provide:**
* Muscle Name.

1. **Create Exercise-Muscle Relationship**

* **To create a new exercise-muscle relationship, the user must provide:**
* Muscle ID.
* Exercise ID.

1. **Browse Records**

* **To browse for records, the user must:**
* To see the related data, the user must select either a workout, an exercise, or a muscle from the dropdown menu.
* Or browse by a single table via buttons.

1. **Delete Records**

* **To delete, the user must:**
* Open the desired maintenance entity window, browse for the desired record, and click the Delete button.

1. **Update Records**

* **To update, the user must:**
* Provide the exact fields required to create the same record
* Related entity records cannot be updated; they must be deleted and re-created.

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