

Universidad Distrital Francisco José de Caldas

Facultad de Ingeniería

Ingeniería de Sistemas



Fundamentos de Bases de Datos

Reporte proyecto

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Bogotá – Colombia

mayo 2024

STAKEHOLDERS:

Stakeholders:

End Users: Our key stakeholders are all those individuals who are committed to improving their health and wellness through regular exercise. These users are looking for a personalized and practical solution to help them achieve their fitness goals, providing them with the tools and support they need to stay motivated and focused on their path to a healthier lifestyle.

Developers and administrators of the "Fitia" app: This group is in charge of designing, developing, maintaining, and optimizing the "Fitia" platform. Their main objective is to ensure that the app works efficiently, securely, and attractively for users, constantly incorporating new features and improvements based on the needs and feedback from the community.

Support and customer service staff: Our support and customer service team is dedicated to providing an exceptional user experience, offering fast and effective assistance with any query, problem, or suggestion related to the app. Their mission is to ensure user satisfaction and trust, building strong and lasting relationships with our community.

Business Model: "Fitia" presents itself as a comprehensive platform designed to offer its users a unique and personalized fitness experience. The app combines exercise routines tailored to individual needs, real-time progress tracking, and valuable health and wellness tips. All of this is offered through a monthly subscription that provides unlimited access to all of the app's premium features, ensuring a complete and enriching experience for users.

ONTOL

The ontology of the gym database defines the entities and their relationships. Clients have attributes such as `client_id`, `client_name`, `gender`, `age`, `height`, `weight`, `physical_condition`, `training_goal`, and `training_availability`. Trainers have attributes including `trainer_id`, `trainer_name`, `gender`, and `specialty`. Activities are characterized by `activity_id`, `activity_name`, and `duration`. Trainings consist of `training_id`, `client_id`, `trainer_id`, `activity_id`, and `date`, with `client_id` referencing Clients, `trainer_id` referencing Trainers, and `activity_id` referencing Activities. Memberships include `membership_id`, `membership_name`, `price`, and `duration`. Payments are identified by `payment_id`, `client_id`, `membership_id`, `payment_date`, and `amount`, with `client_id` referencing Clients and `membership_id` referencing Memberships. Schedules comprise `schedule_id`, `trainer_id`, `activity_id`, `day_of_week`, `start_time`, and `end_time`, with `trainer_id` referencing Trainers and `activity_id` referencing Activities. Finally, Training Logs contain `log_id`, `training_id`, `action`, and `action_date`, with `training_id` referencing Trainings.

