**Vanier College**

**Faculty of Science & Technology**

**Application Development 2**

**420-431-VA**

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**Project Report**

FitWork

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# Project Aim and description

The goal of this project and the application is to allow users to discover different kind exercises for specific muscles, discover some healthy foods rich in specific nutrients, and also discover stretches or warmups for before and after a workout.

# Functional features:

* Motivational quote generator
* List of workouts
* List of exercises
* List of nutrients
* List of stretches or warmups
* Stopwatch for keeping track of laps

# Excluded features:

The main issue we had was trying to make the Map work. The Map was for tracking nearby gyms. Furthermore, since we did not have enough time to finish it, we decided to put that idea aside and make another page.

# Individual’s role and responsibilities:

## Work done by Mubeen:

* Sign in page and Sign up page
  + Workout Page: Add, Edit, Delete Workouts
* Exercises Page:
  + Add, Edit, Delete Workouts
* Profile Page
  + Edit username and Avatar
  + Password Reset
* Design for the UI

## Work done by Jericho:

* Profile Page
  + Display data
* Nutrition Page
  + Add, Edit, Delete
* Homepage
  + Motivational Quote generator from API
  + Timer
  + Picture of a sad dog

# Technologies Used

Since we have been learning how to use Flutter and Dart in Android Studio all semester, we decided to implement our app using the tools we were familiar with. Furthermore, we user Firebase and Firestore for our database. We also, user Firebase authentication for the login and forgot password (change password) feature, which interact with an actual email. So, if you are using a false email, you will not receive the email to change your password.

# Difficulties

The most difficult part for us was trying to understand Firebase and Firestore. We were having trouble storing and retrieving some specific data from the database. We are using Collection inside of Collection which made thinks easier for us to handle. However, it was not easy to learn. Once we figured that out, everything else became easy.

# User stories:

|  |  |  |
| --- | --- | --- |
| **As a(n)…** | **I want to be able to…** | **so that I can…** |
| User | Sign up | Sign into the app |
| User | Sign in | Access the app |
| User | edit my password | Change my password |
| User | view my profile | So that I can edit my username, avatar, and password |
| User | edit my username | Change my username |
| User | edit my profile avatar | Change my avatar |
| User | view the Home page | Go to the stopwatch |
| User | view the Timer page | Track my laps |
| User | Interact with the stopwatch | track my laps |
| User | view the Workouts | So that I can see the workouts |
| User | view the Exercises | So that I can see the exercises |
| User | view the Stretches/Warmups | So that I can see the warmups |
| User | view the Nutrients | So that I can see the nutrients |
| Admin | add a workout | View more workouts in the list |
| Admin | edit a workout | Change the name or image |
| Admin | delete a workout | Remove it from the list |
| Admin | add an exercise | View more exercises in the list |
| Admin | edit an exercise | Change the name or image |
| Admin | delete an exercise | Remove it from the list |
| Admin | add a nutrient | View more nutrients in the list |
| Admin | edit a nutrient | Change the name or image |
| Admin | delete a nutrient | Remove it from the list |

# GitHub Link:

<https://github.com/Mubeenkh/FitWork>