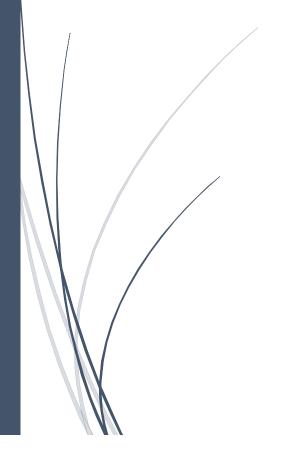10/20/2017

PAO REPORT

GROUP 01

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I.   APPLICATION DESCRIPTION:

- In today's world, healthcare is the most important parts of people's life. Further, without health, people won't have ability to do other things.
- However, some people find it difficult to manage their time, controllability over the amount of food consumed as well as the diet.
- That's the main reason we develop an application named Calorize to help people keep track of their health and we provide some procedure to support user aiming to their goal of fitness.

  ❖ Features:
  - Evaluate total calorie your body needs to get fit
  - Convert your meals into calories
  - Record your daily process
  - List out the information of your foods
  - Share your result to challenge your friends
  - Now supported Android 5.0 or newer

II.   TARGET USERS:

- In any country.
- Who desire to lose or put on weight.
- Who are already happy with their weight and want to stay fit and healthy.
- Who want to track their weight loss/gain progress.
- Who simply want to tell whether their diet is balanced and healthy enough.

III.   DEVELOPMENT ENVIRONMENT:

- Development environment: Android
- Technology development: Java
- Development tools:
  - Android Studio (ver 2.3.3)
  - Android SDK (Software Development Kit)
  - Java Development Kit (JDK ver 9.0)
- API levels:

  - Platform Version   API level
  - Android 7.1.1   26
  - Android 7.1   25
  - Android 7.0   24
  - Android 6.0   23
  - Android 5.1   22
  - Android 5.0   21
- Virtual machines:
  - Android studio: ADB (Android Debug Bridge), Virtual devices
  - Gennymotion
- Local database management system: Realm

IV. FEATURES ELABORATION:

- ***Sign up with facebook and create a profile***
  - When creating a profile, users must fill in the following information:
    - ✓ . Name
    - ✓ . Age
    - ✓ . Weight
    - ✓ . Height
  - The information above is used for calculating the amount of calories needed each day

- ***Convert food to calories***
  - Predefine a fixed amount of calories for each type of food
  - Let users choose which type of food and specify the amount (how many grams) for 3 meals per day
  - Then show the amount of calories, including:
    - ✓ The total amount of calories each day
    - ✓ The amount of calories that currently inputting

- ***Compare the amount calories needed each meal per day to the amount actually intaken***
  - Predefine a standard amount of calories needed for each meal base on users information
  - Compare with real-life data to inform users the result

- ***Recommend system***
  - If less calories than the standard: recommend food to eat
  - If more calories than the standard: recommend exercise to do

- ***Record data of each day***
  - Data include:
    - ✓ Amount of calories intake
    - ✓ A picture taken by users of their body (optional)
    - ✓ Weight/height

- ***Show progress:***
  - Display histogram of the calories intake per day of a period of time
    - ✓ . e.g. 1 week, 1 month, ...
  - Display detail information of 2 selected day for comparison
    - ✓ . e.g. day 1 vs day 30
    - ✓ . information showed: calories intake, weight, height, picture (optional)

- ***List information of a few food***
  - Show information of types of food
    - ✓ Beef contains n calories, n protein, n fat
    - ✓ Rice contains n calories, n protein, n fat
  - Allow search for type of food

- ***Share daily result to facebook***
  - Share how many calories user has already intaken today + user's picture (optional)