Work Breakdown Structure

I. General Information

Project name: Android Bar Code Scanner App
Date: 2019-01-20   Team Member(s): Hao Ye

II. Work Breakdown Structure: Identifying Sprints
Sprint 1:

- Total Sprint Estimation Time: 1 months
- Sprint Completion Date: Feb 2019

- **Activity 1:**
  - **Gather Knowledge:**
    - In this Activity, we will research on Android Development, database usage and management.
    - Since some of us are inexperience with, a majority of our time will be spent learning as much as we can about new technologies.
    - **Task 1: (>1 week)**
      - Review Java and Sql Language
    - **Task 2: (2-3 weeks)**
      - Read Textbook and online resources.
  - Total Estimation Time: 3 weeks
  - Completion Date: January 2018

- **Activity 2:**
  - **Installations:**
    - In this Activity, we will gather all the resources we will need to for the project, including any files or software we will use
    - **Task 1: (>1 day)**
      - Download an IDE to run/test Android programs
  - Total Estimation Time: >1 day
  - Completion Date: January 2018

- **Activity 3:**
  - **Classification**
    - In this Activity, we will get started on designing the interface of the app and start development process.
    - At this stage, members will be able to understand the terminology and the basics on Android development.
    - Using our knowledge, we will be able to create our own database.

    - **Task 1: (1-2 week)**
  - Total Estimation Time: 1-2 weeks

- Completion Date: January 2019

Sprint 2:

- Total Sprint Estimation Time: 6 weeks
- Sprint Completion Date: March - April 2018

- **Activity 1:**
  - **Implementation:**
    - In this Activity, we will begin coding and tunning.
    - **Task 1: (1 week)**
      - After deciding on how we will code (which could always change) we will start programming the neural network; documenting as we go along
  - Total Estimation Time: 4-5 weeks
  - Completion Date: March-April 2019

- **Activity 2:**
  - **Analyzing and Tuning:**
    - In this Activity, we will begin to scan some bar code at local store and store it into our database, we will also test our app in the local store.
    - **Task 1: (Unknown)**
      - Test data with our app
      - Document everything as we proceed
    - **Task 2: (Unknown)**
      - Slightly tune the database after every computation
      - Document everything as we proceed
  - Total Estimation Time: 2-3 weeks
  - Completion Date: April 2019

- **Activity 3:**
  - **Reviewing Code:**
    - By this activity, we would have created a Android application that is able to scan the bar code and shows the information about the product like price, available store and recommended store, now we will "clean up the code", it is also our last chance to make any last-minute changes that we wish to implement that we didn't prioritize (or think) until now
    - **Task 1: (1 week)**
      - Make any last-minute changes
    - **Task 2: (1 week)**
      - Finalize the implementation phase
  - Total Estimation Time: 1 weeks
  - Completion Date: April 2019