# Functionality

## Milestone 1: Proof of Concept

Front-end:
1. Guest Welcome Page
   a. Sign Up
   b. Sign In
2. Profile Page
   a. Items
      i. Drop down button for Profile
      ii. My Status [with roughly calculated calories]
      iii. My Trips [dummy data]
      iv. My Pins [placeholder without data visualization]

   b. Profile
      i. Sign out
      ii. Change Username/Password
      iii. Delete Account
3. Gallery Page
   a. Feeds
      i. Rendering backend trips (all, from one user)

Back-end:
1. Handle CRUD requests
   a. Sign Up
   b. Sign In
   c. Display Profile
   d. Display Trips
   e. Generate a Trip
   f. Show My Status
2. Dummy Database [embedded in the code, refresh as the server restarts]
   Manually generated, not real BlueBike locations

## Milestone 2: Minimum Viable Product

Front-end:
1. Gallery Page
   a. Feed all users published trips
   b. Upvote a trip
2. Profile Page
   a. Profile
      i. My Trips [dummy data generated from database]
   b. Trip
      i. Post a trip

3. Statistics and Data Visualization
   a. Community Status
   b. My Status [trip statistics and precisely calculated calories]
   c. Community Data Visualization

Back-end:
3. Handle CRUD requests
   a. Post a Trip
   b. Upvote a trip
   c. Show My Pins with visualization
4. Dummy Database [stored in the persistent database]
   a. Database for start and end locations based on real BlueBike API data
   b. Database for each users' trip (new trips are generated by randomly selecting locations)

## Milestone 3: Finished Product

Front-end:
1. Guest Welcome Page
   Better UI design [If time permitted: add interactive generative-art UI]
2. Vision Page & Team Page
3. Profile Page
   a. Polish UI
   b. My Pins [with data visualization based on other users' biking activities]
4. Community advanced features
   a. Comment
   b. Friend Group
   c. Following

# Tasks

1. Deployment
   Assignee
   Max
2. Guest Welcome Page basic features
   a. Sign In (cookies/session)
   b. Sign Up
   Assignee
          Front-end: Huiwen
          Back-end: Quinn
   Deadline
   11/16

3. Profile Page basic features
   a. My Status [with roughly calculated calories]
   b. My Trips [dummy data]

  c. My Pins [placeholder without data visualization]

  d. Profile Management (drop down, update info, delete, sign out, etc.)

<u>Assignee</u>

  Front-end: Huiwen

  Back-end: Max

<u>Deadline</u>

11/19

4. Feeds

  a. Rendering backend trips (all, from one user)

<u>Assignee</u>

  Front-end: Huiwen

  Back-end: Deniz

<u>Deadline</u>

11/19

5. Gallery Page MVP features

  a. Feed all users published trips (generative art)

  b. Upvote a trip

<u>Assignee</u>

  Front-end: Quinn

  Back-end: Quinn

<u>Deadline</u>

11/30

6. Profile Page MVP features

  a. My Trips [dummy data generated from database]

  b. Post a trip

<u>Assignee</u>

  Front-end: Deniz

  Back-end: Deniz

<u>Deadline</u>

11/30

7. Statistics and Data Visualization

  a. Community Status

  b. My Status [trip statistics and precisely calculated calories]

  c. Community Data Visualization

<u>Assignee</u>

  Front-end: Max & Quinn

  Back-end: Max

<u>Deadline</u>

11/30

8. Guest Welcome Page & Gallery Page advanced features
    a. Better UI design [If time permitted: add interactive generative-art UI]
    <u>Assignee</u>
        Front-end: Quinn
        Back-end: Max
    <u>Deadline</u>
    12/4

9. Profile Page Profile advanced features
    a. Polish UI
    b. My Pins [with data visualization based on other users' biking activities]
    <u>Assignee</u>
        Front-end: Huiwen
        Back-end: Quinn
    <u>Deadline</u>
    12/4

10. Gallery & Profile Page Community advanced features
    a. Comment
    b. Friend Group
    c. Following
    <u>Assignee</u>
        Front-end: Huiwen
        Back-end: Deniz
    <u>Deadline</u>
    12/8

11. Other advanced features
    a. Vision Page
    b. Team Page
    <u>Assignee</u>
        Front-end: Huiwen
        Back-end: Max
    <u>Deadline</u>
    12/8

**A brief paragraph explaining what you will do if something goes wrong:**

We will remind each other the upcoming deadlines in each weekly team meeting, and ensure that we have made a proper amount of progress. Since we have pair-programming for most of our tasks, we will try to help each other out if anyone finds it difficult to meet deadlines. If in extreme circumstances we still miss the deadline, this would not be a time to blame anyone, but rather to consider how we can better allocate our tasks and time.

In terms of specific tasks, all the tasks before Milestone 1 are required, but My Trips and Profile Management implementations can be placeholders and can be pushed to the next milestone. For the MVP Milestone, Statistics and Data Visualization can be completed in the next milestone or implemented in relatively simple forms. For the last milestone, besides completing the tasks that we postponed to this milestone, functionalities related to the concept of following are also required. Then, we will polish our UI design and implement additional functionalities depending on the time we have.