Software plan

1.0 Scope

Bark-in is a social networking application that allows dog owners to schedule visits to parks as well as view what other dogs will be at the park at that time. Owners can view various traits about the dogs such as temperament, size, vocalization, etc. The application will also allow park visitors to post reviews and ratings of the various dog parks that they visit, based on maintenance and cleanliness, as well as view how busy the parks are at various times and days of the week. The main purpose of the application is to allow dog owners to decide whether they want to visit a specified dog park at a given time based on what dogs are/will be there and user reviews about the park.

1.1 Functions

- *Users will be able to create profiles for themselves and their dogs.*
- *The profiles will contain personality and physical trait information.*
- *Users will be able to link their profiles with their dogs' profiles.*
- *Users will be able to schedule a time slot when they will be at a dog park.*
- *Users will be able to see the profiles of other dogs that are also scheduled.*
- *Users will be able to view how busy a park is at a given time and day.*
- *Users will be able to read and leave reviews for a given dog park.*

1.2 Performance

- *Bark-in will be hosted on a server capable of storing a scalable amount of user and dog profiles.*
- *Bark-in will have database storage for dog park information and user/dog profiles.*
- *The server will have a starting capacity of up to a thousand concurrent users.*
- *The application will be able to perform queries to the server for updates on park information.*

1.3 Limitations

- *Bark-in will not monitor real-time user location.*
- *Bark-in will not be able to organize groups and meetups.*
- *Bark-in will only store information for dog parks based in the greater Pittsburgh area.*

2.0 Tasks

2.1 User Interface

- *The front-end programmer will be assigned to this task. They will work on the frontend of the application to create an effective and clear interface for the end user.*

2.2 Database Management

- *The back-end programmer will be assigned to this task. They will work on the backend of the application to create a database to collect and store user information, geo-data on parks, and other necessary data. The database must also be able to connect with the frontend through the application.*

2.3 Data Mining

- *The data-miner will be assigned to this task. They will work on finding all dog parks and entering them into the system.*

2.4 Testing

- *Everyone is assigned to test a certain part of the application. However, they will not test their own code or user experience.*

3.0 Resources

3.1 Hardware

- *Various personal desktop computers, laptops, tablets, and smartphones.*

3.2 SOFTWARE

- *Discord for communication.*
- *GitHub for version control.*
- *Google Drive for document sharing.*
- *Visual Studio 2019*
- *Django*
- *Bootstrap*
- *Windows SQL Database*
- *HTML 5, CSS 3, JavaScript, and Python*

3.3 PEOPLE

Project Roles	**The **tester** roles are for all parts unrelated to their own*
Jacob Haldeman	● Project Manager ● Salesperson ● Presenter ● Tester
Ian Lundberg	● Document Specialist ● Data Miner ● Tester
Rob Corbett	● Front-end Programmer ● GUI Programmer ● Tester
Turner Halligan	● Back-end Programmer ● Tester
Connor Kalina	● Application Programmer ● Tester

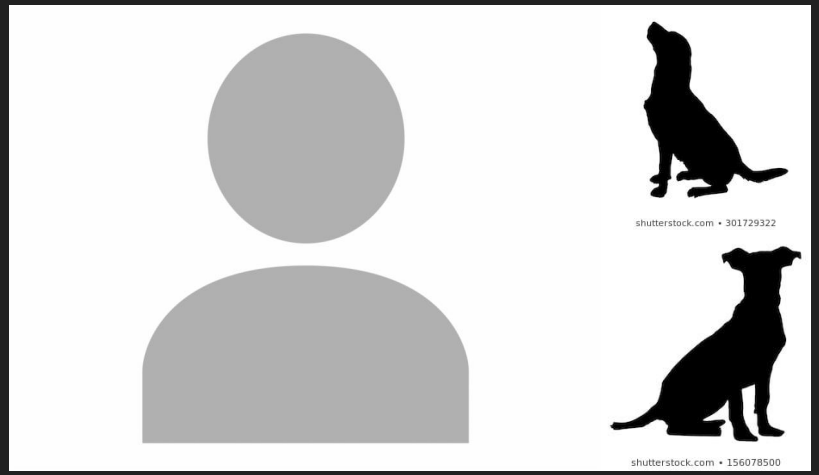
Bark-in

Connecting your best friend to their best friends

Bark-in is a social network that allows dog owners to decide when to go to dog parks based on how busy the park is and what other dogs are there.

Profiles

- Profiles for both dogs and owners
- Include size, breed, age, and temperament
- Owners link their profile to their dogs’



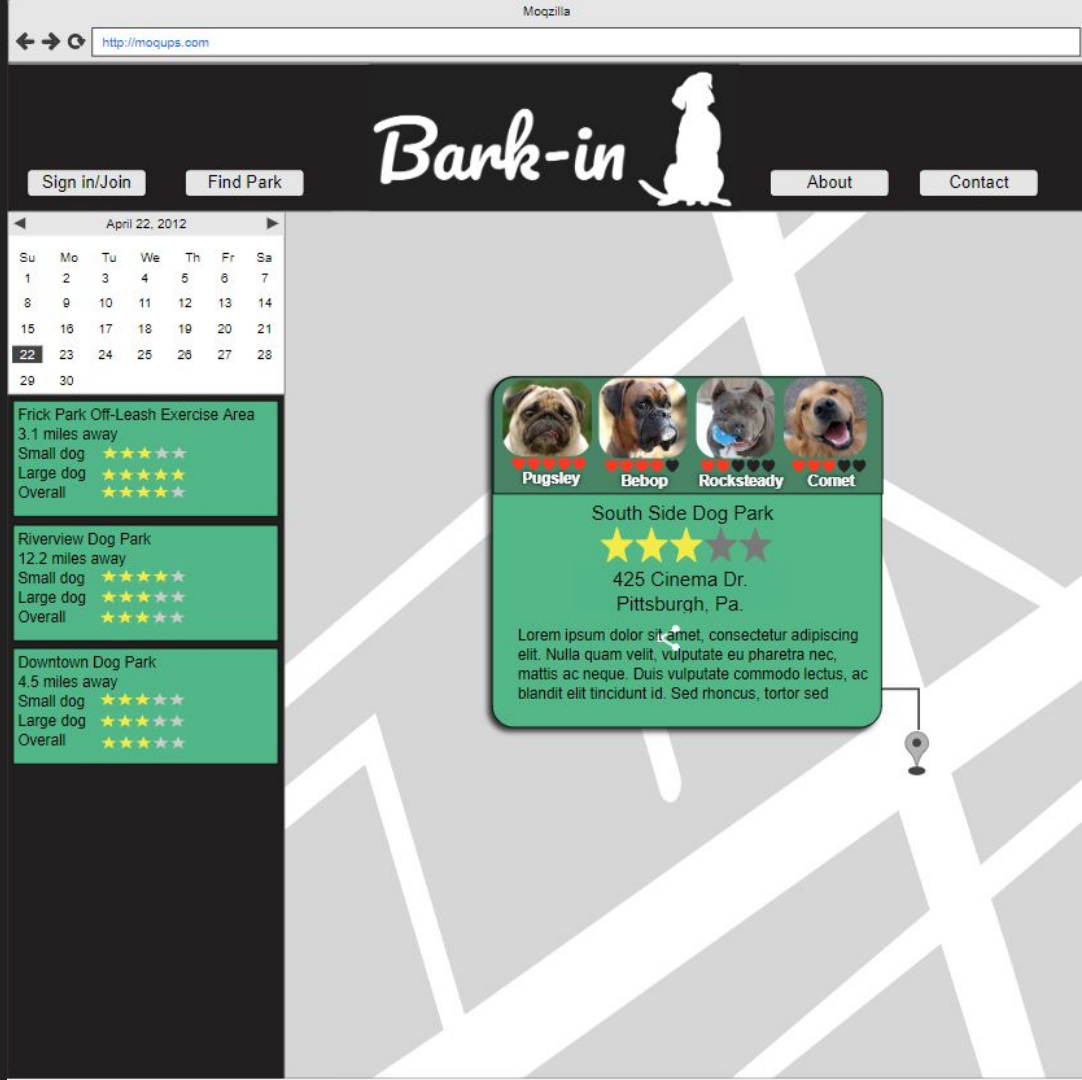
Scheduling and Checking-in

- Users can schedule a visit to a park
- Users will be able to see what other dogs will be there at that time
  - Number of dogs
  - Breeds
  - Sizes
  - Temperaments

Park Information

- Users can leave reviews for parks
- Show hours, cleanliness, maintenance, size
- Users can report on dogs that are not in the app
- Use data from user schedules to show when parks are busy

Mockup


Moqzilla
http://moqups.com
Bark-in
Sign in/Join
Find Park
About
Contact
April 22, 2012
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30
Frick Park Off-Leash Exercise Area
3.1 miles away
Small dog
Large dog
Overall
Riverview Dog Park
12.2 miles away
Small dog
Large dog
Overall
Downtown Dog Park
4.5 miles away
Small dog
Large dog
Overall
Pugsley
Bebop
Rocksteady
Comet
South Side Dog Park
425 Cinema Dr.
Pittsburgh, Pa.
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Wishlist

- Real time check-ins to parks
- Messaging between users
- User levels, tags, or badges to incentivize people to check in and schedule
- Automatically recognize trends at parks

Project Roles

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Document Specialist / Data Miner / Tester

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