Northeastern University

P1. PROJECT PLAN

THE BOSTON BLUEBIKE PROJECT

PROJECT GROUP 15

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BACKGROUND

BlueBikes is an exciting and affordable way to get around in Boston, Massachusetts. This service enables individuals to rent a bike with just a tap on the bluebike app, from a dock station, use it and return it at a dock station of their choice. It is a healthy commute option which is also environment friendly, dependable, and available at a minimal cost to the people living in Boston. The city has approximately 400 stations and 4000+ bikes, still growing rapidly. Our dataset includes bike ride data from earlier this year and includes information about riders, rides, and stations along with times and time durations which will help us analyze and answer a few interesting questions.

MISSION STATEMENT/OBJECTIVES

The objective of our database project would to be find out the rider details against the trip statistics including the most used stations, most frequent routes, trip durations and the overall usage of the bikes. A few of the many questions we would like to answer through our analysis would be:

1. What is the average duration for which a rider rents a bike?
2. What is the most frequently accessed station?
3. What are the rush hours?
4. What are the busy bluebike days in the week?
5. What is the ride count against the riders' age and gender?

DATA MODEL: ArangoDB Multi-Model (Graph + Document + Key value)
PLATFORM: Local