



Group #5 - Fall 2022 Demo Day

# HowBusylsMarino.com

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# Project Description

Plan your next workout effortlessly.

Project description:

**HowBusyIsMarino.com** is a website summarizing Marino activity over previous periods of time that produces graphical predictions for future capacity at Marino. This allows users to plan their future workouts accordingly. We also have information about SquashBusters!



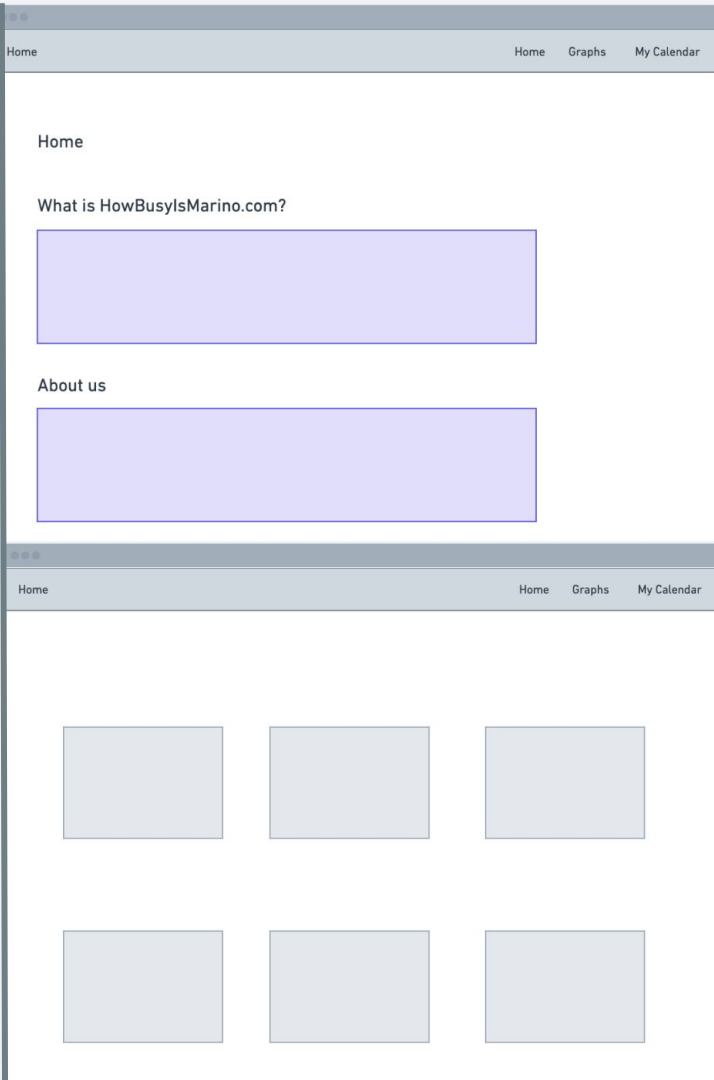
# Design Process

## Essential features:

- Graphs for capacity averages for every central Marino area + Squashbusters
- Home page with descriptions

## Features dropped:

- Personal calendar option
  - We thought that while it was helpful, it was not essential to the functionality of our website and would be a future feature we'd incorporate



# Process Part 1: Back-End

## Technologies/languages used:

- Python(Flask)
- JS for graphs(Plotly)
- AWS server to automate web scraping and as a host

## Struggles and steps:

- Figuring out web scraping
  - Long process, explored different methods but landed on Beautiful Soup to retrieve the data
- Familiarizing ourselves with creating an AWS server to regularly scrape data
- Backend work with flask to format and organize scraped data
- Actual graphing- bar graphs were our backup plan but we used heat maps for better data graphing
- Domain name

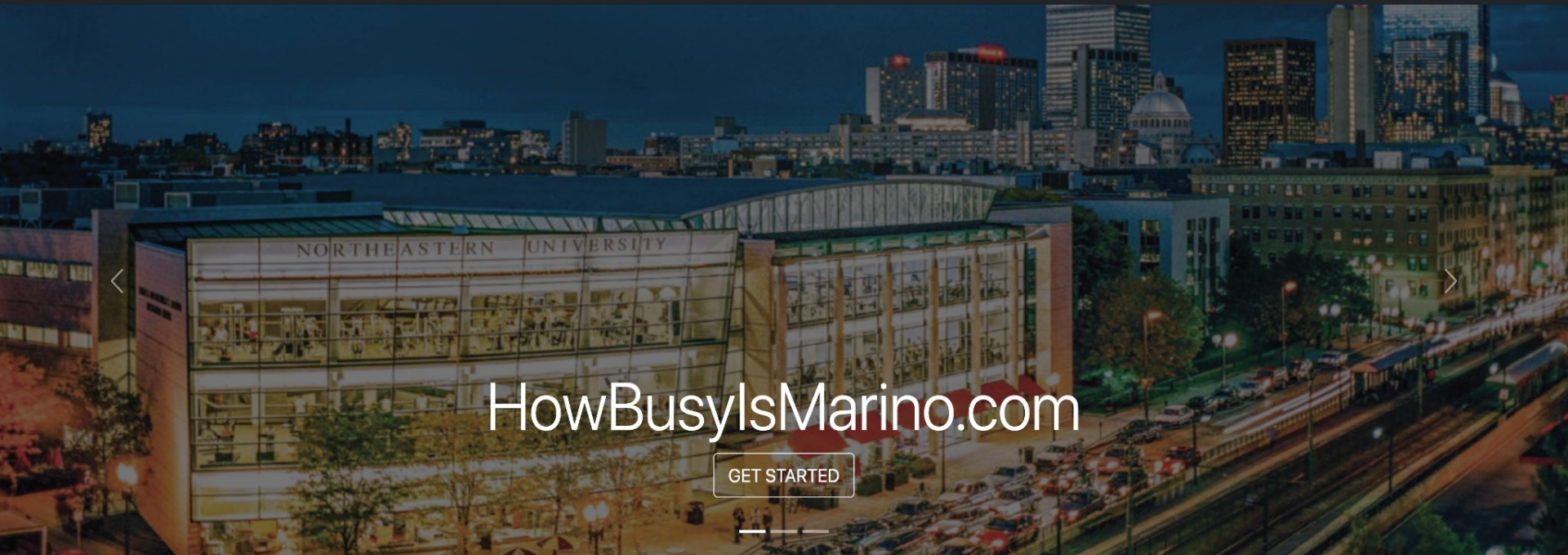
# Process Part 2: Front-End

## Technologies/languages used:

- CSS
- HTML
- JS
- Bootstrap

## Struggles and steps:

- Choosing Bootstrap over React
- Making the website visually appealing by exploring different parts of bootstrap
  - Logo design/insertion
  - Features such as carousel, etc
- Inserting JS files for heat maps



# HowBusysMarino.com

[GET STARTED](#)

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## About Us

We are 4 Northeastern students who wanted to know when it is best to go to Marino. Most of the time, we could look at the current Marino capacity data, but that was not efficient enough for us. We wanted to be able to plan out future workouts based on previous data. This website was our solution.



## What Now?

Continue to the graphs tab above to start learning about Marino capacity trends!

LET'S GO!





Marino Center - 2nd Floor



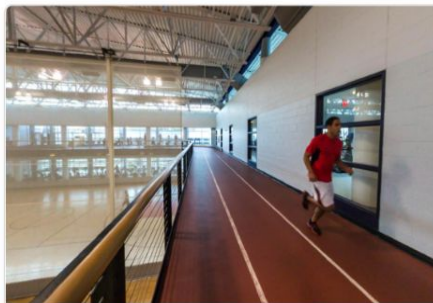
Marino Center - Gymnasium



Marino Center - 3rd Floor Weight Room



Marino Center - 3rd Floor Select & Cardio



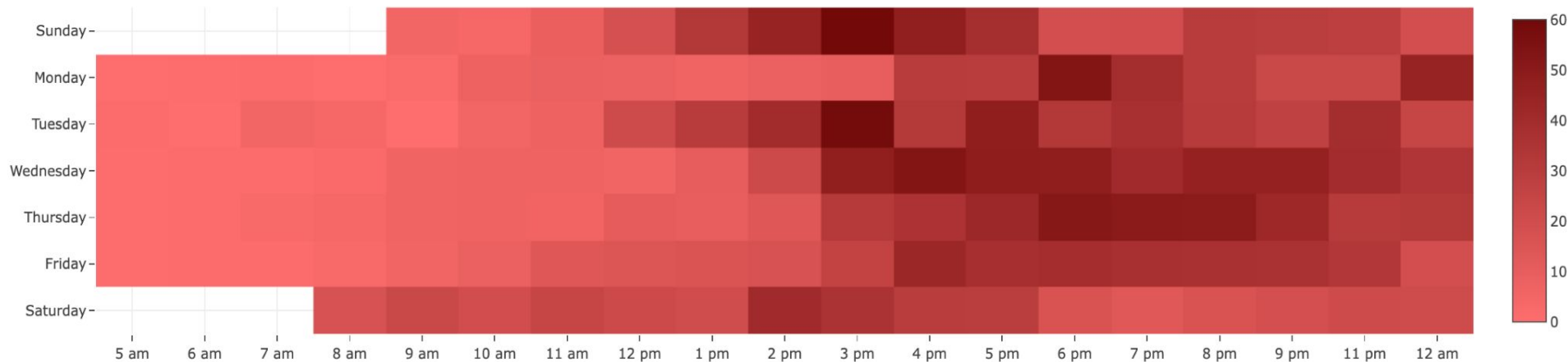
Marino Center - Track



SquashBusters - 4th Floor



Marino Center Gymnasium Average Capacity



# Lessons Learned

## Lessons we learned/highlights:

- Backend design isn't as intimidating as we thought!
- Perseverance leads to success
- Web design is fun!
- Good planning and teamwork are key

## Future additions:

- Personal calendar option
  - Allows users to input their free time/workout preferences and gives them recommendations of where/when to go based on our data



*Thanks Ryan!*

