



TRUST THE TICKETS.

Tickets by the fans, for the fans

Senior Project Demo

Anthony Orio,
Chris McKane,
Curtis Baillie,
Derek Gaffney,
Jon D'Alonzo,
Tom Harker

25% - 35 %

Is the “service” charge most ticket websites charge

Project Background

- Fans are always looking to buy & sell tickets for their favorite sports teams
- High-profile ticket sites like Ticketmaster and StubHub exist, but...
 - These sites impose hefty fees to process transactions between local fans
 - Typically between 15% and 25% for the buyer, and at least 10% for the seller
 - Finding tickets can take a large amount of time, and these websites often don't offer customized information for each team/venue
- Alternative sites like Craigslist don't garner as much user trust

Our Goal:

- To create a website that allowed Philadelphia sports fans (specifically 76ers fans) to purchase tickets easily, with more knowledge of what they are getting, and with much cheaper fees.
- Accomplished this by:
 - Filter tickets based on perks specific to 76ers games, such as Early Entry Access.
 - Charging buyers a processing fee that is less than half of Stubhub's fee.
 - Creating a simpler way to find the game you want to go to, and the tickets you want for that game.

Customer Use Cases:

- Season ticket member can list tickets
 - Can select ticket attributes for their listing, such as aisle, handicap, or early entry
- Prospective buyer can search for a game:
 - By team
 - Using the calendar.
 - This set up allows the customer to always be able to get to the game that they want with 3 clicks.
- Buyer can utilize filtering to quickly find the tickets they're looking for
- Buyer can easily purchase and see all fees on their checkout page

Technologies

Frontend

- React.js using create-react-app
- React-Bootstrap UI Components
 - Responsible for user interface, interaction, and presentation

Backend

- Python REST API service using Flask
 - Serves data from MySQL to React

Database

- MySQL

Hosting

- Amazon AWS
 - EC2, RDS, VPC, S3

Demo

TrustTheTickets.com

Mobile Screenshots

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TRUST THE TICKETS.



Calendar

Teams

My Account



TRUST THE TICKETS.

Tickets by the fans, for the fans

Check out our three searching methods below to find tickets to your next game, and Trust the Process.



Not sure when to go? Search our
Event Calendar!

Let's go!



Want to see a particular team?
Search by opponents!

Let's go!



ustthetickets.com

1



TRUST THE TICKETS.



Log In

Email address

derekmgaaffney@gmail.com

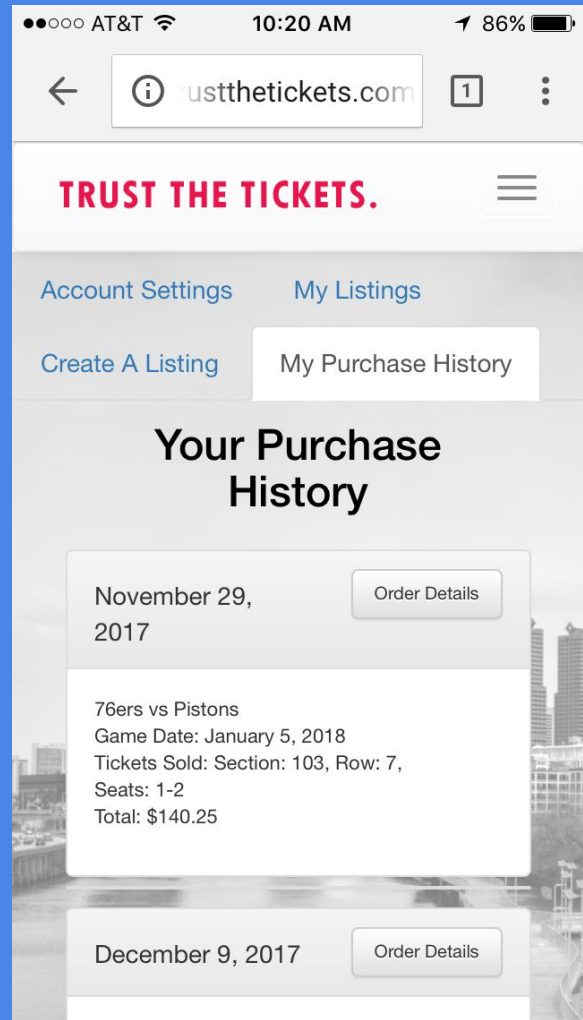
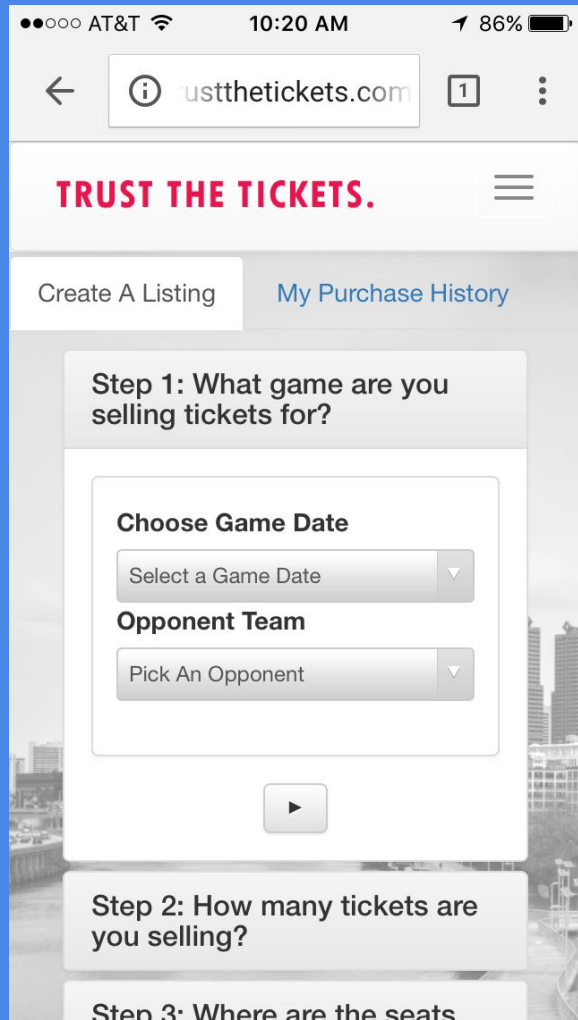
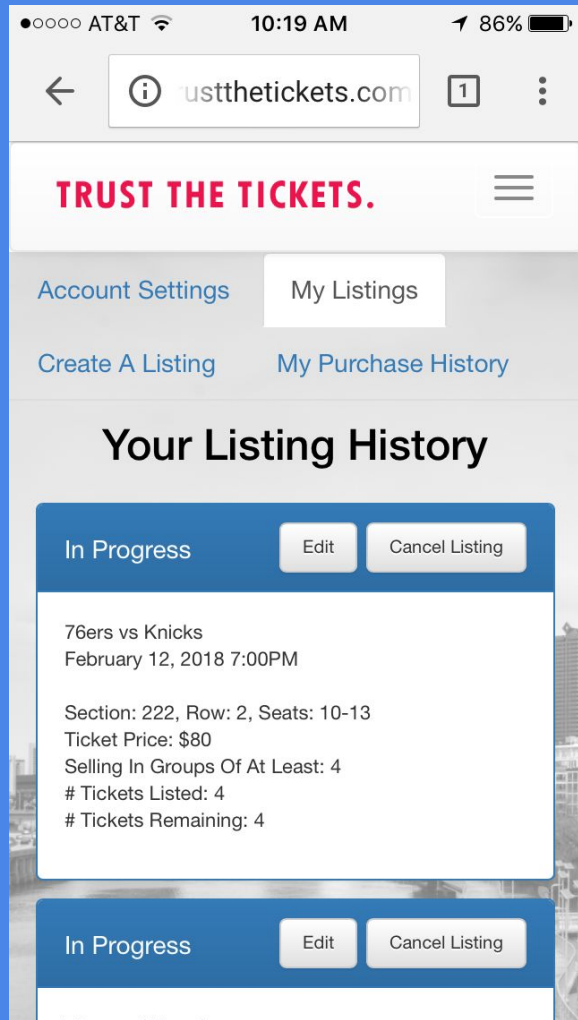
Password

••••••••••••••••

Log In

Don't have an account?

[Register here.](#)










●●○○○ AT&T 8:49 PM 96%

← trustthetickets.com/ev 1

TRUST THE TICKETS.

Choose Your Game

today back next December 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	01	02
03	04 	05	06	07 	08	09 
10	11	12	13	14 	15	16
17	18	19 	20	21 	22 	23
24	25	26	27	28	29	30
31	01	02	03	04	05	06

Game Details

Pistons vs. 76ers

Saturday, December 2nd

Tip-off at 7:30PM

32 tickets available

Tickets starting at \$78

Suns vs. 76ers

Monday, December 4th

Tip-off at 7:00PM

54 tickets available

Tickets starting at \$78



View Tickets

●●○○○ AT&T 10:25 AM 84%

← trustthetickets.com/ve 1

TRUST THE TICKETS.

Choose Your Opponent






Select a team logo to find your game

●●○○○ AT&T 10:26 AM 84%

← trustthetickets.com/ve 1

TRUST THE TICKETS.

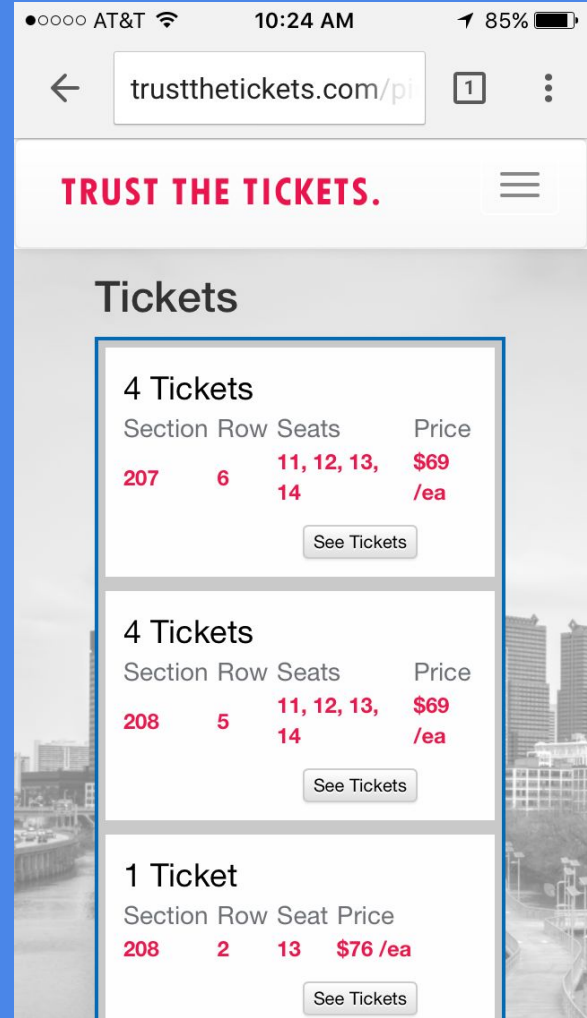
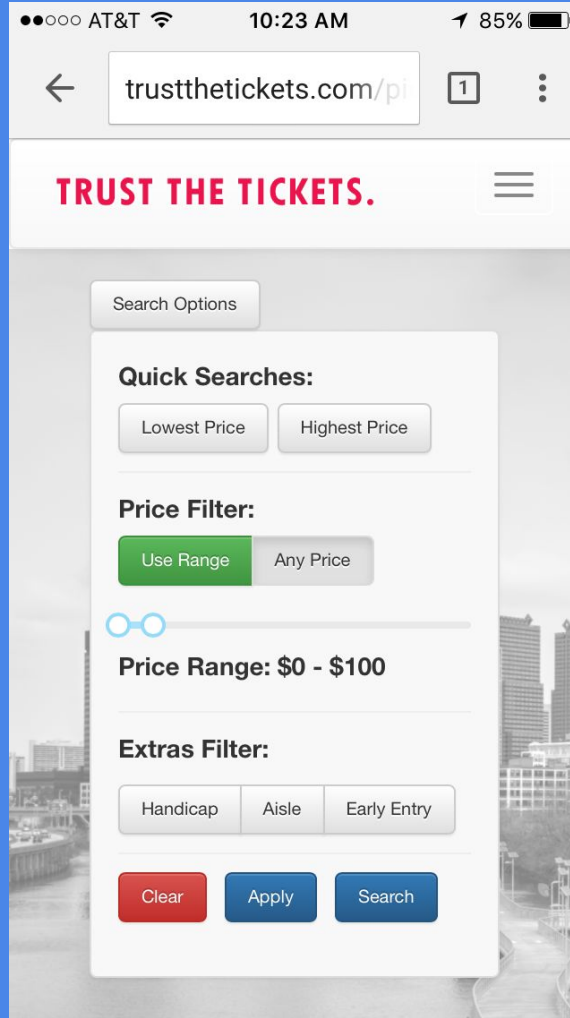
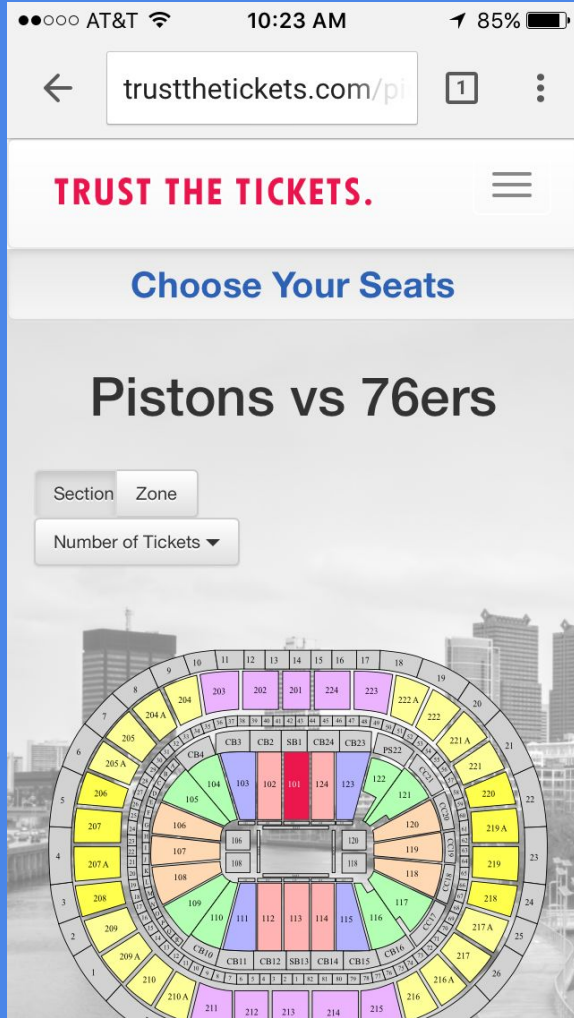
Choose Your Opponent



Bucks vs 76ers

20
January
7:30PM

11
April
8:00PM





trustthetickets.com/pi

1



Tickets for sale

Section: 207 Row: 6 Price: \$69.00 /ea

Seat: 11



Seat: 12



Seat: 13

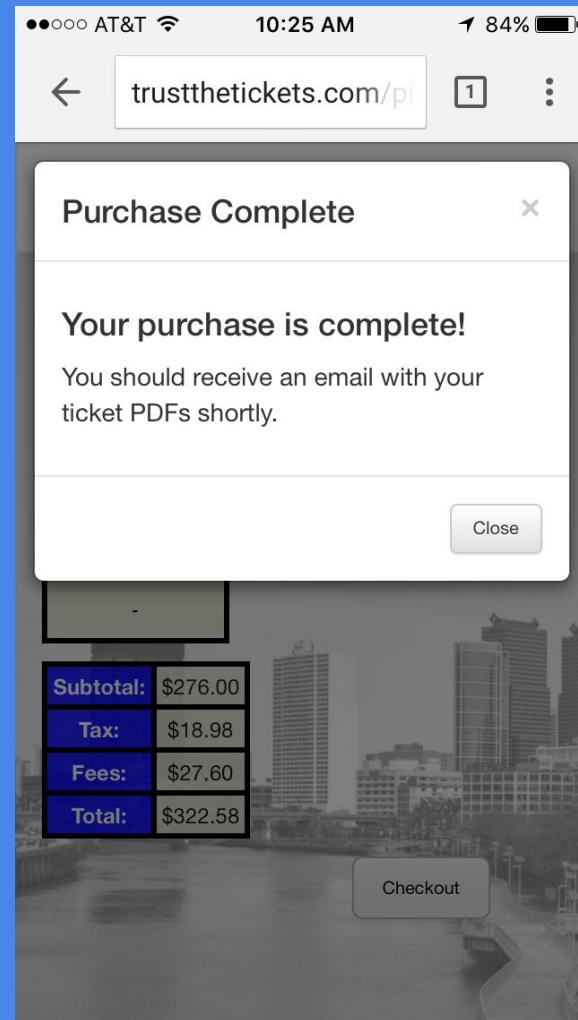
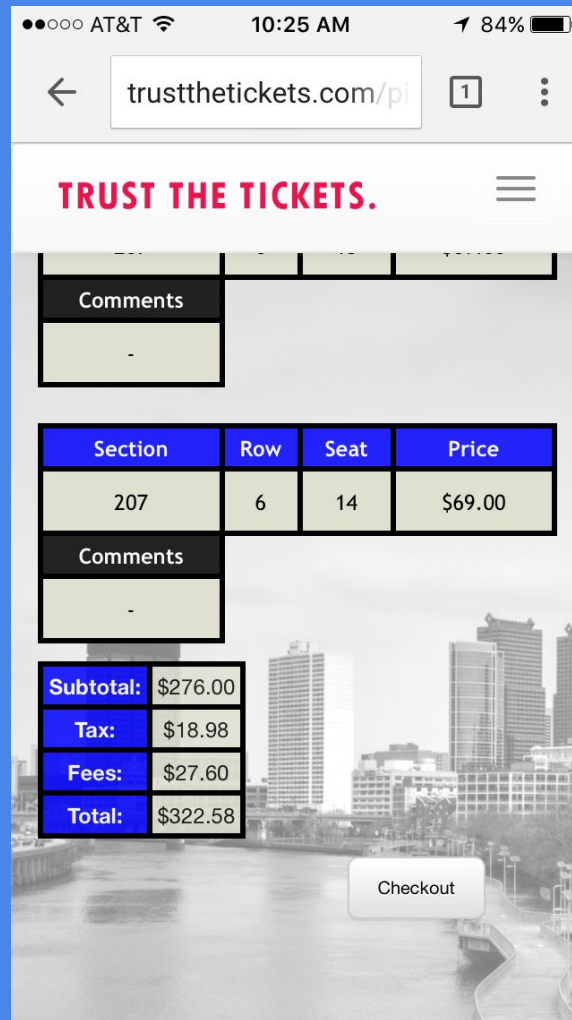
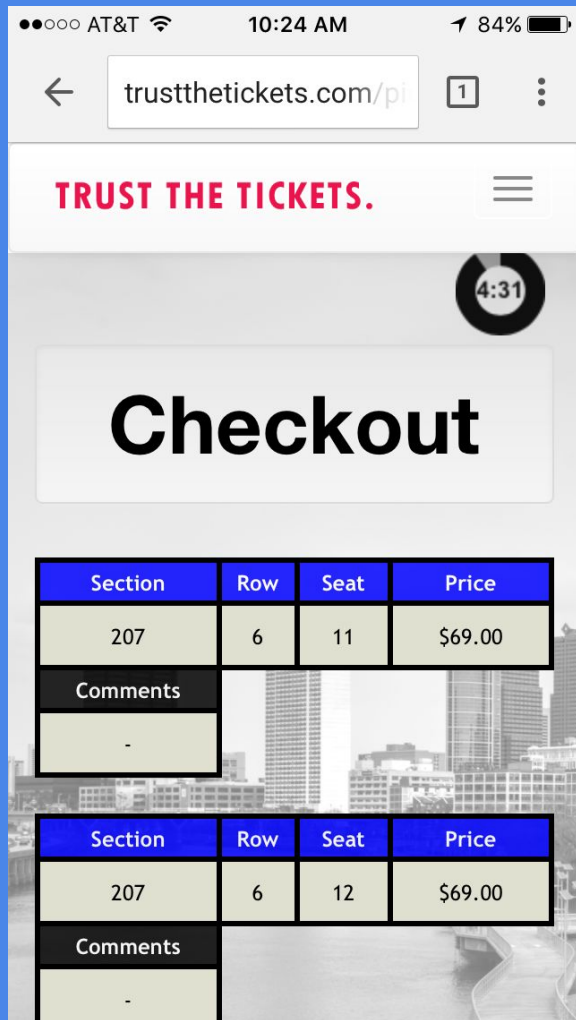


Seat: 14



Buy

Close



Interesting Technology Components

PDF Interface

For a ticket website, uploading tickets and emailing tickets is a requirement.

Since buyers can buy individual tickets in listings, tickets must be split somehow

PDF Interface

Utilized AWS S3, Python Boto and PyPDF libraries to solve this problem

- On listing creation, user uploads a pdf file with x tickets
 - PyPDF library splits the pdf file into individual files, 1 per ticket
 - Use Boto library to upload each ticket to our AWS S3 bucket with its unique ticket_id as the key

Amazon S3 > ttt-ticket-bucket

Overview

Properties

Permissions

Management

🔍 Type a prefix and press Enter to search. Press ESC to clear.



Upload



Create folder

More ▾

US East (N. Virginia)



Viewing 1 to 71

<input type="checkbox"/>	Name ↑ ▾	Last modified ↑ ▾	Size ↑ ▾	Storage class ↑ ▾
<input type="checkbox"/>	📄 2468	Dec 8, 2017 9:45:35 PM GMT-0500	69.6 KB	Standard
<input type="checkbox"/>	📄 2469	Dec 8, 2017 9:45:35 PM GMT-0500	69.6 KB	Standard
<input type="checkbox"/>	📄 2470	Dec 8, 2017 9:45:35 PM GMT-0500	69.6 KB	Standard
<input type="checkbox"/>	📄 2471	Dec 8, 2017 9:45:35 PM GMT-0500	69.6 KB	Standard
<input type="checkbox"/>	📄 2472	Dec 8, 2017 9:45:35 PM GMT-0500	69.6 KB	Standard
<input type="checkbox"/>	📄 2473	Dec 8, 2017 9:45:35 PM GMT-0500	69.6 KB	Standard
<input type="checkbox"/>	📄 2474	Dec 8, 2017 9:45:35 PM GMT-0500	69.6 KB	Standard
<input type="checkbox"/>	📄 2475	Dec 8, 2017 9:45:35 PM GMT-0500	69.5 KB	Standard

PDF Interface

Utilized AWS S3, Python Boto and PyPDF libraries to solve this problem

- During transaction
 - Boto library used to download each ticket in the transaction
 - PyPDF library bundles the ticket pdf files into one pdf file
 - That total pdf file is then emailed to the buyer

Handles the pdf file interface seamlessly

Handling Race Conditions

For this project, we had to consider the case where two or more users simultaneously attempt to purchase the same tickets.

Two part strategy

- Trigger procedure to set a database field, called ticket status, to “Locked” for five minutes.
- If the user purchases the ticket, then change ticket status to sold. Else if the user backs out or time runs out, then return ticket status to available.

Developing for Desktop and Mobile

- React-Bootstrap
 - Look and feel of Twitter Bootstrap
 - Uses Facebook React.js Framework
- Use of CSS and media queries

Personal Takeaways

Anthony: "Create solid code as it may be used in other parts of the website."

Chris: "I have a stronger understanding for web development that I can use."

Curtis: "Check for libraries that already do what you want BEFORE creating it."

Derek: "There is never enough time for design... But the data model held up!"

Jon: "Learn the language before, instead of using the method, 'learn as you go'."

Tom: "Develop for mobile first!"

The End

Questions?

Thank you!