



Measure What Matters

Take your game to the next level, using data.

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Project Background

- Collecting stats by hand is inefficient and limits data collection ability
- Create a simple UI to make stats collection easier
- Assist coach in making decisions using detailed statistical reports
- Extendability and reliability



Ayub ('Jack of all trades') Ahmed



Frontend

Backend

Bard ('I'll do it') Samimi



Backend



Chloe Shang



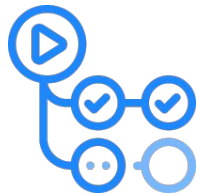
Frontend

Taylor ('who's on meeting minutes') Zowtuk



Frontend

Joe ('just Joe') Potentier-Neal



- Backend
 - Architecture
 - Database Design
 - Deployment

Experiences



- Planning went well, and all parts were completed
- Trouble was realizing the most efficient path forward

- Completed all must haves
- Took on too many user stories for one sprint
- Chose technologies that were new to some members, slowing down progress

- Finish what was missed in Sprint 2
- Rebalanced team to have more front end developers
- More game events
- More reports

- Cleaned up UI
- Better error handling
- End-to-end testing
- Deployed
- Documentation

Account Functionalities

Signup

First Name

Last Name

Username

Password

Confirm Password

[Log in](#)

Login


Username


Password

[Sign up here](#)

Account Information

Username:

First Name: 

Last Name: 

Team Functionalities

MVVM

First Name	Last Name	Jersey Number
Aamnah	Hood	1
Abdoun	Connor	2
Khaleesi	Harrison	3
Umar	McIntyre	4
Wayne	Townsend	5
Marco	Lu	6
Theodor	Levine	7
Karl	Quigley	8
Pat	Heenan	9
Samir	Prasad	10
Mohamed	Brigand	11
Jeremy	Oliver	12
Kara	Kingstley	13
Orlando	Brown	14
Michael	Boonin	15
Leonardo	McGinnis	16
Robert	De Niro	17
Bill	Pa	18
Michael	Carte	19
Mark	Quarant	20
Tom	Hanks	21
Christian	Slack	22
Al	Pacino	23

team22

First Name	Last Name	Jersey Number
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Add A New Team

Team Name *

Player First Name Player Last Name Player Number

Player Name Player Number

Edit Roster

First Name	Last Name	Jersey Number	
Aamnah	Hood	1	<input type="button" value="✍"/> <input type="button" value="🗑"/>
Abdoun	Connor	2	<input type="button" value="✍"/> <input type="button" value="🗑"/>
Khaleesi	Harrison	3	<input type="button" value="✍"/> <input type="button" value="🗑"/>
Umar	McIntyre	4	<input type="button" value="✍"/> <input type="button" value="🗑"/>
Wayne	Townsend	5	<input type="button" value="✍"/> <input type="button" value="🗑"/>
Marco	Lu	6	<input type="button" value="✍"/> <input type="button" value="🗑"/>
Theodor	Levine	7	<input type="button" value="✍"/> <input type="button" value="🗑"/>
John	Quarant	8	<input type="button" value="✍"/> <input type="button" value="🗑"/>


Match Creation

Create A Match

Team
None ▼

Opponent Name

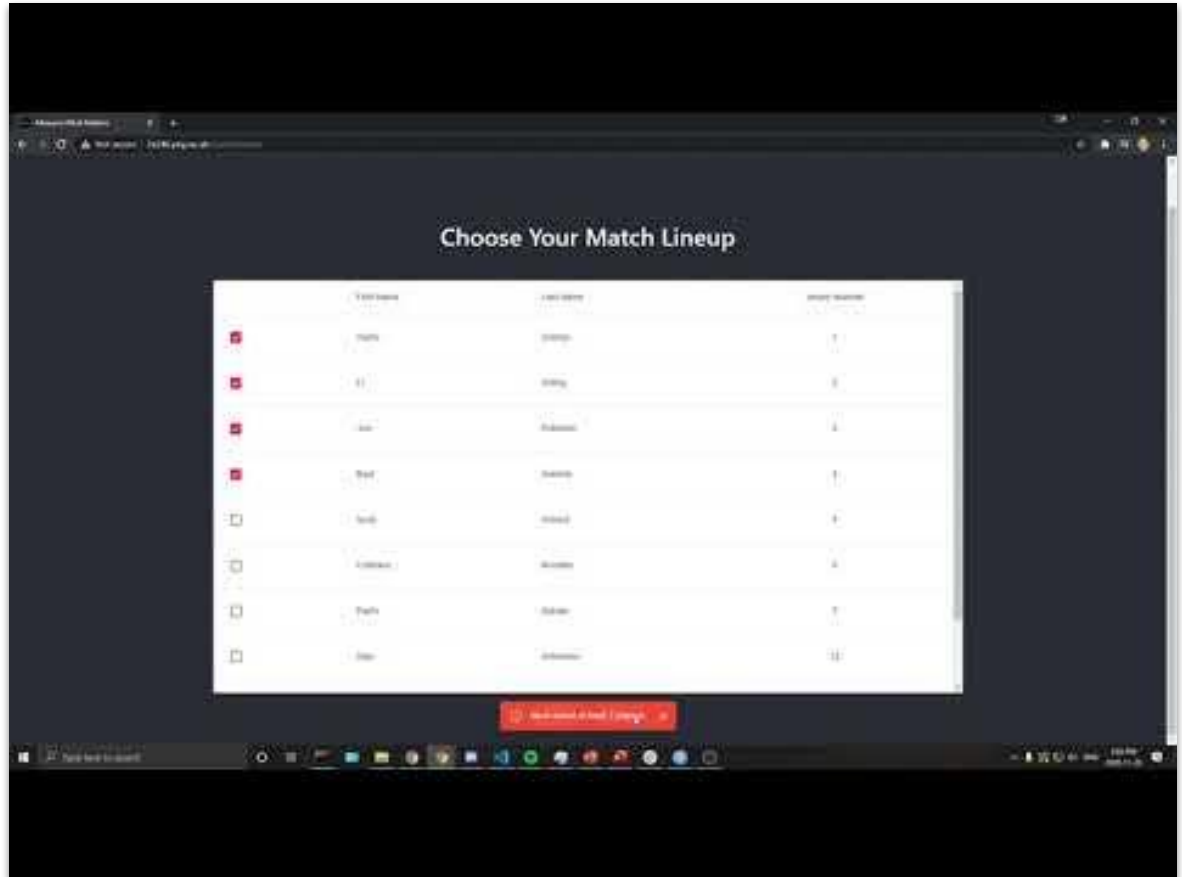
Game Venue
Home ▼

When
2020-11-01 10:30 AM 

CREATE MATCH

BACK

Recording Screen



<https://www.youtube.com/watch?v=Z0JGxdxM1kk>

Reports

Plus Minus

First Name	Last Name	Jersey Number	Plus Minus
Taylor	Zowtuk	1	1
Li	Shang	2	-1
Joe	Potentier	3	1
Bard	Samimi	4	3
Ayub	Ahmed	5	1

Lineup for Goals

opponents goal

Goal

Line During Goal

- Taylor Zowtuk, Li Shang, Joe Potentier, Bard Samimi, Ayub Ahmed, Cristiano Ronaldo
- Taylor Zowtuk, Li Shang, Joe Potentier, Paolo Dybala, Ayub Ahmed, Cristiano Ronaldo
- Taylor Zowtuk, Bard Samimi, Joe Potentier, Paolo Dybala, Ayub Ahmed, Cristiano Ronaldo
- Taylor Zowtuk, Bard Samimi, Joe Potentier, Paolo Dybala, Li Shang, Cristiano Ronaldo
- Taylor Zowtuk, Bard Samimi, Joe Potentier, Paolo Dybala, Cristiano Ronaldo, Ayub Ahmed
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Possession Time

First Half

43%

Second Half

68%

Overall

56%

Time on Field

Player Name	Player Number	Minutes Played
Taylor Zowtuk	1	10
Joe Potentier	3	10
Bard Samimi	4	9.4
Ayub Ahmed	5	9
Li Shang	2	8.8

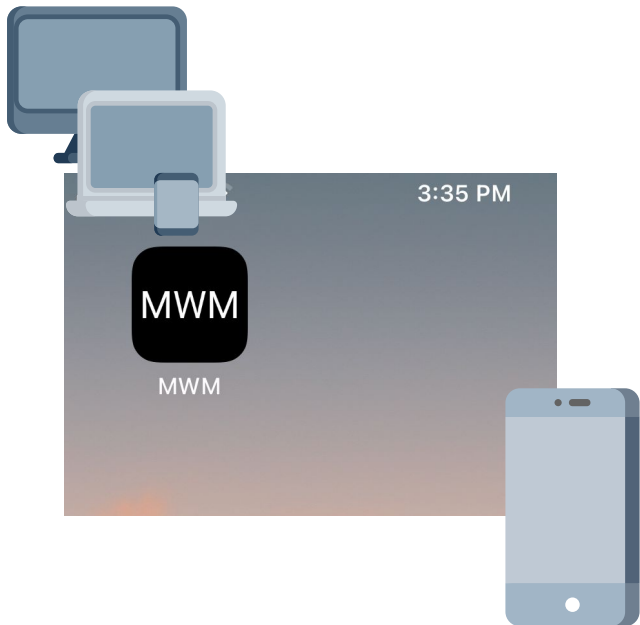
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Number of Touches

Player Name	Player Number	First Half Touches	Second Half Touches	Overall Touches
Ayub Ahmed	5	3	14	17
Li Shang	2	3	12	15
Joe Potentier	3	2	11	13
Bard Samimi	4	3	9	12
Paolo Dybala	7	3	6	9

Rows per page: 5 1-5 of 7

Frontend



- Single-page application
- Responsive design (from mobile to desktop)
- Progressive Web App
- Offline functionality via caching
- Drag and drop

Backend + Data Layer



- Uses NodeJs 14
- The NestJS API framework
- Typeorm
- PostgreSQL Database
- PM2 Process Manager

Lessons Learned

Estimation

Overestimated amount of tasks that we could complete in a single sprint

Break Down User Stories

Realized gaps in the app well into development



A blue-tinted photograph of two soccer players standing on a grass field. A soccer ball is positioned on the ground between their feet. The image is used as a background for text.

Questions?

Measure What Matters

Take your game to the next level, using data.