# C\_Scores

# Summary

All HMC students taking Software Development or the Clinic program take Parker Team Player Score survey at the start of these courses. The C\_Scores app aims to help users learn more about what makes a good team and construct better teams.

### Architecture

We used Ruby on Rails to create the web application. Important technologies and their roles are:

- D3 JavaScript library responsible for creating graphs
- Devise Ruby gem used to create user accounts and security
- Python Prediction is handled by a python script.
   SQLite Database
- Bootstrap For CSS styling

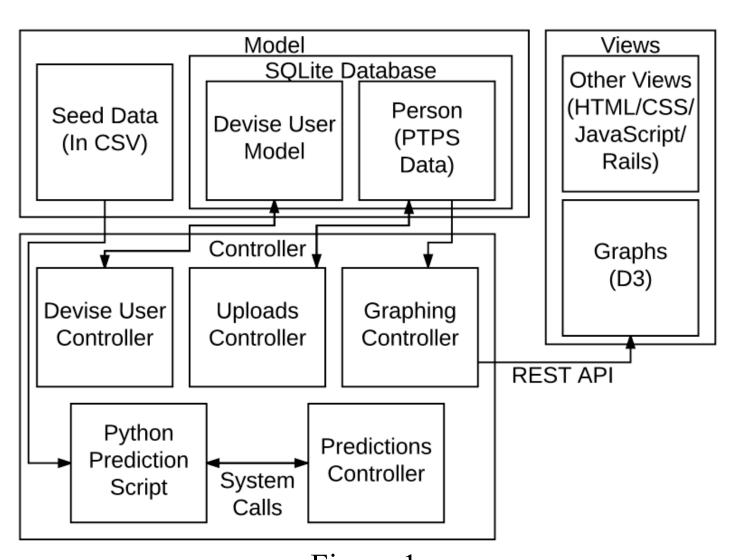


Figure 1. Architectural model.

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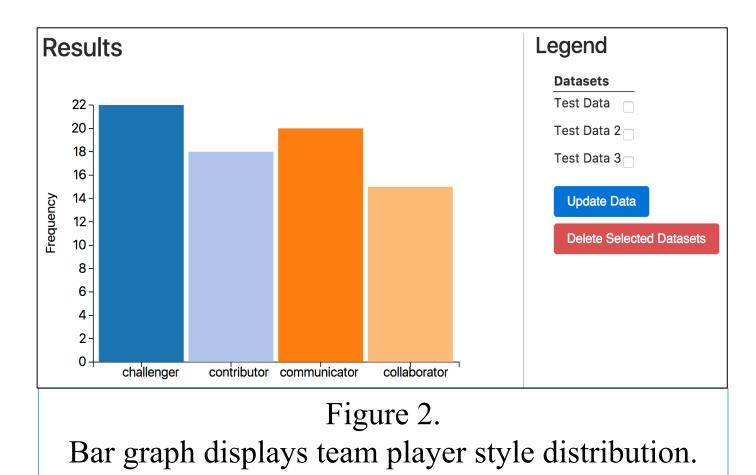
Client: CS 121 and Clinic Staff



# Functionality

#### **Insights**

After uploading data, the user can view two graphs and statistics. —



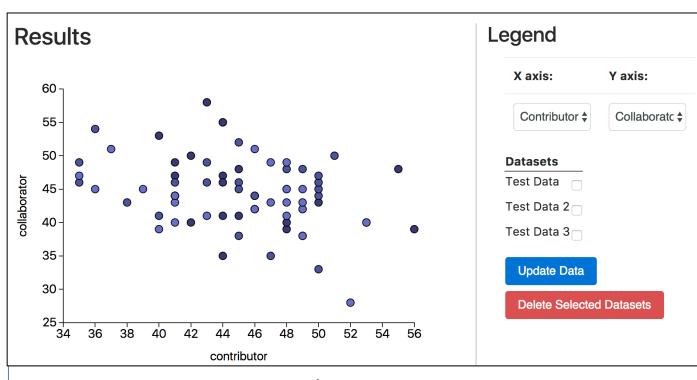


Figure 3.
Scatter plot allows the user to look for correlations between style scores.

Available statistics include:

- Survey questions answered similarly by people of each style.
- Most popular secondary style for people of each style.

#### Prediction

A clustering algorithm classifies hypothetical teams using past data to make predictions about team

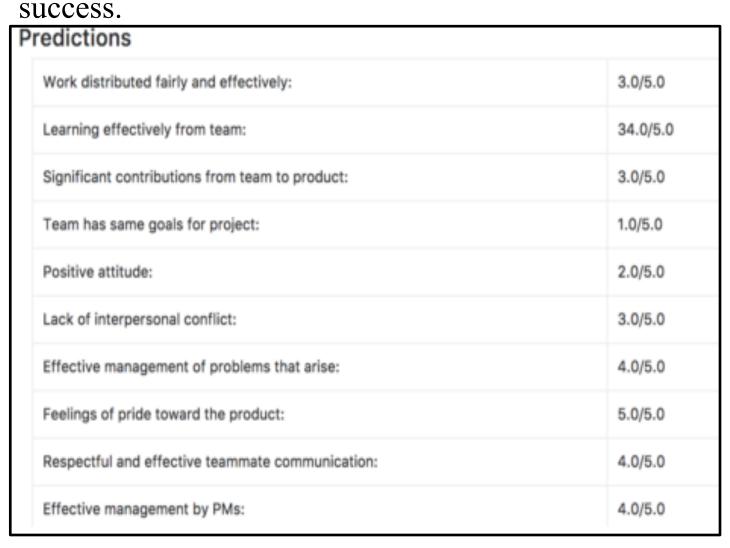


Figure 4.
Predictions in ten success categories.

## What is the PTPS?

The PTPS asks questions about how one functions in a team, and assigns scores in 4 areas, called 'team player styles': Challenger, Contributor, Communicator, and Collaborator.

### Future Work

- Add additional insights
- Use future data to improve predictions algorithm
- Add to types of predictions made
- Add trendline to the scatterplot