

# Outrageous Privilege's Abstract

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## Problem Statement:

For the National Hockey League (NHL), as the season winds down, every fan who follows a team currently out of playoffs has one question: what are the conditions for making playoffs? In other words, what games the team NEEDS to win as well as what games other teams need to lose for the mentioned fan's team to make playoffs.

Our solution is intended to provide a daily interface for users to track the progress of their team into playoffs. A user will be able to input the team they follow and each day the application will provide a list of games scheduled. The list of games schedules will be ranked by importance with importance being defined as how much impact a specific game will have on the team of the user making a playoff berth. In addition, a user will be able to view his team's current projected chances at playoffs and the Stanley Cup (which is the league trophy).

For example, if a user follows the New York Islanders, they can open the application and receive a list of games every day. The list will perhaps contain a matchup like the Washington Capitals vs Philadelphia Flyers. This match-up, in our example, has a huge impact on the Islanders playoff chances because they are in the same division as the Islanders. The app will display a number like "+2.55% if the Washington Capitals win in regulation, -1.00% if the Flyers lose in regulation, etc..." which would represent the odds of making the playoffs increasing. Other matchups will be shown in decreasing order of impact.

For the most part, the main emphasis of coding this application will lie in the user interface. The scraping of the data would be less trivial, but the math algorithms for calculating the percentages already exist in academic work. The main challenge will be formulate an app that is easy to use and is organized in a fashion that doesn't confuse the users. In particular, the involvement of percentages, ratings, and more advanced stats has the potential to make the application only appeal to a certain percentage of hockey fans. Our goal should be to streamline the application in such a manner that it's accessible to almost any hockey fan with little prior knowledge.