CP476 Project

Soccer League Management System

Christof Karlin   161920910
Matthew Nitsopoulos   170673880
David Riolo   170718380

2021-03-22

Introduction

We decided to create a way to store and update information for soccer leagues as there is no widely available, easy to use tool. Our web app enables league admins to log in to schedule games and keep track of stats while also allowing users to view stats, game times and other valuable information of all leagues.

Problem Solving and Algorithms

Be creating this application we will allow admins to create and manage leagues and users to view them. We intend to do this by having a registration / login system that is used to access the admins created leagues. Our application is data driven by the manual input of the admins such as scheduling, scores and teams. This information will be stored on a local database and represented on the screen via the leaderboard and statistics web page. This application will depend on algorithms such as login/registration, creating the league infrastructure, and managing the league schedule and scores.
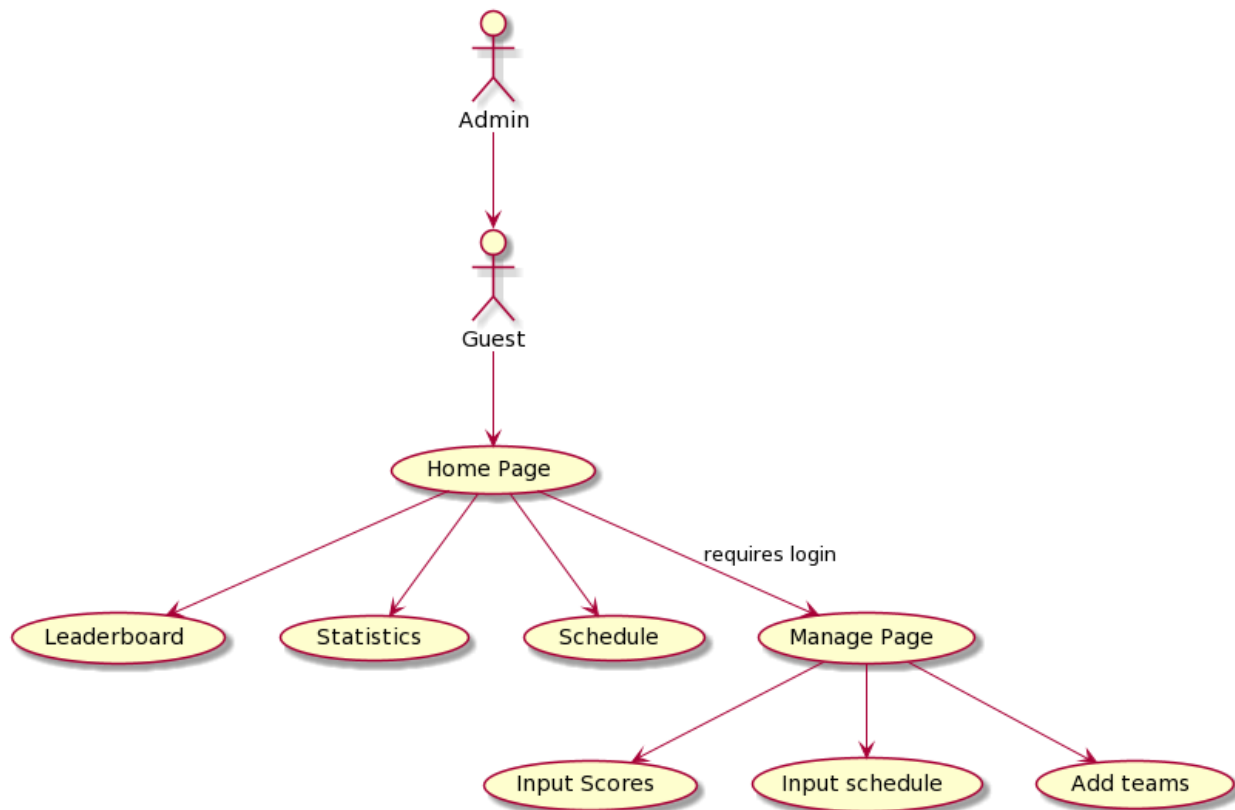
On runtime our application will calculate the current standing of the leaderboard to display in addition to the league and team statistics. We will also provide search and filter functionalities for the user to narrow down the data displayed.

In addition to the league admin, there will also be a guest mode, such that the user can search for a league and view the current standings along with the schedule. They will not have access to modify or manage a league and does not require a login.

System Design

This project will be completed using PHP and PHP CGI for the backend as well as JavaScript for the frontend. To store and manage all of our data we are going to use a local MYSQL database and PHP cookies to retain short term user sessions.

Use-Case Diagram:

Milestones & schedule

List of tasks/milestones/check points of your project with time schedule. For group project, it needs to provide the roles and tasks of each member.

Task ID	Description	Due date	Lead
1	Project research & team up	Day 5 of week 9	Team
2	Project proposal	March 22nd	Team
3	Initial Page Setup/Structure	March 27th	Team
4	Error checking and debugging session	April 4th	Team
5	Project demonstration	Day 5 of week 12	Team
6	Project submission	Day 5 of week 13	Team

References

We took a look at different professional leagues and how they laid out their data. Below you can find all of the websites we referenced to get an idea on how we want to build our web app.

https://www.espn.com/soccer/standings/_/league/eng.1

https://www.theguardian.com/football/tables

https://www.foxsports.com/soccer/premier-league/standings

https://www.skysports.com/football/tables