

## **Project Outline - Bowling app**

### **Overview**

Our bowling app will offer users a simple way of setting up and maintaining a bowling league. The basic features will include creating users that will also be assigned to teams. Once teams are created the app will produce a schedule of matchups for the bowling season. An admin user will be able to enter scores for the bowlers where the app will determine which teams won their matchups and create a standings table. Users will also have the ability to look up statistics about themselves such as their average and previous game scores.

I decided to make this app because my current bowling league uses a web app which is very user unfriendly. The app constantly crashes and is filled with ads making it very difficult to navigate. There are also a lot of bowling leagues that don't utilize any kind of web application and rely on weekly paper printouts. This app would be beneficial for anyone in a bowling league.

### **Features**

1. Randomizer - We will use a randomizer to help create the bowling schedule once all teams have been created.
2. User Sign Up/Login - Users will be able to create a new profile for themselves. During this setup they will have to select a team from a drop down menu. If their team is not available they will have the ability to create the team.
3. Crud Operations - most of these operations will be limited to an admin user who will be able to enter, edit, and delete bowling scores.
4. Database - user information as well as scores will be stored in a database. There will also be team information stored such as the standings table.

### **Technologies**

- Java
- Javascript
- HTML
- CSS
- Hibernate
- MySQL

### **What you' ll have to learn**

- Randomizer Library
- Authentication Library - Spring Security framework

### **Project Tracker**

<https://trello.com/b/FujqkM54/lc101-liftoff>

### **Enable Github Issues**

### **NOTES**

There should be a minimum of 6 teams and a maximum of 16 teams.

A team should have a minimum of 4 bowlers and a maximum of 8 bowlers.

Only 4 bowlers play for each team every matchup.

Teams face off and bowl 3 games against each other. There are a total of 4 points to be won, each game is worth one point and there is an additional point for total pins.

In the below example Team B would win this matchup 3-1. They won games 1 and 3, lost game 2, and won overall pins.

Team A	Score Game 1	Score Game 2	Score Game 3	Team B	Score Game 1	Score Game 2	Score Game 3
Mike	130	150	147	Josh	168	103	190
Sharon	150	143	138	Larry	155	161	139
Bill	145	162	175	Alli	145	141	140
Melissa	110	115	129	Laura	147	138	160
Total	535	570	589		615	543	629
Total all Games			1694				1787