Lineup Builder - Coach Manual

Quick Start Guide

Getting Started

- 1. Open the application in your web browser at https://cactusbass.github.io/lineup-builder/
- 2. **Enter your Team Code** you'll be prompted to enter your unique team code to access your team's data
- 3. Start with the Dashboard your home base for managing your team
- 4. Add your players using the Players section
- 5. **Schedule a game** and generate lineups automatically

Key Features

Team Code System

- Required authentication you must enter your team code to access the application
- Unique team access each coach gets a personalized team code for their team
- Secure data isolation your team data is completely separate from other teams
- **Data persistence** your players, games, and lineups are saved per team code
- Easy switching you can enter different team codes to manage multiple teams
- Logout button located in the top-right corner to easily logout and switch teams

Dashboard

- **Overview** of your team stats (total players, pitchers, catchers)
- Quick access to recent games and lineup generation
- **Team management** shortcuts

Players Management

- Add players with names and special roles (pitcher/catcher)
- Set position restrictions exclude players from specific positions
- Edit or remove players as needed
- Visual badges show pitcher/catcher status and excluded positions

Games & Lineups

- Schedule games with opponent, date, and number of innings
- Select available players for each game
- Generate defensive lineups with advanced rotation algorithms
- Create batting orders with drag-and-drop functionality
- View comprehensive lineup statistics and playing time balance
- Print lineup cards for easy reference during games

Smart Lineup Generation

The system automatically:

- Rotates pitchers (max 2 innings per pitcher, prefers 6 different pitchers)
- Manages catchers (max 2 innings, no consecutive innings)
- Balances playing time (equal infield/outfield time distribution)
- Respects position exclusions and player availability
- Manages bench time fairly when you have 10+ players
- Uses advanced algorithms with multi-factor scoring for fair selection

Rules & Constraints Tab

• Transparent algorithm - View all the rules and logic used to generate lineups

- Core principles Understand how positions are filled and players are selected
- Pitching rules See how pitcher rotation and limits are managed
- Catching rules Learn about catcher rotation and rest requirements
- Playing time balance Understand how fair playing time is calculated
- **Bench management** See how bench time is distributed fairly
- Algorithm transparency Full visibility into the decision-making process

Step-by-Step Workflow

1. Access Your Team

- 1. Open the application at https://cactusbass.github.io/lineup-builder/
- 2. Enter your Team Code when prompted
- 3. Access your team's dashboard and data

2. Set Up Your Team

- 1. Go to **Players** page
- 2. Click "Add Player"
- 3. Enter player name
- 4. Check "Pitcher" if they can pitch
- 5. Check "Catcher" if they can catch
- 6. Select any **excluded positions** (positions they cannot play)
- 7. Click "Add Player"

3. Schedule a Game

- 1. Go to **Games** page
- 2. Click "Schedule Game"
- 3. Enter opponent name and date
- 4. Select number of innings (5, 6, or 7)
- 5. Choose which players are available

• 6. Click "Schedule Game"

4. Generate Lineup

- 1. From the Games page, click on your game to open Game Details
- 2. Click "Generate Defensive Lineup" to create position rotations
- 3. Use "Auto-Generate Order" or drag-and-drop to create batting order
- 4. Review the **comprehensive statistics** and playing time balance
- 5. **Print lineup cards** for easy reference during the game

5. Verify Lineup Balance

- 1. **Check the statistics table** Shows innings played by each player at each position
- 2. Review playing time distribution Ensure fair infield/outfield time balance
- 3. Verify pitcher rotation Confirm no one pitches more than 2 innings
- 4. Check catcher rotation Ensure no consecutive catching innings
- 5. **Examine bench time** Verify fair distribution when you have 10+ players

Tips for Best Results

Player Setup

- Mark all pitchers this ensures proper rotation
- Mark all catchers prevents players from being forced to catch
- Use excluded positions for players with physical limitations
- Add all team members for fair playing time distribution

Game Management

- Check player availability before each game
- **Adjust innings** based on league rules (5-7 innings)
- Review generated lineups before printing or sharing

Lineup Review

- Check statistics table to ensure fair playing time
- Verify pitcher rotation no one should pitch too many innings
- Confirm position restrictions are respected
- Review Rules & Constraints tab to understand the algorithm logic
- Use the statistics analyzer to verify balance and fairness

Sample Team Setup

The app starts with an empty roster, so you'll need to add your players. The system is designed to work with:

- 9 players minimum (perfect setup everyone plays all innings)
- 10+ players (includes bench rotation for fair playing time)
- **Designated pitchers and catchers** (marked with P and C badges)
- **Position exclusions** for players with limitations

Getting Help

Common Issues

- Can't access the app? Make sure you have the correct team code
- Want to logout or switch teams? Use the "Logout" button in the top-right corner
- **No lineup generated?** Make sure you have enough players (minimum 9)
- Player not appearing? Check if they're marked as available for the game
- Position conflicts? Review excluded positions in player settings
- Lost your team code? Contact the application administrator for assistance

Feedback

This is a beta version! Please share your feedback on:

- Ease of use Is the interface intuitive?
- Feature requests What would make this more useful?
- Bug reports Any issues you encounter
- Suggestions Ideas for improvement

Technical Notes

- Browser compatibility: Works best in Chrome, Firefox, or Safari
- Data storage: Currently stores data in browser (refreshing page resets data)
- Mobile friendly: Responsive design works on tablets and phones

Happy coaching!