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# Sandlot



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## Motivation

"The McMaster GSA softball league's current software platform is outdated and fragile, struggling to efficiently manage up to 1,000 participants. While paid-for services are available, the league needs a personalized, cost-effective solution."

~ Dr. Jake Nease

For over 30 years, the McMaster Graduate Student Association has brought students together through its annual summer softball league. With over 30 teams and 100 games played each month, the league thrives on competition and community.

However, its outdated platform, maintained by just one person, struggles to keep up. While paid and ad-supported alternatives exist, they come with costs and limitations that many leagues, including the GSA, cannot afford.

Sandlot is a **modern, intuitive, and cost-effective** league management platform designed to **streamline scheduling, reduce frustration, and scale with ease**. Whether for long-standing leagues or new ones just starting out, Sandlot prioritizes **accessibility and affordability**, ensuring the game stays at the heart of the experience.

## Key Features

### Schedule Generation with Custom Timeslots and Fields

The screenshot shows a user interface for generating a softball schedule. It includes sections for 'Timeslots' and 'Fields'. Under 'Timeslots', users can add specific time intervals (e.g., 03:00 p.m. - 04:30 p.m.) and remove them. Under 'Fields', users can add locations (e.g., Appleby Stadium, Nick's Backyard) and specify available timeslots for each. A large grid view displays scheduled games across multiple days (Mon 5/26 to Fri 5/30) and times (3pm to 7pm). Games are color-coded by location: Appleby Stadium (orange), Nick's Backyard (light blue), and Field 3 (light green). A legend at the top right indicates: Game Played (grey), Appleby Stadium (orange), Nick's Backyard (light blue), and Field 3 (light green). A 'Generate New Schedule' button is at the bottom.

**Scheduling:** Schedules are generated based on league and team preferences such as preferred times, days and custom divisions.

### Rescheduling Request Interface

The screenshot shows a user interface for rescheduling softball games. It features a grid of games for the week of June 16-20, 2025. Each game entry includes a 'Click to Select' button. A legend at the top right identifies: Game Played (grey), Full Slot (pink), Free Slot (light blue), Chosen Slot (green), and Game Containing Rescheduled Team (yellow). At the bottom, there are buttons for 'Send Reschedule Request' and 'Back to Schedule'. A note at the bottom left says 'Number of alternative dates selected: 3/5'.

**Rescheduling:** Team captains can reschedule games by sending requests with alternative dates to the opposing captain without needing external communication.

## Custom Waiver Management System

The screenshot shows a 'Waiver Configuration' section with a toggle switch for 'Enable Waiver'. Below it is a 'Waiver Sections' section with a title input field and a note about the player participation waiver. A note at the bottom states: 'According to the Electronic Commerce Act, 200, S.O. 2000 , c. 17 ("the Act")'. Another note at the bottom right discusses electronic signatures under the act.

The screenshot shows a 'My Custom Waiver' section. It includes fields for 'Your initials' (text input), 'Digital Signature (Full Name)' (text input), and a note: 'By typing your name, you acknowledge that it will be treated as your digital signature per the Electronic Commerce Act, 2000, S.O. 2000, c. 17.' There is also a note: 'This is my custom field, sign here!'.

## Technology

### Database



### Backend



### Frontend

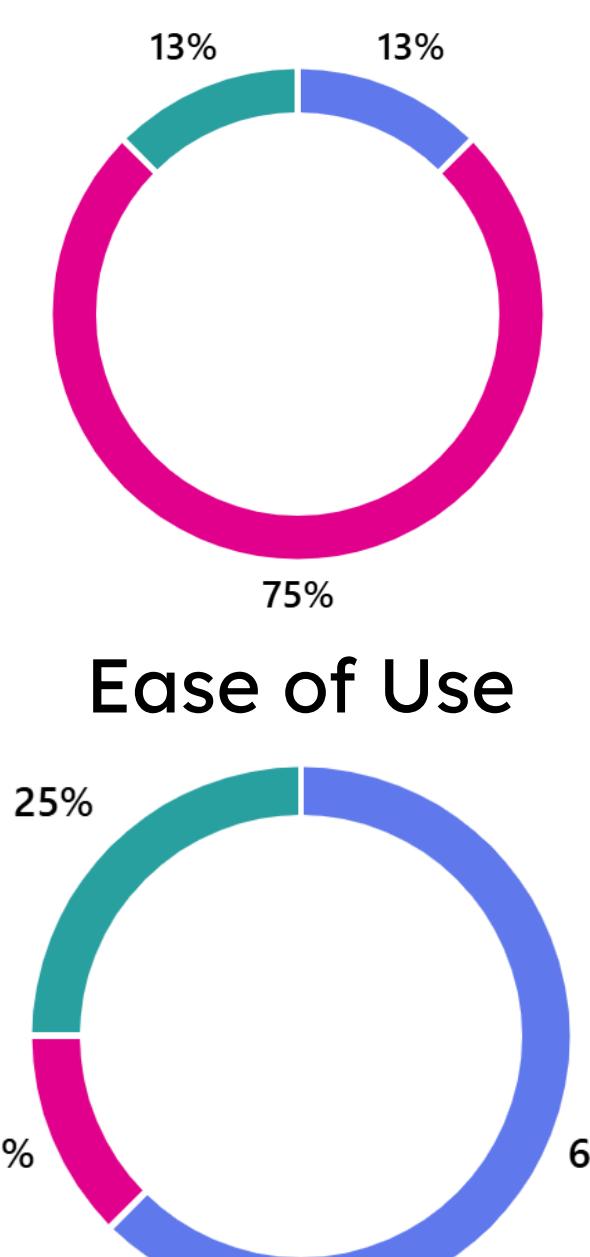


We intentionally used common, well documented software, frameworks and languages to ensure that as many people as possible would have an easy time using and maintaining our system.

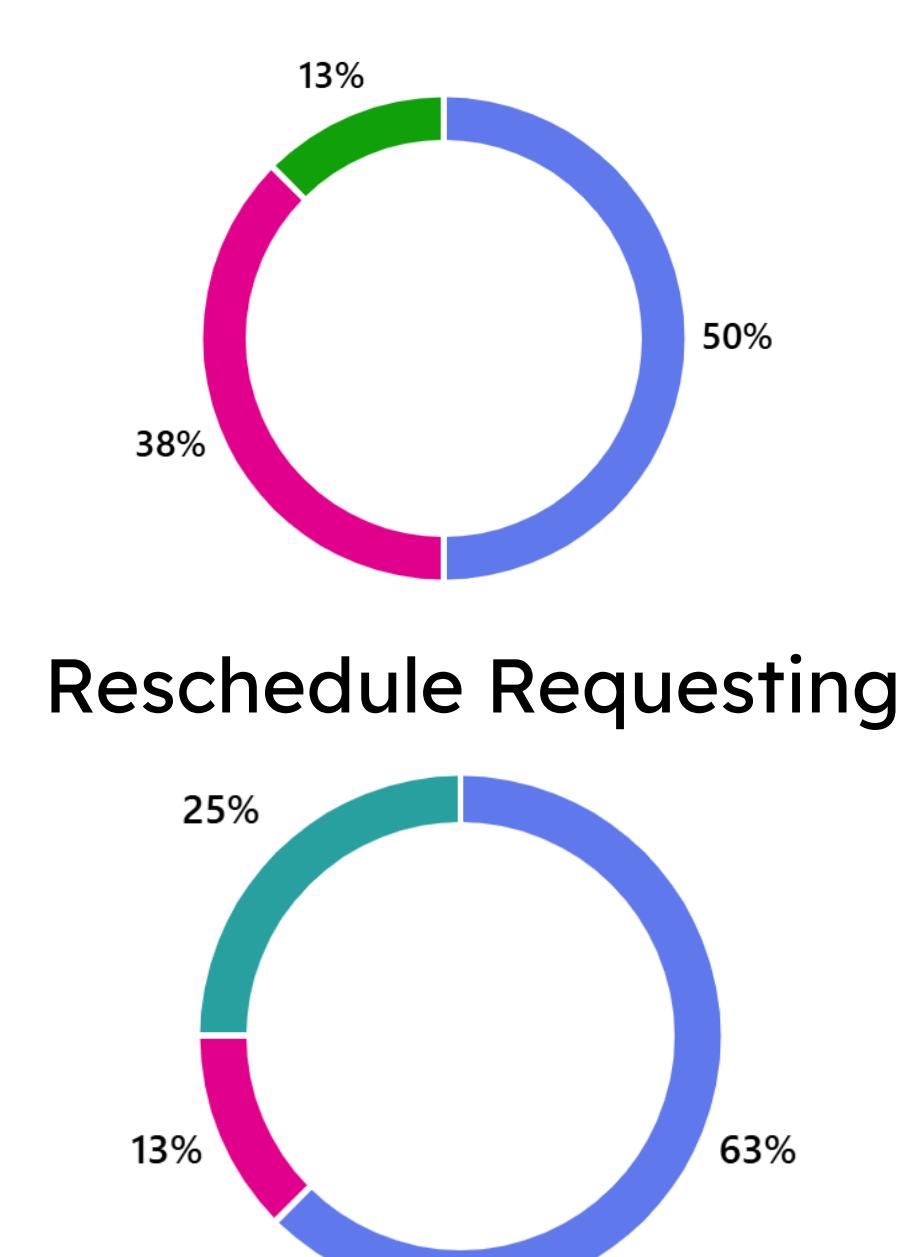
Our queries are database agnostic meaning our system can be used alongside any database software with minimal friction.

## Usability Testing

### System Performance



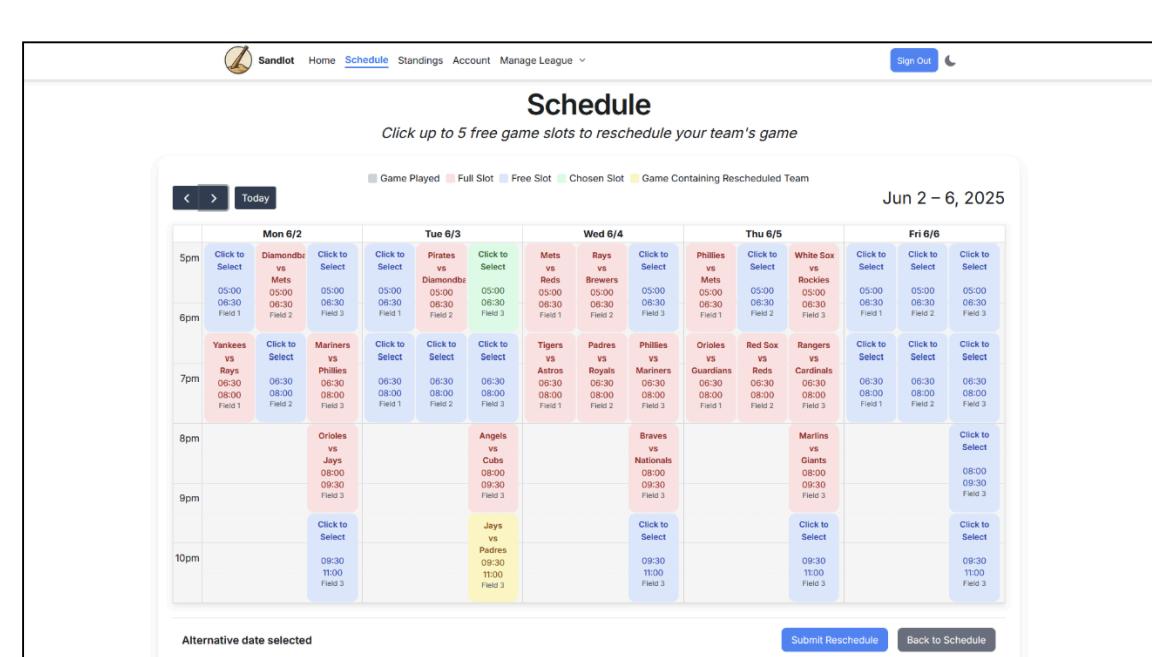
### Scheduling Feedback



### Tests Performed

- Surveys
- Walkthroughs

### Feedback Addressed



**Additions:** Color coding and legend suggested by users.

**Acknowledgement:** Our team would like to formally acknowledge Dr. Jake Nease for the continuous guidance and support in this Capstone project.

**Waiver Configuration:** Enabling waivers allows administrators to manage sections for participants to initial/sign.  
**Viewing Waivers:** Administrators can view participants' signed waivers ensuring legal compliance.