



BAMZON
Sprint 1 Review

CSC 308
Fall 2018

Daniel Heyde | Brandon Ryan | Kevin Krein | Kellie Banzon | Kyle Vu



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User Requirements

- Members will be able to join teams via an invite sent by an Admin.
- Members will be notified of a change in the schedule via push notification.
- Members will be able to view a team roster, filterable team events calendar, team practice schedule, and personal attendance.
- Members can RSVP to events listed on their team's events calendar.
- Members and admins can view team records.
- Members and admins can view other members' statistics and biographies.
- Members can update their own biographies.
- Admins can update team records.
- Admins can update members' statistics and biographies.
- Admins can create teams and invite members.
- Admins will be able to send out push notifications to their team(s).
- Admins can add events to their team's events calendar.
- Admins can adjust their team's practice schedule.
- Admins can view and update attendance.
- Admins can view members' RSVPs (accept/decline) on team events.
- Admins can remove members.
- Admins can make other members admins.

Functional & Non-Functional Requirements

- Functional
 - Admins will be able to create and edit descriptions, times, and locations.
 - Admins will be able to invite members by link or email.
 - Admins will be able to invite other members to be admins.
 - Admins will be able to manage rosters by adding or removing members.
 - Admins will be able to view and take attendance for all members.
 - Admins will be able to view everyone's RSVPs for all events.
 - Members will receive an individual push notification for each update to the calendar/schedule. The push notification will name which event has been updated, and clicking on it will launch the screen to that calendar/schedule item.
 - Members will have access to their attendance for the team they are registered for.
 - Members will have access to view the team roster.
 - Members will have access to view the team's practice schedule and events.
 - Members will be able to register/RSVP for events through the calendar and a linked registration page.
- Non-Functional



- Member shall obtain an invite from an admin to join the team.
- The calendar will update and display new information within 1 minute of changes.
- Members will receive push notifications about calendar and schedule updates within 1 minute of the change.
- Members will be able to register/RSVP for events before the registration deadline.

User Stories & Acceptance Criteria

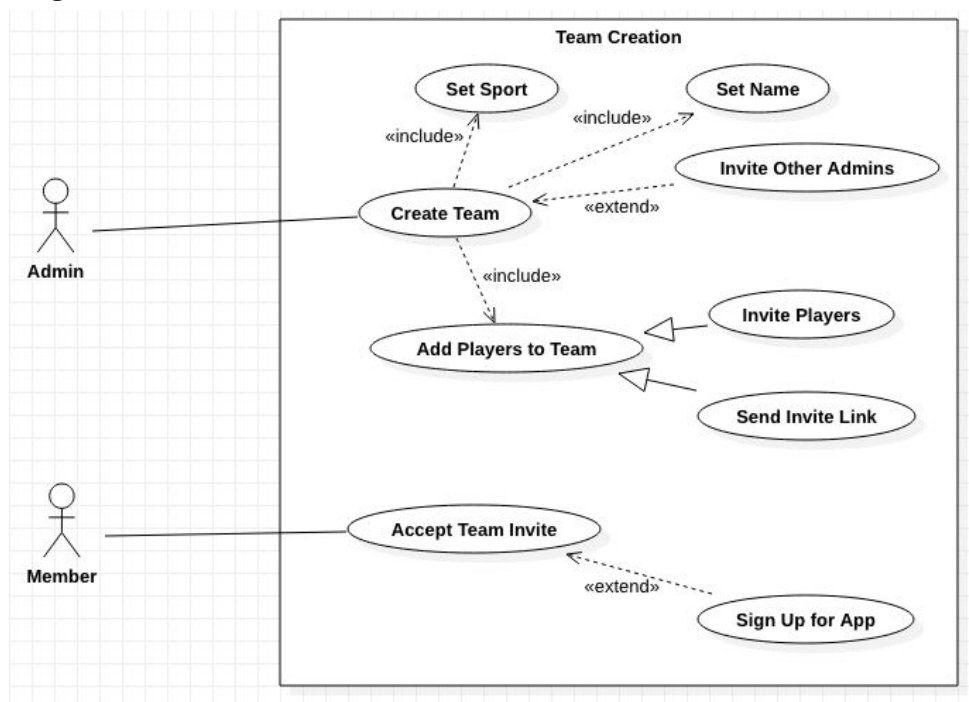
- 1) As an admin, I want to be able to create teams so that I can add members later
 - a) I can start a team by naming it
 - b) I can specify a sport or activity for my team
 - c) I can invite other users to be admins
- 2) As an admin, I want to be able to manage rosters in order to keep track of everyone
 - a) I can view the members on my team
 - b) I can invite members to join an existing team via email invitation or expiring link
 - c) I can remove members from the team
- 3) As an admin, I want to be able to push notifications to team members so that team members stay up to date with new changes
 - a) I can send a notification to my team members
 - b) A clear and concise notification is displayed for team members
 - c) Notifications can be clicked to view the event in question
- 4) As an admin, I want to be able to schedule regular practices for my members to see so that they can stay updated about practice times and locations
 - a) I can create a recurring practice or meeting that my team can see
 - b) I can set a time and location for recurring practices or meetings
 - c) I can modify times and locations for recurring practices or meetings
- 5) As an admin, I want to be able to schedule events outside of regular practices so that my members RSVP and stay up to date with changes
 - a) I can create a new event with a description, time, and date
 - b) I can change the description, time, and date of existing events
 - c) I can see which members have RSVP'd to events
- 6) As an admin, I want to be able to change stats and records for my team so that my members can keep track of their growth
 - a) I can add and update statistics and records for a member
 - b) I can add and update statistics and records for my entire team
- 7) As a member, I want to be able to see my team's roster
 - a) I can see a list of who is currently on my team
 - b) I can see what position each member on my team is playing



- 8) As a member, I want to be able to view and update my schedule so that I can stay up to date with my team
 - a) I can see the schedule in a month, week, or day view
 - b) I can RSVP to special events
 - c) I can change my RSVP later if I choose to
 - d) Team admins are notified of my RSVP
- 9) As a member, I want to be able to check myself into events and practices so that my admins can keep track of attendance
 - a) I can select a current event or practice and mark myself as present or not present
 - b) I can select a previous event or practice and mark myself as present or not present

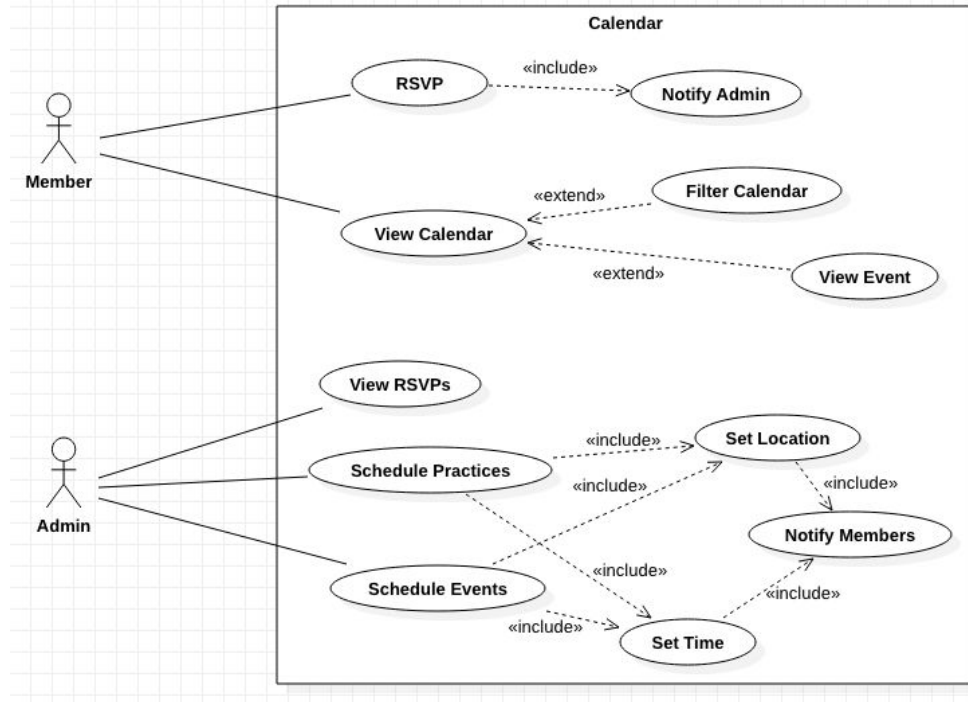
Use Case Diagrams

Use Case Diagram 1: Create a New Team





Use Case Diagram 2: Calendar



Risk-Driven Specification

1. Push notification malfunction
 - a. Risk Identification
 - i. Event notification is not sent to member.
 - b. Risk Analysis and Classification
 - i. Depending on the event, this could be a high risk scenario.
 - c. Risk Decomposition
 - i. Risk: Notification not received
 - ii. Causes: Many possible causes. Possibly not connected to internet, or a code bug.
 - d. Risk Reduction and Assessment
 - i. If a user does not receive a notification then they may miss important events like form due dates or a race/game time change.
 - ii. Thoroughly test notification pushing in different scenarios
 - iii. Add functionality for offline notifications for events that are RSVP'd.
2. Non-admin with ability to add people
 - a. Risk Identification
 - i. Someone without admin permissions is able to add people to the team roster.
 - b. Risk Analysis and Classification
 - i. If the person added is malicious then it is high risk.



- c. Risk Decomposition
 - i. Risk: Malicious entity could gain access to members' profile information or other sensitive information about events in the team
 - ii. Causes: Failed permission check on who can add members to the team, or an admin account may have been hacked
- d. Risk Reduction and Assessment
 - i. Check permissions when adding users, and securely store user passwords, and ensure admins protect their passwords.

Security & Safety Requirements

Security

- Only Admins shall add/remove people to/from the group
- Only Admins shall modify calendar events
- Only Admins shall have the ability to push out notifications
- Only Members and Admins can view roster and contact info for the team
- Passwords shall be encrypted

Safety

- Location of an event is a safe place
- If there is alcohol at an event, verify user is 21
- Users shall have the ability to report other users for harassment, bullying, or other inappropriate behavior
- Admins shall have the ability to remove users from the team if they are behaving inappropriately

Glossary

- Admin: User with moderator rights to the team. This could be a member of the team's board of directors (President, Vice President, Treasurer, Advisor, etc.) or a team captain.
- Member: User that does not have any moderator rights.
- Event: An event is a scheduled activity that is NOT a normal practice (e.g. race, game, party, trip, due date for registration forms).
- Practice: A normal, recurring workout session, NOT a special event
- Events Calendar: A calendar that lists all events that the team hosts/participates in (e.g. games, tournaments, socials, etc.). The events calendar does not include regular practices.
- Practice Schedule: A schedule that displays the current practice times and locations. The practice schedule does not include special events.
- Roster: A list of team members, their contact information, and their positions on the team.