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System Analysis and Design

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**Project Requirement**

**Non- Functional Requirement**

1. Store and retrieve game, schedule, teams, participants and score whenever needed.
2. Ability to run in any browsers and mobile devices.
3. IM Rep and board member can make changes to schedules, games, events, teams and participations.
4. Stakeholders can only view team, game schedule and scorecard without making any changes.
5. The system must be available 24 hours a day.

**Functional Requirements**

1. Create and schedule Event
   1. Add and modify events/games.
   2. Calendar updated to show the date and time of the event.
2. Add students along with their house specifications.

2.1) System must read an excel file from which it can extract student list and their respective houses and store it.

2.2) Manually entered student name and housename stored in the system.

1. Create and store information on teams and games based on the houses and students.

3.1) Merge 1 or 2 houses together to make a team.

3.2) Create games according to the team and update its calendar to show the date and time of the game.

3.3) Store the score of the game.

3.4) View teams, games and scores without any complications.

3.5) IM board and rep members must be able to modify teams, schedules, games and scores.

3.6) The system must track attendance of the participants of each team members at each games or events.

3.7) The system must be able to record wins and losses along with calculating win percentage for each team.

3.8) Record and store staff’s name and job who worked the game as referee or scorekeeper.

3.9) Once the game is finished, the system must mark it as completed, display the score and attendance of the game.

1. Provide a way for IM board members and rep to sign up so that they can gain control to features not available to other students.

4.1) Admin of the system must be able to view these accounts and make changes if necessary.

1. Sort the team members and names in ascending order.