AFFINITY DIAGRAM
UOFSC GYM ATTENDANCE TRACKING SYSTEM

User Features	System Functionality	Data and analytics	Future Improvement	Challenges and Solutions	Technical Requirement
Ideas	**Ideas**	**Ideas**	**Ideas**	**Ideas**	**Ideas**
1. View real-time gym capacity 2. Track personal attendance 3. Display peak/off-peak time suggestions 4. Allow students to mobile check in with app 5. Crowd level notifications	1. Database for check-in data 2. Staff dashboard for usage 3. Student/staff ID card system integration 4. Auto-analysis for peak hours 5. Generate reports	1. Attendance patterns by time/day 2. Growth tracking over time 3. Optimize staff schedules 4. Predict future crowd levels	1. Equipment tracking 2. Personalized analytics 3. AI crowd prediction 4. Fitness program integration	1. Privacy concerns (students may not like their time at the gym tracked); data can be anonymous 2. Slow check-ins; students can just manually check in 3. Funding issues; propose a tech fee 4. Wi-fi failure; offline mode	1. Secure login and authentication 2. Mobile and web design 3. Reliable server 4. UofSC database integration