**Goals and Specifications**

Group 7 (Matchmakers)

1. Ability to match a sizeable number of ranked groups to individuals (two-way ranking) in less time than it would take for a person to do it manually
   1. Number of groups and individuals
      1. Minimum: 3 people per group handling a small number of groups
      2. Expected: 10 people per group handling a decent number of groups (university equivalent)
   2. Time to match
      1. Expected: < 1 minute after submission
   3. Deviation of rankings from group to group
      1. Minimum: within 25%
      2. Expected: within 10%
      3. Reach: within 5%
2. Utilize scheduling constraints on either groups and/or individuals when time presents a conflict for either set
   1. Complexity of constraint
      1. Minimum: one sided time constraint
      2. Expected: two sided time constraint
3. Address a number of sub preferences that shape the matching process (diversity, age group, etc.) without decreasing fairness of ranking by an unacceptable amount
   1. Sub preferences
      1. Minimum: 1 sub preference
      2. Expected: 2 sub preferences
      3. Reach: 3+ sub preferences
   2. Decrease to fairness of ranking between sets of people
      1. Minimum: <20% decrease
      2. Expected: <10% decrease
      3. Reach: <5% decrease
4. Have an interface that provides ease of use to users and proves to be more efficient and preferred in user testing than the traditional method
   1. Ease of use/understanding
   2. Preferability over traditional manual method
   3. Provides necessary functionality without being too complicated and cumbersome
      1. User testing rates all of these conditions to conclude that our solution is a viable and more efficient alternative to the manual method.