# Developers as Decision Makers ICS 3U1 Culminating Assignment

#### Assessing the Needs of Our Users

Team Member 1: Ryan Alumkal

Team Member 2: Ryan Lin

**Team Member 3: Anthony Toyco** 

Results of Our Interview and Discussion: Factors that matter

Our team interviewed **13** students and teachers about their personal factors.

#### **Detailed results:**

https://docs.google.com/spreadsheets/d/1IEn3KantYh5Bm5qaWqKzV2EGTfezKIXZ\_Hu3WI5Cuk/edit#gid=0

- Factors to consider:
  - Courses take (1)
    - Students who have taken less courses get preferential treatment
  - Financial needs (2)
    - Students with financial difficulties get preference
  - Proximity to school (2)
    - Students farther from the school get preference
  - Domestic or international (3)
    - Domestic students get preference
  - Personality
    - **•** 7
  - Previous opportunities (if they have lived in residency before)
    - If students have lived in residence before, they get less preference compared to those who haven't
  - Housing situation/need (2)
    - Students without current housing get preference
  - Affordability (4)
    - Students who can afford housing get preferential treatment
  - OSAP severity/financial aid (3)
    - Students on OSAP get preference
  - Grades (3)
    - Students with better grades get preferential treatment

- Willingness to share housing with others (3)
  - Collaboration
  - Cohabitate
  - Students willing to live with others get preferential treatment
- Academic status (3)
  - Probation
  - Students with probation or academic suspension will be preferred less
- Commitment to student life (4)
  - Clubs, sports, etc.
  - People in clubs, sports, etc. will get preference
- Disability (3)
  - Those with disabilities will get to choose housing accommodates
- Athlete on campus (4)
  - Athletes get preference

# **Our Algorithm in English:**

#### Factors that our program consists of:

- 1. What year are you currently in?
  - a. 1st year (+2 points)
  - b. 2nd year (+1 point)
  - c. 3rd year (0 points)
  - d. 4th year (-1 points)
  - e. For 2nd year +:
    - i. Were you previously in residence?
      - a) Yes (-1)
      - b) No (+1)
    - ii. Have you been denied entry into residence before?
      - a) Yes (0 point)
        - i) Please specify the reason on why you have been denied residence:
          - 1) Did not quality (+1 points)
          - 2) Academic Probation (-1 point)
          - 3) Other (-1 point)
      - b) No (+1 point)

#### 2. Are you a full-time or part-time student?

- a) Full-Time (+1)
- b) Part-Time (-1)

c)	For all options: How many course	es are you currently	taking in the	upcoming
	term?			

- i) 2.0 + (+1 point)
- ii) 1.5 ( + 1point)
- iii) 1.0 (0 point)
- iv) 0.5 (-1 point)

#### 3. What is your current age?

- a) 18-22 (+1 points)
- b) 23+ (-1 point)

#### 4. Have you or will you possibly be on academic/disciplinary probation?

- a) Yes, I AM/HAVE BEEN on academic probation (-1 point)
- b) Yes, I WILL POSSIBLY face an academic suspension (-2 points)
- c) Yes, I HAVE faced disciplinary probation (-3 points)
- d) No, I have both not been on academic or disciplinary probation and have will not face an academic suspension the following year (+1 point)

#### 5. Do you plan to live with your parents?

- a) Yes (-1 point)
- b) No (+1 point)
  - i) Do you live within a 25km radius of the school?
    - 1) Yes (-1 point)
    - 2) No (+1 point)

## 6. Are you an international student?

- a) Yes (+1 point)
- b) No (0 points)

# 7. Do you have a physical disability? (Cerebral Palsy, Hypertonia, Athetosis, Deafness, Amputations, etc.)

- a) Yes (+1 point)
  - i) Is the physical disability persistent or prolonged?
    - 1) Yes (+1 point)
    - 2) No ( 0 point)
  - ii) Are any special accommodations needed for your physical disability?
    - 1) Yes (+1 point)
    - 2) No (0 points)
- b) No (-1 point)

8. Do you have any mental disability?
a) Yes (+1 point)
i) Is the mental disability persistent or prolonged?
1) Yes (+1 point)
2) No ( 0 point)
ii) Are any special accommodations needed for your mental disability?
1) Yes (+1 point)
2) No (0 points)
b) No (0 points)
9. Are you part of an athletics team on campus?
a) Yes (1 point)
b) No (-1 point)
-, - ( F,
10. Are you on OSAP?
a) Yes (+1)
i) How much is your OSAP?
1) \$1-\$3,999 ( -1 point)
2) \$4,000 - \$6,999 ( +1 point)
3) \$7,000+ (+2 point)
b) No (-1)
11. Do you currently have a job on campus?
a) Yes (+1)
b) No (-1)
i) Would you be interested in pursuing a job opportunity on campus?
a) Yes (+1 point)
b) No (0 point)
12. Any specific preferences for residency?
a) Private (-1 point)
b) Shared (+1 point)
c) None (0 point)
Total housing points shared after student has taken the test

## **Test Cases**

- A 25 year old full-time 4th year who has a physical disability (prolonged and needs accomidations) and has been on residency before. Is taking 2.0+ courses in the upcoming term. Has not been on any academic/disciplinary probations. No OSAP. No specific preferences for residency. 3 points
- A 22 year old full-time 1st year who is student teaching in campus and an international student with OSAP ranging in the \$5,000. Part of an athletic team.
   1.5 course load for the term. No probations. Does not live with parents or in a 25km radius of school. No disability. 12 points
- A 20 year old 2nd year part-time student on disciplinary probation who has been denied residency because of the probation with preferred private residency should output 1 points
- A 25 year old 3rd year full-time student living with their parents who has a
  persistent mental disability with accommodations needed and a OSAP ranging in
  the \$7,000 range should output 3 points
- A 18 year old 1 year full-time student who is a basketball player for the club and living in a 26 km radius of the school without OSAP should output 4 points