

Team Spooky Ghosts: Jun Hong Wang, James Yu, Thomas Zhang

Softdev pd 7

ourTalos

2022-10-21

Time spent: 0.7 hrs

#### Data:

- Students (ranked preferences, grades, classes taken, schedule)
- Teachers (licenses, periods taught, periods free)
- Room availability by period, sorted by floor (each floor should mostly have same subject)
  - Dictionary, with period as key, dictionary of all rooms as value, with each room being a key, availability as value
- Something to organize all courses (split by subject)
  - Required courses must be filled (copy of Talos chart)
- Courses themselves with information (so prerequisites, grades required, type of course or subject, electives, fall/spring semester courses)
- Maybe store students, teachers, and courses as objects that store variables like grades, classes taken, preferences, etc

#### Interface:

- Login page
- Dashboard (Class selection page)
- schedule/results of selection

#### Design:

- Minimum viable product:
  - Interface completed
  - Course selection (what classes are open to student, rejection if too many applicants but not enough seats)
  - Small sample size (20 students, 4 teachers?)
- Additional goals (if minimum viable product works well and can be applied to larger sample size):
  - Schedule based on course selection and teacher schedule
    - Free and lunch periods
    - Double periods for certain classes
    - gym/science switching
    - Lab frees (a, b days along with numbers)
  - Room availability to assign each class to a room for a period, making sure each class has a classroom
  - Ap classes, how many each student can take