

CORSICA

CS Waitlist Management System
CS410 Red Team

Team CORSICA



Anthony Baron



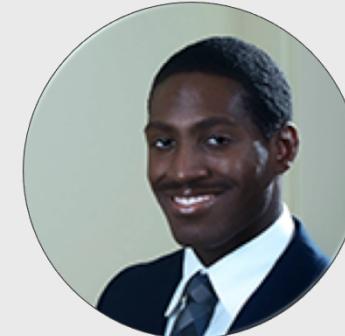
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PROBLEM & HISTORICAL DATA

Patrick DeBerry

History

- Old Dominion University
 - Founded in 1930
 - Undergraduate enrolled:
19,612
- Computer Science students enrolled:
 - Bachelor: 673
 - Masters: 111
 - PhD: 11
- Record Systems:
 - I.S.I.S.
 - Banner (LeoOnline)

I.S.I.S.

- ODU's previous student records system
- Supports students needs
- Maintains student's academic and financial records
- Maintains administrative files
- Allows to enroll students in courses and assess fees

Source: UC San Diego

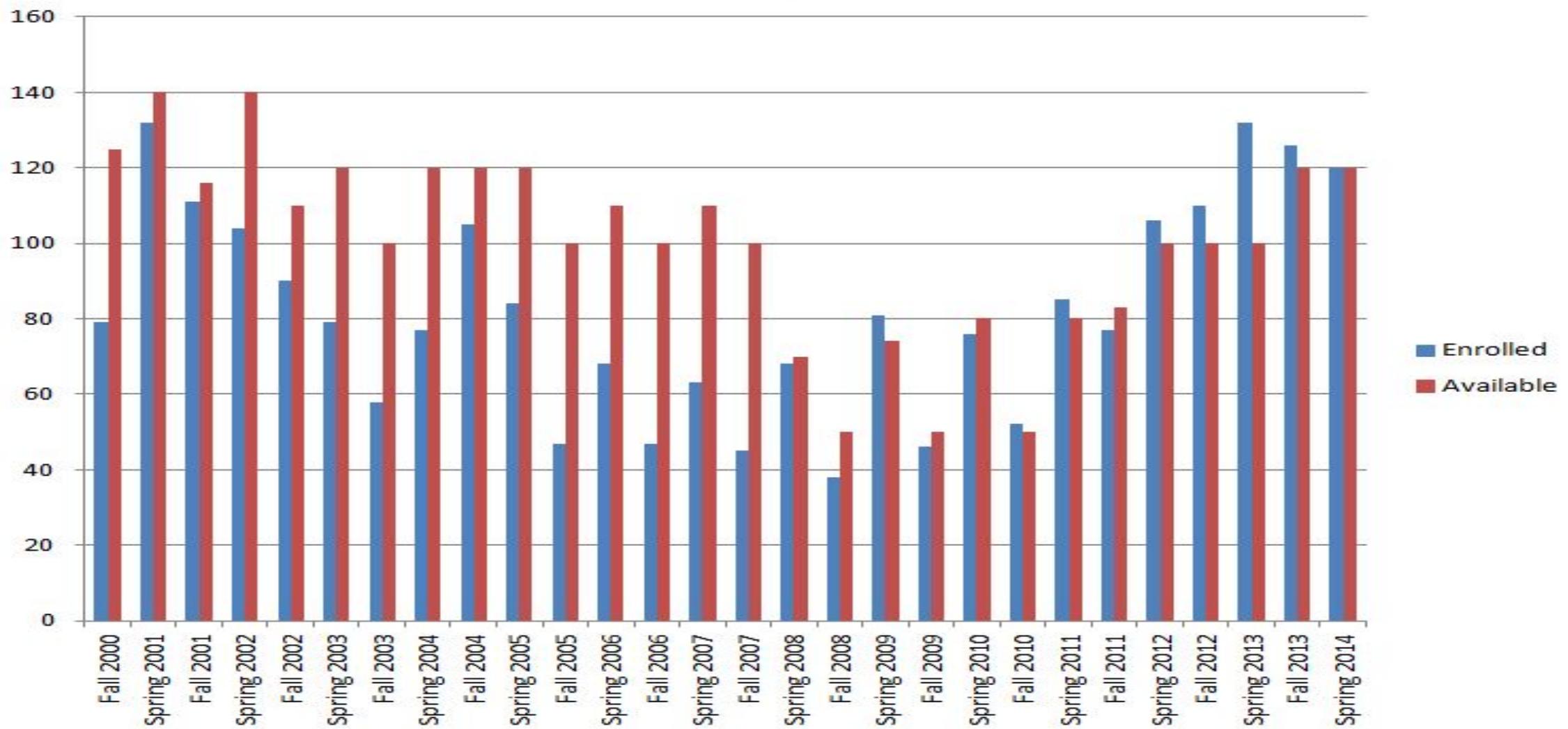
Banner (LeoOnline)



- ODU's centralized academic and administrative records system
- Web-based graphical user interface
- Maintains all the academic and financial data for students
- Allows users to change data with forms (with rights granted)

Source: Old Dominion University Website

CS 250



Data provided from LeoOnline, ODU's student information system



Not enough seats for students
enrolled in some classes

The background image shows rows of grey theater-style seats in an auditorium. The text is overlaid on the middle section of the image.

CASE STUDY

Lookmai Rattana

Current Waitlist

- Available to Computer Science Department
- Developed by Dr. Irwin Levinstein



Simple Process



Student

- Student enlisted on the waitlist
- System checks for open seat
- Student is given 24 hours to response
- System enrolls student into the class

POTENTIAL

- Useful to the rest of the university
- Helps simplify the enrollment process

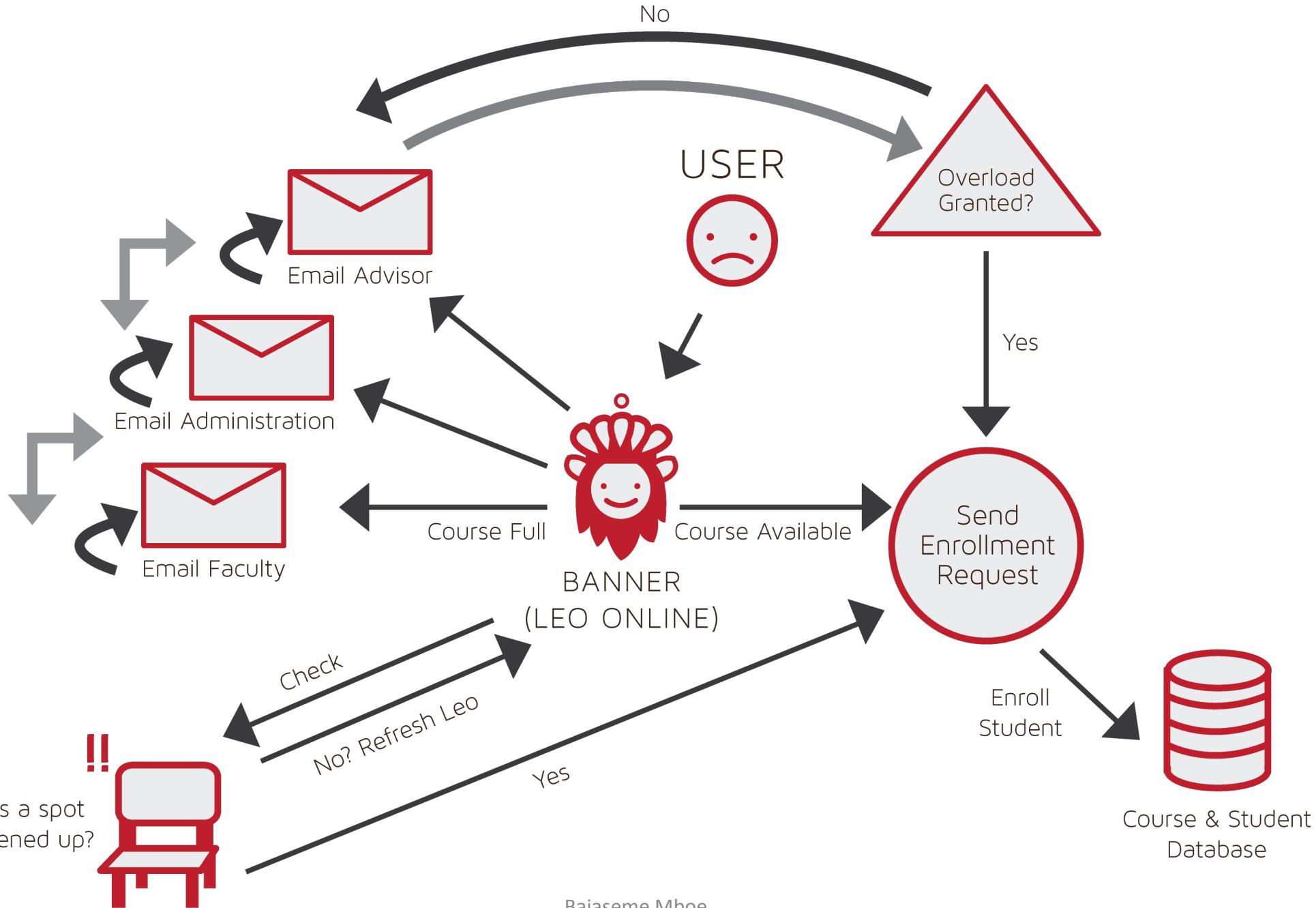
ISSUES

- A student not on the list can enroll before the student can respond
- Visibility of the list

PROBLEM STATEMENT

Bitaseme Mboe

Problem Characteristics



Waitlist History Log

No one ever goes from the waitlist to the course. They just drop off the head of the waitlist, leaving vacancies in the course.

In what follows, entries like this

12/02: #23441 70/ 70 cr:3 <OCNPS> 0930 TR STAFF,
show enrollment/cap (here **70/70**) on the given date about **6:30pm**.

Entries like this

Dec 5 10:30 3/10 (7)

show waiting list length/cap (available), here **3/10 (7)** at the given date and **24** hour time.

entries beginning with -- are comments.

Waitlist History Log

-- we start with a full class and 2 on the WL.

Nov 24 16:30 2/10 (8)

12/02: #23441 69/ 70 cr:3 <OCNPS> 0930 TR STAFF,

-- an opening appears by 12/04 ...

12/04: #23441 69/ 70 cr:3 <OCNPS> 0930 TR STAFF,

-- ... and the WL grows ...

Dec 5 10:30 3/10 (7)

Dec 5 13:30 5/10 (5)

-- ... but the vacancy does not fill.

12/06: #23441 69/ 70 cr:3 <OCNPS> 0930 TR STAFF,

Dec 7 08:30 7/10 (3)

Dec 7 11:30 8/10 (2)

12/08: #23441 69/ 70 cr:3 <OCNPS> 0930 TR STAFF,

Dec 9 08:30 9/10 (1)

Dec 10 18:30 10/10 (0)

-- Meanwhile the WL grows and fills up.

12/10: #23441 69/ 70 cr:3 <OCNPS> 0930 TR STAFF,

Waitlist History Log

```
-- Another vacany appears ...
12/12: #23441 68/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
        Dec 13 17:30    9/10 ( 1)
        Dec 13 18:30    10/10 ( 0)
-- ... and it appears that someone makes use of it, but actually
-- the person at the head of the list does not respond to email
-- (my theory) and another person jumps on the WL.
-- Meanwhile, a third vacancy appears.
-- From other sources: no one new registered from 23441 between 12/07 and 12/14
12/14: #23441 67/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
12/16: #23441 67/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
-- another person who was notified did not respond and was dropped from WL
        Dec 18 16:30    9/10 ( 1)
12/18: #23441 67/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
        Dec 19 08:30    10/10 ( 0)
-- the WL fills again, but no new registrations
12/20: #23441 67/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
-- From other sources: no one new registered from 23441 between 12/14 and 12/21
12/22: #23441 67/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
12/24: #23441 67/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
12/26: #23441 67/ 70      cr:3 <OCNPS> 0930      TR      STAFF,
        Dec 27 11:30    9/10 ( 1)
```

The current class enrollment
system is inadequate

SOLUTION

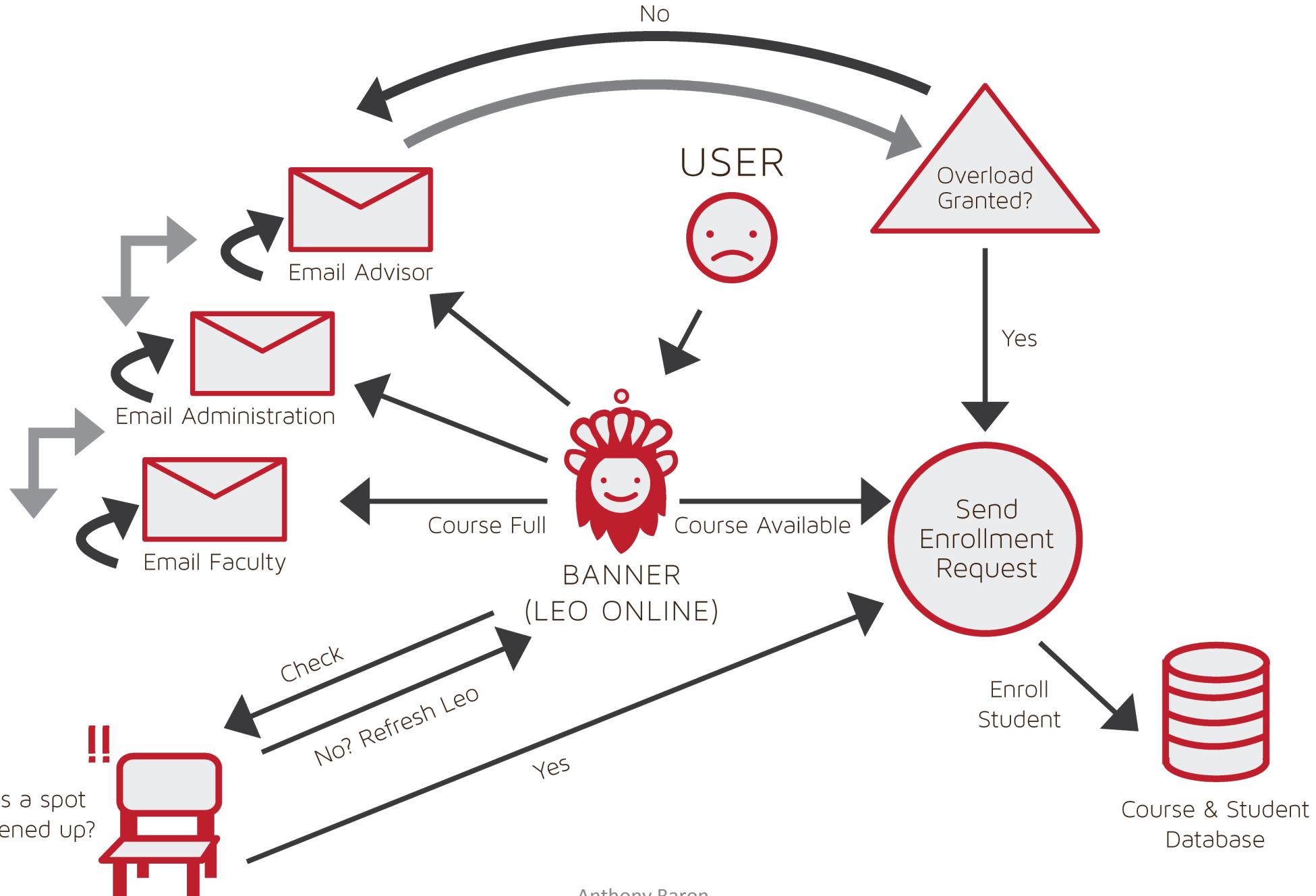
Anthony Baron

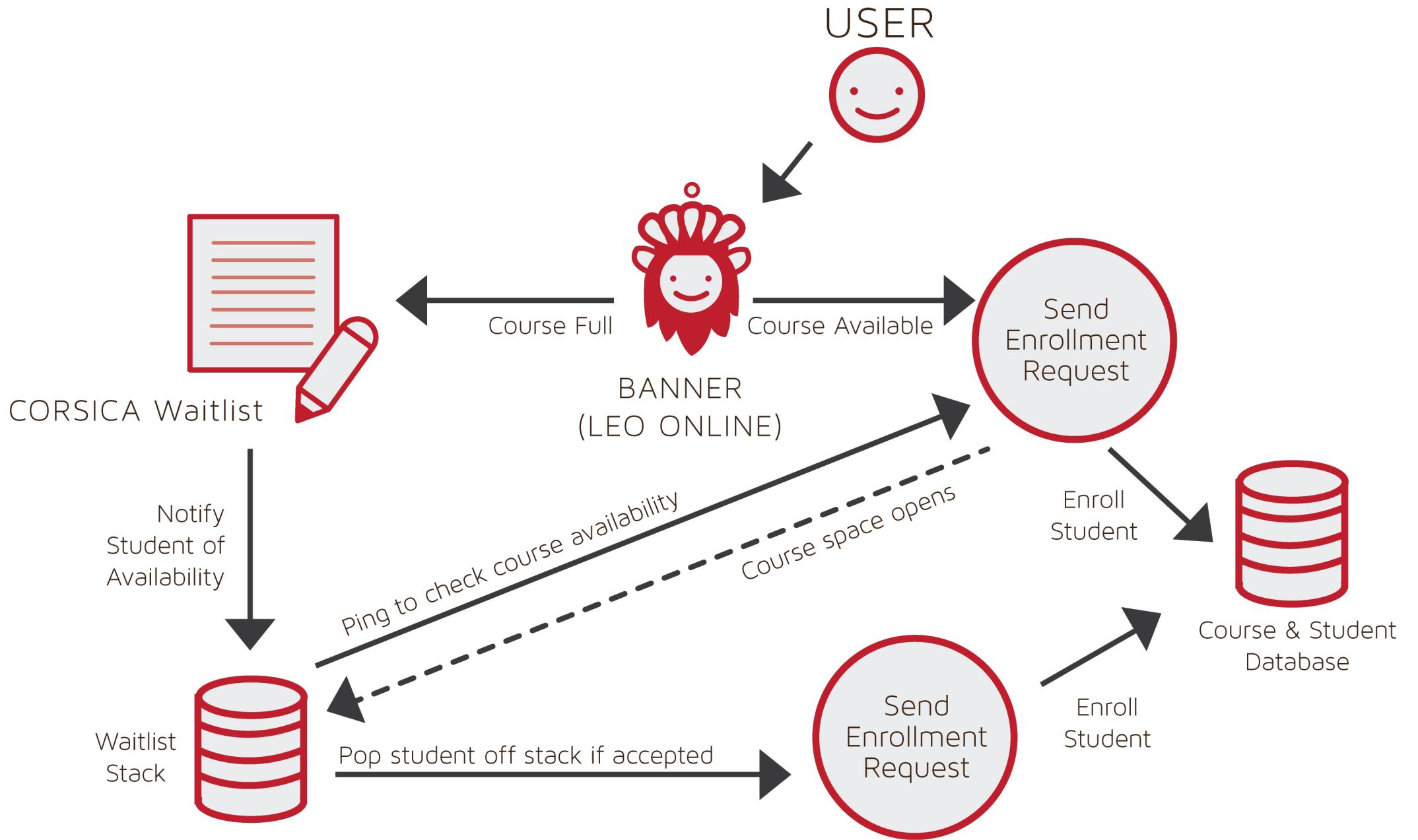
Solution Statement

- CORSICA will cause the enrollment process to become more efficient and streamline by
 - Emplacing course waitlist
 - To handle course fill ups during enrollment process
 - Having a waitlist communication system
 - Let students know a course has open by email, call, or text

Solution Goals and Objectives

- Streamline the course sign up process
- Eliminate “panic factor”
- Relieve Faculty during event of course fill up
- Relieve Administration during event of course fill up





COMPETITION & MAJOR FUNCTIONAL COMPONENTS

Latimer Gerle

Competition Part I

	University of Texas at San Antonio	Santa Barbara City College	Diablo Valley College	University of Oregon	University of Wisc.-Madison	Temple University
How do I join the waitlist?	Through ASAP	Through Pipeline	Through WebAdvisor	Through DuckWeb	Through myUW	Through SSB
Do all classes offer a waitlist?	✗	✗	✗	✗	✗	✗
How many credits can I waitlist?	Unlimited	—	Unlimited	Unlimited	Unlimited	Unlimited
Can I waitlist more than one section?	✗	✗	✗	✗	✓	✗
Can I see what my current position is?	✓	✓	✓	✓	✗	✓
Can I take myself off the waitlist?	✓	✓	✓	✓	✓	✓
How am I notified of a spot opening?	Email	Email	Email	Email	Email	Email
Will I be registered automatically?	✗	✗	✗	✗	✗	✗
How long do I have to register?	24 hours	72 hours	72 hours	48 hours	48 hours	72 hours
What happens if I don't register in time?	Dropped from waitlist	Dropped from waitlist	Dropped from waitlist	Dropped from waitlist	Dropped from waitlist	Dropped from waitlist
Will more than one student be offered a spot at one time?	✗	✗	✗	✗	✗	✗
Can I be prevented from joining a waitlist?	✓ 2/25/14	✓	Latimer Gehr ✓	✓	✓	✓ 27 ✓

Competition Part II

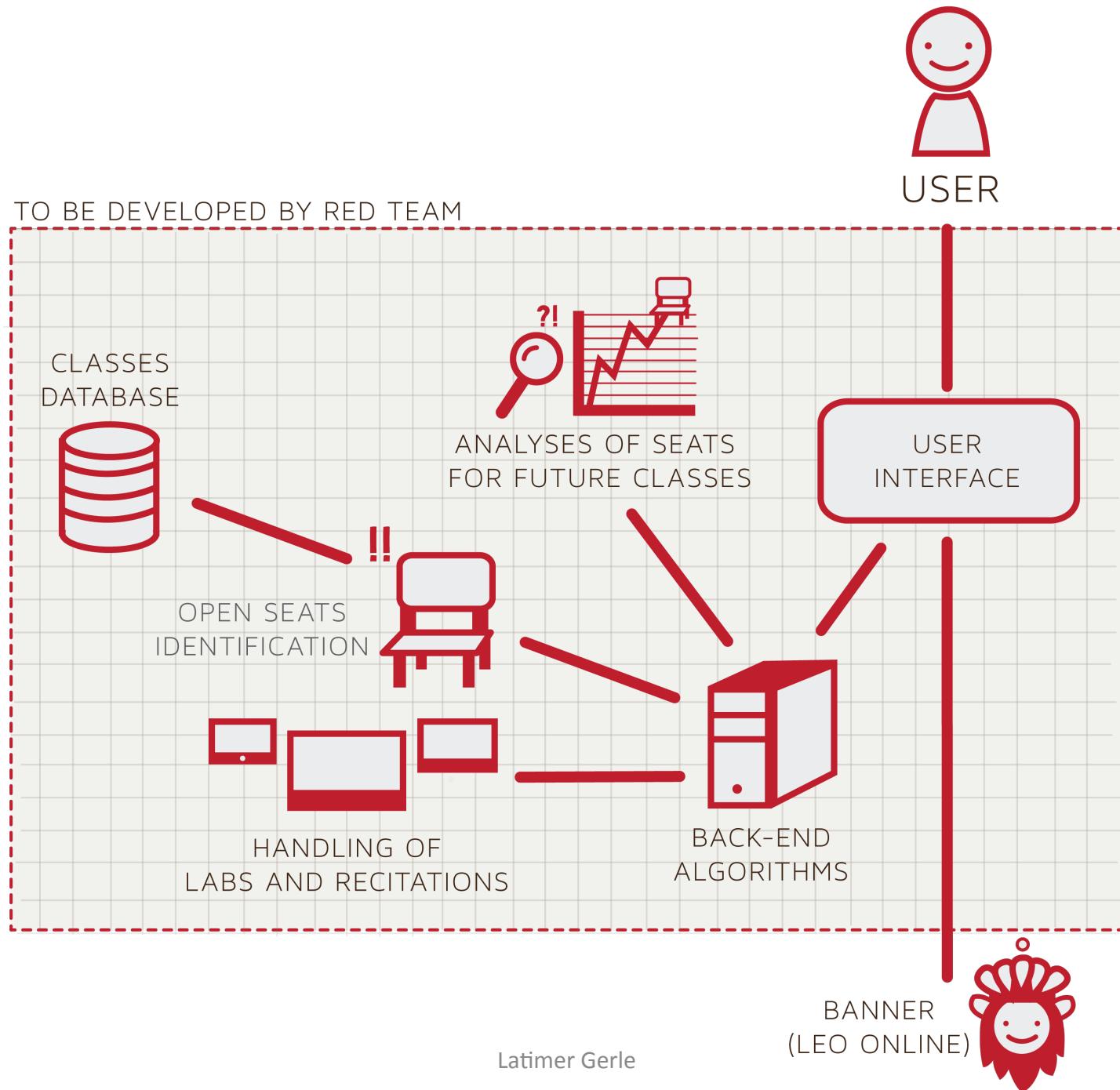
	University of Calif., Santa Cruz	Portland State University	Louisiana State University	San Bernardino Valley College	Brigham Young University	Cleveland State University
How do I join the waitlist?	Through MyUCSC	Through Banweb	Through PAWS	Through WebAdvisor	Through MyMAP	Through CampusNet
Do all classes offer a waitlist?	✗	✗	✓	✗	✗	✗
How many credits can I waitlist?	19 credits	—	Unlimited	—	—	8 credits
Can I waitlist more than one section?	✗	✗	✗	✗	✗	—
Can I see what my current position is?	✓	✓	✓	✓	✓	✓
Can I take myself off the waitlist?	✓	✓	✓	✓	✓	✓
How am I notified of a spot opening?	—	Email	—	Email	—	Email
Will I be registered automatically?	✓	✗	✓	✗	✓	✗
How long do I have to register after?	—	24 hours	—	48 hours	—	24 hours
What happens if I don't register in time?	—	Dropped from waitlist	—	Dropped from waitlist	—	Dropped from waitlist
Will more than one student be offered a spot at one time?	—	✗	—	✗	—	✗
Can I be prevented from joining a waitlist? 2/23/14	✓	✓	Latimer Gervé ✓	✓	✓	✓

Competition Part III

	Purdue University	City College of San Francisco	Coastline Comm. College	Henry Ford Comm. College	University of Pittsburgh	Glendale Comm. College
How do I join the waitlist?	Through myPurdue	Through Web4	Through myCCC	Through WebAdvisor	Through PeopleSoft	Through myGCC
Do all classes offer a waitlist?	✗	✗	✓	✗	✗	✗
How many credits can I waitlist?	—	Unlimited	—	Unlimited	8 credits	16 credits
Can I waitlist more than one section?	✗	✗	✗	✗	✓	✓
Can I see what my current position is?	✓	✓	✓	✓	✓	✓
Can I take myself off the waitlist?	✓	✓	✓	✓	✓	✓
How am I notified of a spot opening?	Email	Email	Email	Email	—	—
Will I be registered automatically?	✗	✗	✗	✗	✓	✓
How long do I have to register after?	16 hours	48 hours	24 hours	24 hours	—	—
What happens if I don't register in time?	Dropped from waitlist	Dropped from waitlist	Dropped from waitlist	Dropped from waitlist	—	—
Will more than one student be offered a spot at one time?	✗	✗	✗	✗	—	—
Can I be prevented from joining a waitlist?	✓	✓	Latimer Gerle ✓	✓	✓	✓

Competition Part IV

	Baylor University	Onondaga Comm. College	University of Hawaii	DePaul University	Comm. College of Denver	Ohio University
How do I join the waitlist?	Through Bearweb	Through WebAccess	Through myUH	Through Campus Connect	Through CCD Connect	Through myOhio
Do all classes offer a waitlist?	✗	✗	✗	✗	✓	✗
How many credits can I waitlist?	Unlimited	—	Unlimited	Unlimited	18 credits	8 credits
Can I waitlist more than one section?	✗	✗	✓	✓	✗	—
Can I see what my current position is?	✓	✓	✓	✓	✓	✓
Can I take myself off the waitlist?	✓	✓	✓	✓	✓	✓
How am I notified of a spot opening?	Email	Email	Email or email and text	—	Email	—
Will I be registered automatically?	✗	✗	✗	✓	✗	✓
How long do I have to register after?	24 hours	48 hours	24 - 48 hours	—	24 hours	—
What happens if I don't register in time?	Dropped from waitlist	Dropped from waitlist	Dropped from waitlist	—	Dropped from waitlist	—
Will more than one student be offered a spot at one time?	✗	✗	✗	—	✗	—
Can I be prevented from joining a waitlist? 2/25/14	✓	✓	Latimer Gerle ✓	✓	✓	30 ✓



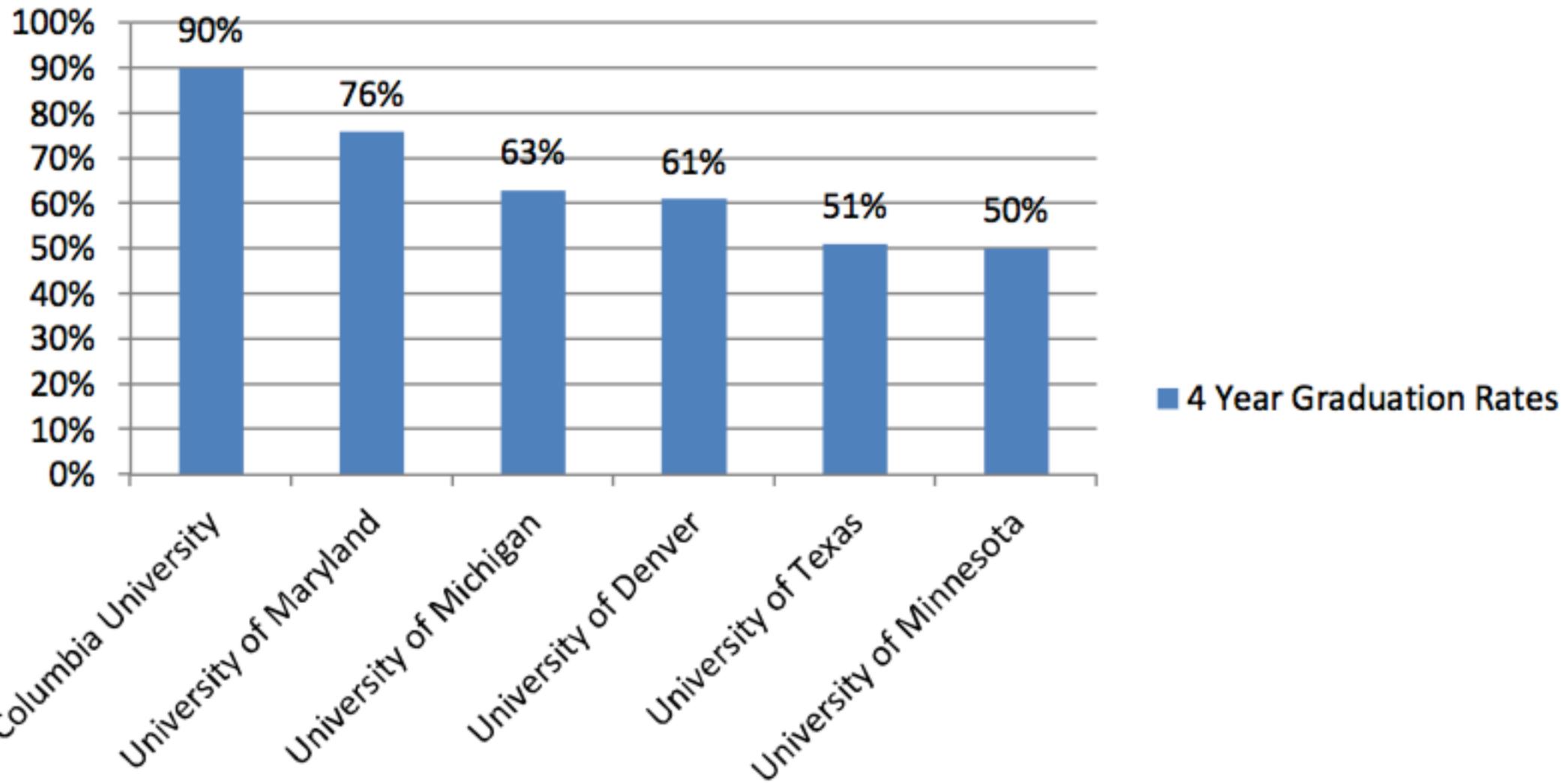
Required Components

- Back-end algorithms
- Open seat identification
- Class database
- Lab/recitation handling
- Future class analyses
- User interface

BENEFIT OF CORSICA

Nicholas LoGioco

Graduation Rates With Waitlist



Benefits of CORSICA

- Old Dominion University
 - 4 Year Graduation Rate: 25% -Increase graduation rates
 - Decrease stress on faculty and students
 - Increase the amount of students enrolling into classes

Problems with Solution



- System failure
- Time issues with classes
- Do we have a max waitlist cap
- Students accidentally signing up for waitlist
Do we allow multiple course waitlist?
- Students not taking themselves off the waitlist

References

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