IT Applications: Student Related Projects

6/7/2021
Agenda

• College Scheduler - Stirling Crow, IT Project Manager
• Student Guide - Anne Kirk, IT Project Manager
• Tuition Calculator - Randy Johnson, Programmer Analyst III
• Overview of COVID-Related Applications - Tuan Bui, Manager, IT Applications
• Lobo Check-In - John Lee, Apps Support Specialist
• COVID Administrative System - Ron Estrada, Programmer Analyst III
College Scheduler

- Project Status: Active
- 3rd Party Product (Civitas)
- A Scheduling/Planning tool that assists students in building their schedule.
- Aimed at improving the student experience (recruitment and retention).
- Two Modes:
  - Planning Only
  - Registration (Requires Modifications)
- Timeline:
College Scheduler - Demo
College Scheduler

• Project Team:
  • Sheila Jurnak, Registrar (Registrar's Office)
  • Tanaya Brown, Operations Manager (Registrar's Office)
  • Amber Trujillo-McClure, Associate Registrar (Registrar's Office)
  • Stirling Crow, IT Project Manager (IT Applications)
  • Nader Khalil, COTS Team Manager (IT Applications)
  • George Rainone, Programmer Analyst (IT Applications)
  • Gil Garduno, Business Analyst (IT Applications)
  • James Gillen, Programmer Analyst (IT Applications)
  • Sonya Torres, DBA (IT Platforms)
  • John Lopez, DBA (IT Platforms)
  • Mary Ann Barragan, DBA (IT Platforms)
College Scheduler

- Website URL: http://unm.collegescheduler.com/

- Video: College Scheduler Overview
College Scheduler

• Questions?
• Send to:
  • Stirling Crow, stirlingcrow@unm.edu
Student Experience Project

• Goal of the project is to improve the student experience by providing a standardized entry point, reducing the need to visit numerous web sites to find academic journey resources for their degree completion.

• The project will focus on first year (freshmen) students first and then make the functionality available to other classes and other roles (staff, faculty, retirees, etc.)

• Phase 1 - create a static Student Guide in MyUNM
  • Centralize a list of resources to aid students on their journey at UNM
  • The site is revised weekly to keep up with current student events

• Phase 2 - create dynamic and personalized Student Experience site (visible in MyUNM) that includes:
  • Personalized student alerts and events admin tool to allow for self-management
  • Personalized student roadmaps with milestones and associated tasks
  • Integration with student systems
  • Roadmaps for undecided, sophomore, junior, senior students

• Beyond - align alumni, employee, faculty, retiree, affiliate tabs in MyUNM with Student Life tab.
Student Experience - Timeline

Tentative Milestones:

- Fall 2020 - Static Freshman roadmaps, resource links (myUNM Student Guide tab) - done.
- Summer 2021 - dynamic Freshman roadmaps with links, alerts, and events that authorized groups can create, update and publish – in process.
- Fall 2021 - other roadmaps beyond freshman.
- Fall-Spring 2022 - personalized roadmaps, links, alerts, events, data feeds with Housing, Meal Plan, New Student Orientation, and Campus Events systems to improve reporting on student data.
- Spring 2022 - merge Student Life and Student Guide tabs.
- 2022 - align Alumni, Employee, Faculty, Retiree, Affiliate Tabs in MyUNM with Student Life tab.
- 2022 - migrate MyUNM to new architecture.
Student Experience – Student Guide
http://goweb.unm.edu/studentguide/
Student Experience - Demo

* Final design may differ than mock-up
Admin Tool Mock-Up

* Final design may differ than mock-up
Student Experience - Demo

* Final design may differ than mock-up
Student Experience

• Questions?
• Send to: Anne Kirk, axkirk@unm.edu
Tuition Calculator

Project Manager: Anne Kirk
Web Designer: Alex Roessner
Web Developer: Randy Johnson

Project requested by the Daniel Borrego, UNM Bursar
https://bursar.unm.edu/
Completed

Tuition Calculator URL

https://myapps.unm.edu/tuition-calculator/
Tuition Calculator

• Questions?
COVID-Related Applications

• COVID caused everything to change overnight
• As the administration identified needs, IT Applications responded (as did the rest of IT, and every other department on campus!)
• In the past 14 months we developed and deployed over 20 applications and systems related to COVID. Today we will show you a few of them.
### Timeline of COVID-Related Applications

**March: Shutting down the campus**
- Lobo Check-In: Events Registration for COVID Planning
- Lobo Check-In: Travel Registration for COVID Planning

**April: Moving all classes online after Spring Break**
- Lobo Check-In: Early Alerts Form and Process

**June/July: Beginning to re-open campus**
- Lobo Check-In: Facility Re-Open Request and Approval
- Lobo Check-In: COVID Daily Screening of Employees

**August: Fall semester beginning**
- Lobo Check-In: COVID Daily Screening of Students
- Lobo Check-In: COVID Daily Screening of Campus Residents
- TechFinder Map of Computer Labs on Campus
- Microsoft Teams Service for Departmental Use
- Lobo Check-In: Events Request and Approval Process

**September: COVID testing**
- Lobo Check-In: UNM COVID Testing Site
  - Administrator Scheduling
  - Student Self-Scheduling
  - On-Site Check-In
- Lobo Check-In: COVID-Safe Practices compliance audits of opened buildings

**October: Vigilance and contact-tracing**
- Lobo Check-In: Building Entry Tracking

**September-March: COVID tracking and reporting**
- COVID Reporting:
  - Phase 1: Centralization of data sources, creation of covid.unm.edu public dashboard and daily metrics
  - Phase 2: Additional data, automation of most manual processes, automated notifications to local and state agencies
- COVID Administrative System (used by UNM Rapid Response Team to track infections and minimize disease spreading)
  - Phase 1: Data integration and display, view and send testing referrals to classmates, dorm mates, and teammates
  - Phase 2: Manual referrals, person search, referral history and status, high/low risk exposure referral templates
  - Phase 3: Interface and performance improvements, expanded information on main data page, view referrals by group page
  - Phase 4: Expanded integration with COVID data repository, structured interview for contact tracing

**April: Planning for return to campus**
- Lobo Check-In: Vaccination status and automated reminders

**May**
- Lobo Check-In: No-touch Commencement check-in
Lobo Check-In

- Lobo Check-In is a check in management system built on Laravel framework.
- It is built as a platform upon which different “events” can be hosted
- Multiple authentication methods supported
  - Lobocard (Swipe)
  - QR Code (Scan)
  - Banner ID/CAS (KBD)
  - Virtual Card (Scan, NFC, TBD)
  - NM Driver's License (Swipe, TBD)
- Multiple data integrations supported
  - UNM Banner, CAS
  - APIs (Microsoft Flow)
  - Scheduling
  - Email
  - Reports
COVID Testing Appointment Checkin

QR Code Scan

LoboCard Swipe

Banner ID

If you are having trouble logging in or require technical assistance, please contact UNM IT Customer Support Services by calling (505) 277-5707.
Lobo Check-In: Building Entry Check-In

1. Swip your Lobo Card here.
2. Wait for the guard to confirm.
3. Enjoy your time in the library.
Lobo Check-In

- Questions?
Covid Administrative Systems (CAS)

- Served as one of the University's rapid response applications
  - Provided an up-to-date list of positive cases
  - Provided a central storage for positive case status, contacts, referrals, and notes
  - Provided a mechanism for basic contact discovery and referral.
- CAS is a Laravel PHP application
  - Highly integrated with the Lobo Check-in and COVID Reporting data sources.
- Development used a true Agile methodology
  - Had to maximize the Rapid Response Team's time and resources.
  - Leveraged parallel efforts to gather necessary data.
CAS - Functionality

- Stakeholders / Users
  - Rapid Response Team
    - COVID Coordinator
    - HSC Doctors
    - SHAC Doctors & Nurses
    - UNM Public Health Resources

- Data Requirements
  - Positive Case List & Notes
  - Proximal Contact Referral & Notes
    - Housemates
    - Classmates
    - Teammates
    - Co-Workers
  - Initial Positive Case Interviews
  - NM Agency Required Reporting Settings
CAS - Integrative Effort

- Questions?