



#OKSTATEHASANAPP4THAT ENGAGING STUDENTS, COMMUNITY, AND ENTERPRISE

OUTCOMES

The team's aim is to imbue curriculum with ground-breaking teaching methods that prepare students for their dynamic future. In addition, they will test prominent learning theories relevant to the environments they design.

INVESTIGATIVE TEAM

A team of five ambitious scholars have strayed from their academic silos to satisfy intellectual curiosity and better serve the student body of Oklahoma State University and the Stillwater community.

Human Sciences

David W. Davis
Steve Ruby
Hospitality

Arts & Sciences

Blayne Mayfield
Computer Science

Education

Yoonjung Cho
Psychology
Penny Thompson
Technology

TEACHING

By incorporating PBL and SL instructors are able to offer student centric learning environments that promote development of 21st century skills. Moreover, by connecting the two departments together in a real to life scenario the team provides a unique opportunity for students to better understand the roles they will soon play.

RESEARCH

Potential research in human motivation, learning theories, and the like abound with this initiative. The team of investigators seek to add to the theoretical body of knowledge in many areas. This project embodies a constructivist style of learning and encourages thoughtful research questions.

SERVICE

When appropriate the PBL environment has transitioned into SL, which has included using local hotels as observable models to compare and synthesize best practices. Students were able to suggest cost-saving measures as well as design the preference for a suite of mobile apps.

"My interest is in the future because I am going to spend the rest of my life there."

Charles F. Kettering

NEEDS

ethics communication
self-management problem-solving
decision-making teamwork knowledge
professionalism leadership
collaboration project-based learning (PBL)
inter-disciplinary experiential learning
inquiry service learning (SL)
innovation

ANSWERS

Hardware for this enterprising and interdisciplinary initiative has been purchased through the generosity of Hyatt Hotels Inc. Additional support was received from Apple Inc. through Orange Tech at OKSTATE.

The Client Phase (1)

The first phase consists of hospitality students engaging in a PBL venture designed to investigate the best possible use of a mobile application to improve operational efficiency in a hospitality enterprise. Students are placed on different teams and each have a specific role to play. They direct their actions, questions, and eventual output with only ambiguous instructions from the professor. Then, students present their desire for a functioning mobile app to be created in phase two. An example of their results and subsequent presentation is playing on an iPad to the right of this poster.



The Contractor Phase (2)

Phase two includes students in a computer science course learning about iOS development. Through meeting with their "clients," students are challenged in a short time-frame to learn, listen, and create. They must set realistic and affordable expectations and practice professional standards of business and ethics. The result is a functional beta-version of the requested app. Additionally, students create user manuals and appropriate documents for use and training. Over the past two years, students have created three mobile apps. Two of these apps are displayed in the iPads to the right.

