



## **ipro329 Edutainment**

**Using computer games to facilitate learning...**

# Outline

- Mission
- Products
- Describe process with examples
- Summary
- Questions

# Mission

- Edutainment
  - Educational
  - Entertaining
- Create computer games that teach
- Facilitate learning through fun and interactive environment

# College Pursuit

The first 3D computer game about financial aid



1 Login 2 Customize Profile 3 Choose College

## College Pursuit

**Login User**

Username:

Password:

**Instructions**

Returning User - Enter your login name and password.

New User - Register by clicking the 'Register' button.

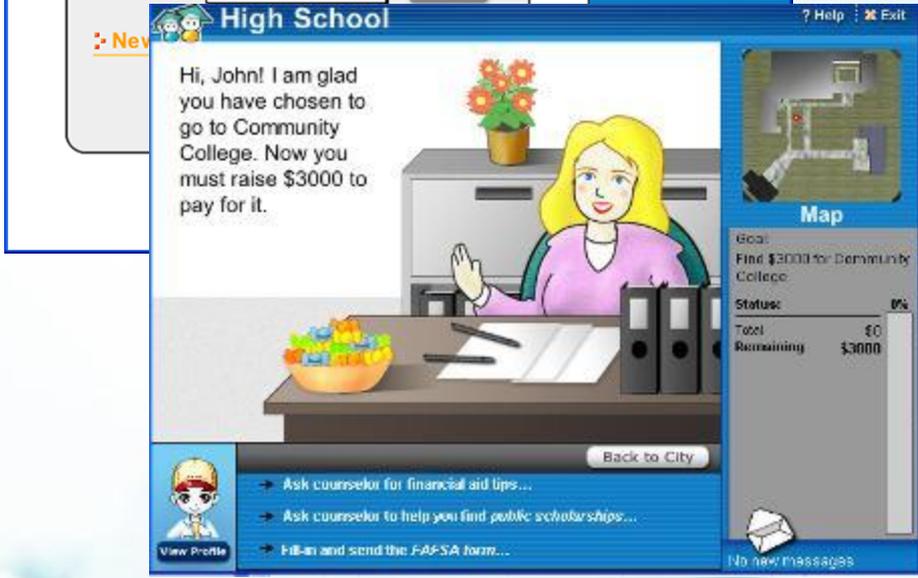


## Bank

Goal: Find \$3000 for Community College

Status: 0%

Total Remaining: \$3000



## High School

Hi, John! I am glad you have chosen to go to Community College. Now you must raise \$3000 to pay for it.

Goal: Find \$3000 for Community College

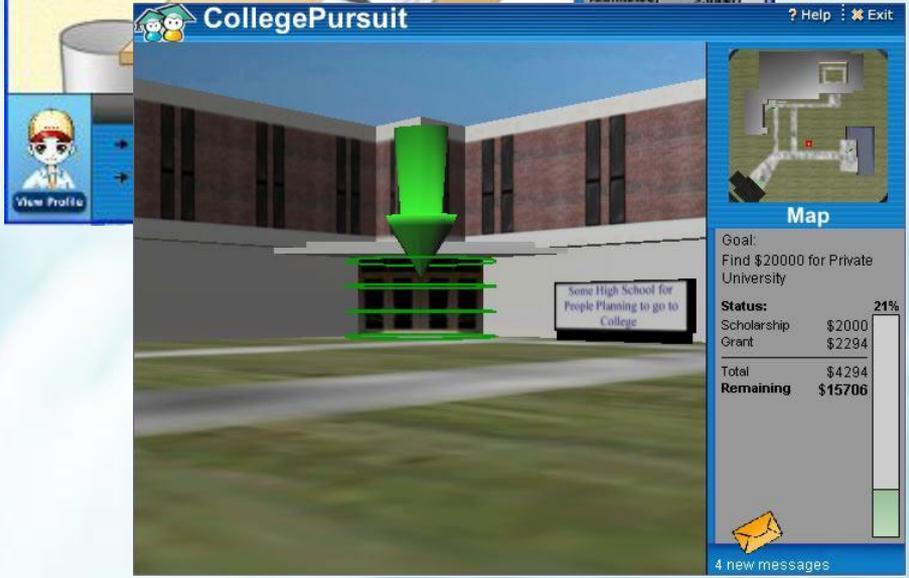
Status: 0%

Total Remaining: \$0

Remaining: \$3000

- Ask counselor for financial aid tips...
- Ask counselor to help you find public scholarships...
- Fill-in and send the FAFSA form...

No new messages



## CollegePursuit

Goal: Find \$20000 for Private University

Status: 21%

Scholarship	\$2000
Grant	\$2294
Total	\$4294
Remaining	\$15706

4 new messages



- 2002 Harris Poll: ~**72%** of youth and parents are **not aware of** basic sources of financial aid such as **scholarships, loans, and grants**
- Educate players about various forms of aid
- Simulate real world situations
- Interactive 3D world

# Scholars of the Lost Exhibit



- hints
- backpack
- map
- save
- quit



- hints
- backpack
- map
- save
- quit



- hints
- backpack
- map
- save
- quit

The logo features a scroll with a map-like pattern on the left and the text "Scholars of the Lost Exhibit" in a stylized, bold, yellow and orange font on the right.

**Scholars  
of the  
Lost Exhibit**

- 2003 state by state assessment of 4<sup>th</sup> graders
  - 38% of students below basic reading standards
  - 24% of students below basic math standards
- Multi-subject game with a museum theme
- Teach and reinforce concepts in a student's curriculum
- In-depth storyline

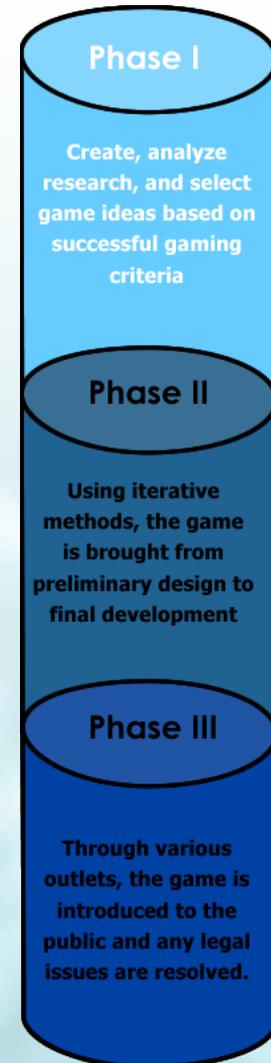
# Pipeline Process

- Business-like approach
- Use a pipeline model

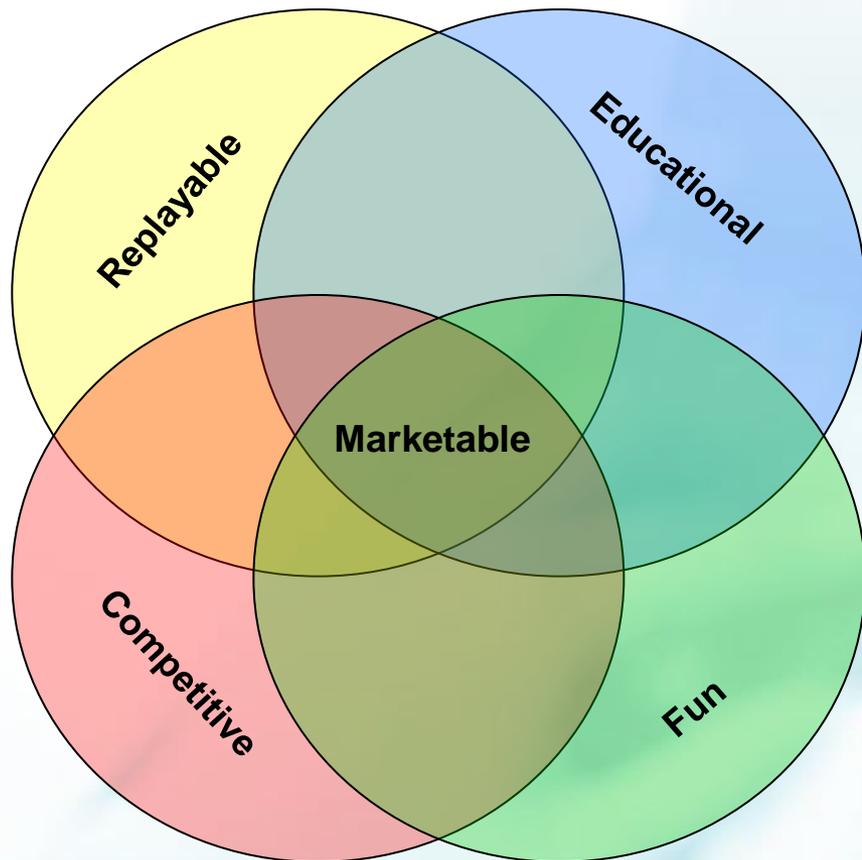


# Phase I

- Criteria
- Brainstorm
- Selection
- Research



# Phase I – Criteria Example



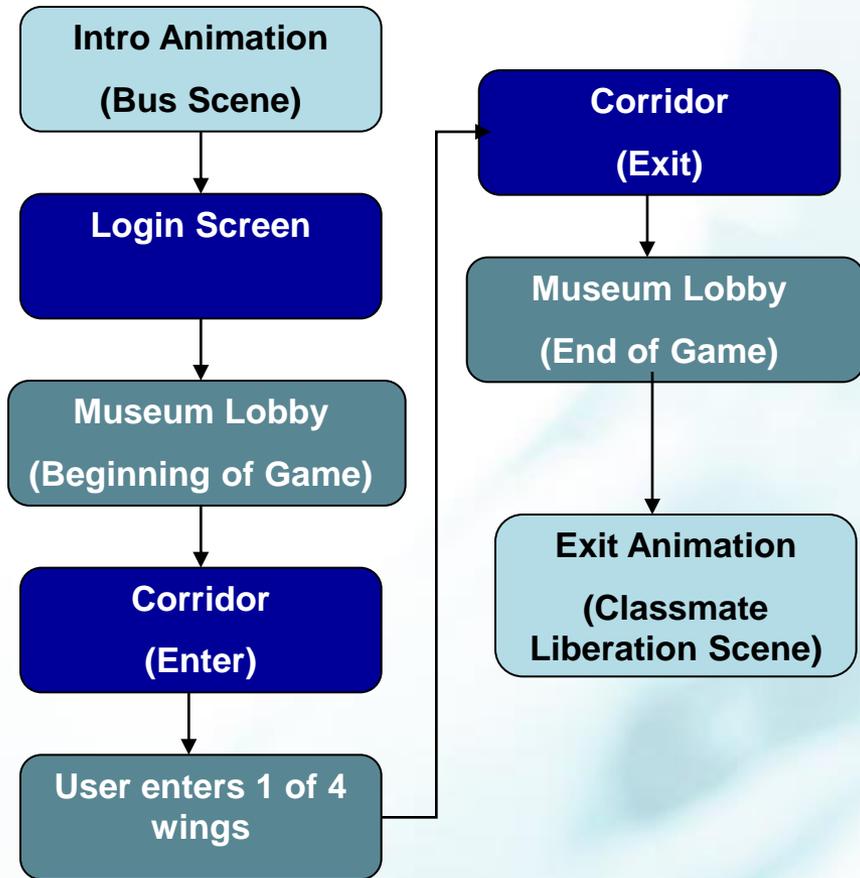
- Overlapping criteria create a marketable product

# Phase II

- **Design**
- **Development**
- **Testing**



# Phase II – High Level Design

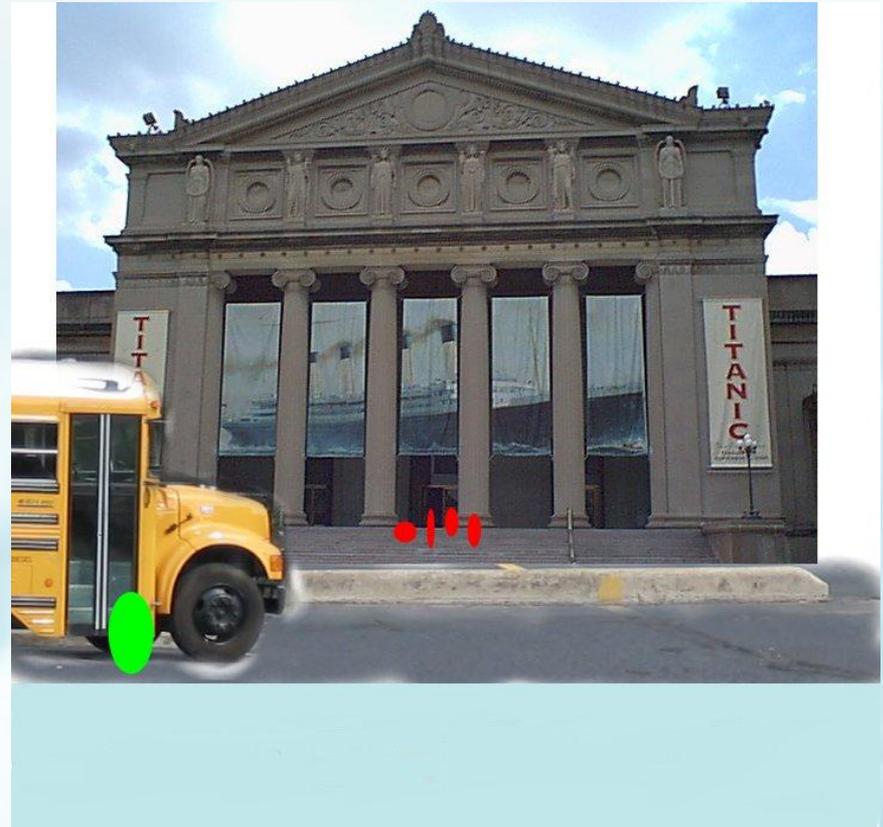


- Provides foundation for lower level design and development

*Scholars  
of the  
Lost Exhibit*

# Setting: Museum Field Trip

- Class field trip to museum
- Player gets separated from their class



# Scholars of the Lost Exhibit

## Main Hall



- Try to find class
- Meet variety of characters
- Explore four wings of the museum
  - Math
  - Science
  - Language Arts
  - Social Studies

# Scholars of the Lost Exhibit

## Museum Wing

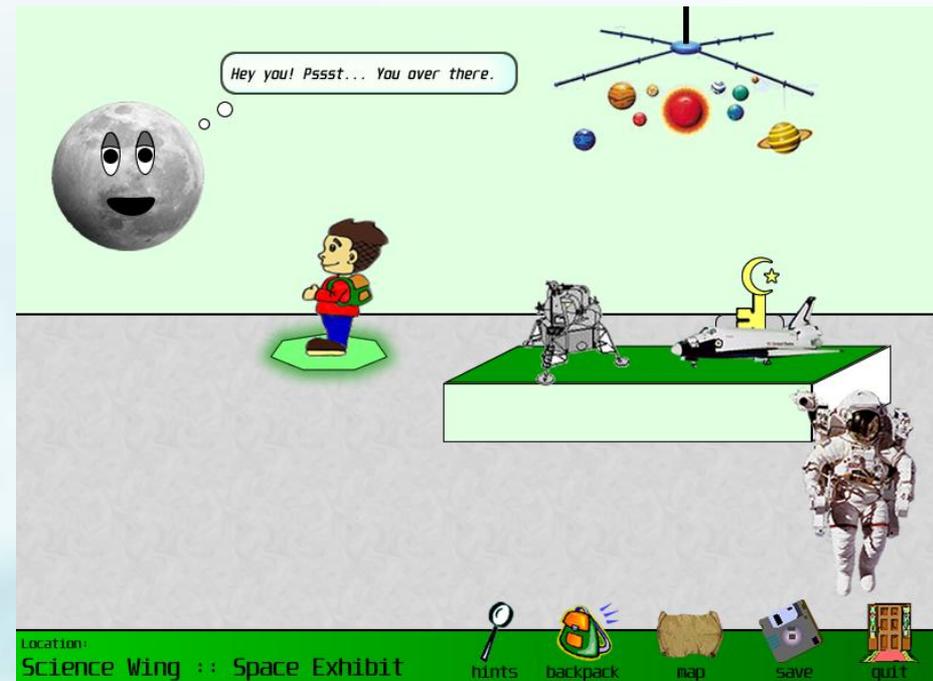


- Meet a boneless dinosaur
- Agree to help recover his bones
- Explore the exhibits

# Scholars of the Lost Exhibit

## Exhibit

- Exhibit filled with artifacts and inanimate objects
- Teaches material
- Games and activities reinforce material
- Receive Key





# Entering Sibling's Den



- All keys of a wing are used together to enter the evil Sibling's Den



# Sibling's Den

- Challenges player to battle of knowledge
- Tests all knowledge learned from exhibits
- Incorporate all games in the wing
- Failure to win results in losing keys

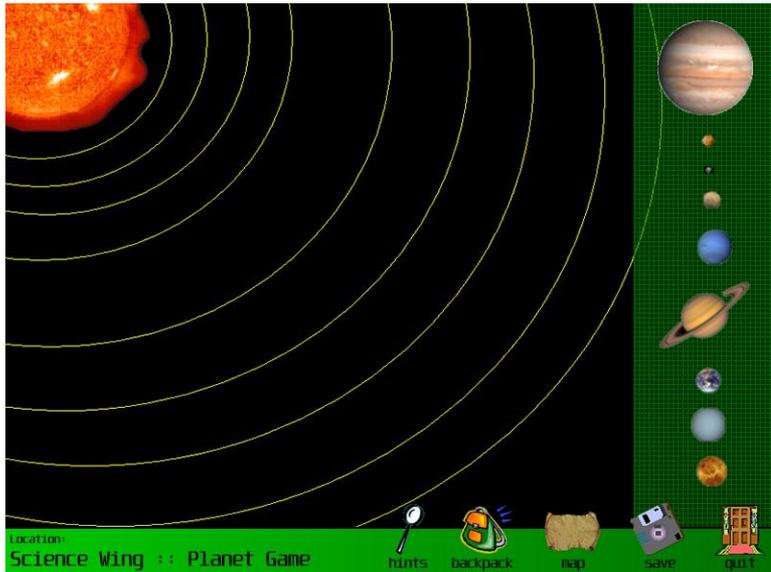




# Saving the class

- Complete all four wings
- Recover all bones of the dinosaur
- Four siblings have captured the class
- Must pass the final challenge in order to save the class and be the hero

# Phase II – Storyboarding



- Storyboarding and screenshots evolve into paper prototypes.

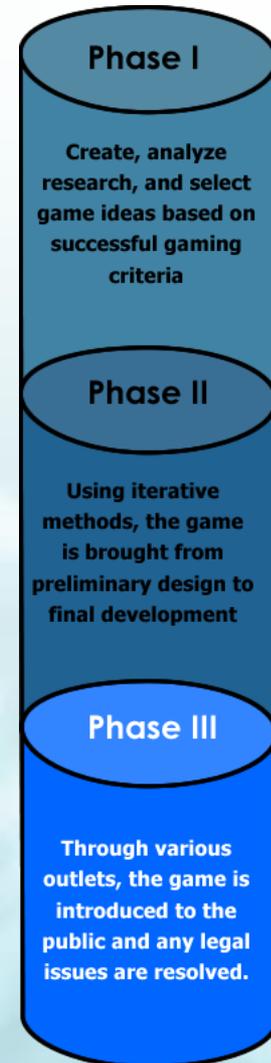
# Phase II

- Design
- **Development**
- **Testing**



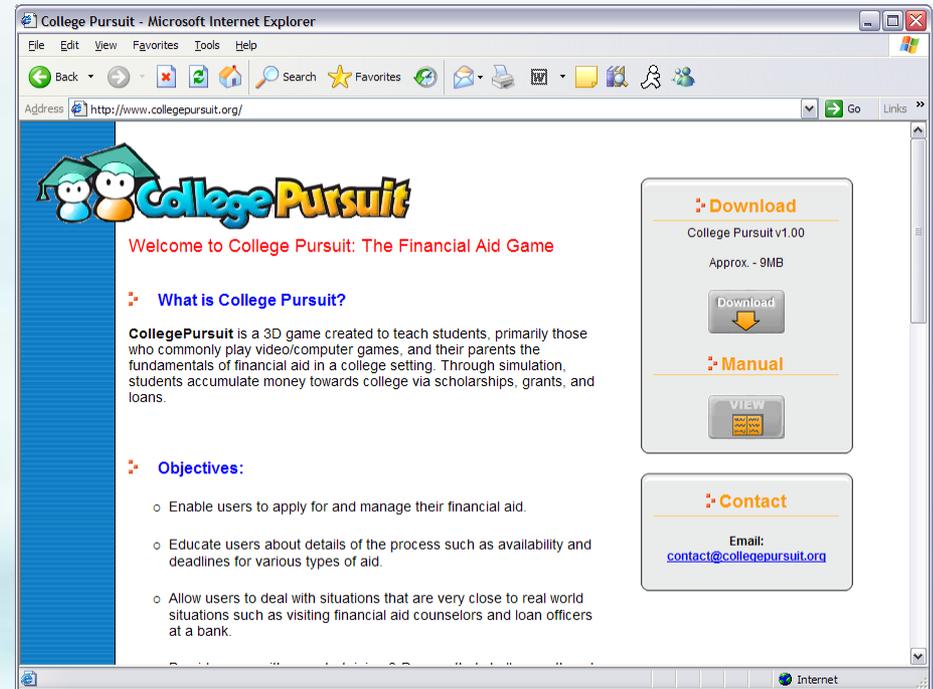
# Phase III

- Marketing
- Rollout



# Phase III – Marketing & Rollout

- Published Website
- Trademark
- STC Competition





# College Pursuit

# Demo

# IPRO Experience

- Operate like a business
- Time management
- Responsibility
- Utilize team member and resources
  - Effectively
  - Efficiently

# Summary

- Pipeline process allowed us to work on two products at once
- Completed and published CollegePursuit
- Laid the foundation for next term



# Looking forward

- Continue Development on Scholars
  - Further design details
  - Further design individual games
  - Begin programming
  - Conduct initial user testing

# Acknowledgements

**Dr. Susan Feinberg** (Faculty Advisor)

## **Marketing & Usability Testing**

Jackie Sokolowski

Jerrell Mardis

Matt Collier

Sean Maloney

Toan Nguyen

## **Development**

Kevin Ruettiger

PJ Swesey

Steve Pfisterer

Wojciech Sierka

## **Design**

Chris Coats

Hosain Manesh

Lauren Joyce

Tony Pacheco

## **Special Thanks to:**

John Duda

Jose Padilla

IIT IPRO Program

All our guests today...



Questions?

**ipro329 Edutainment**

Using computer games to facilitate learning...