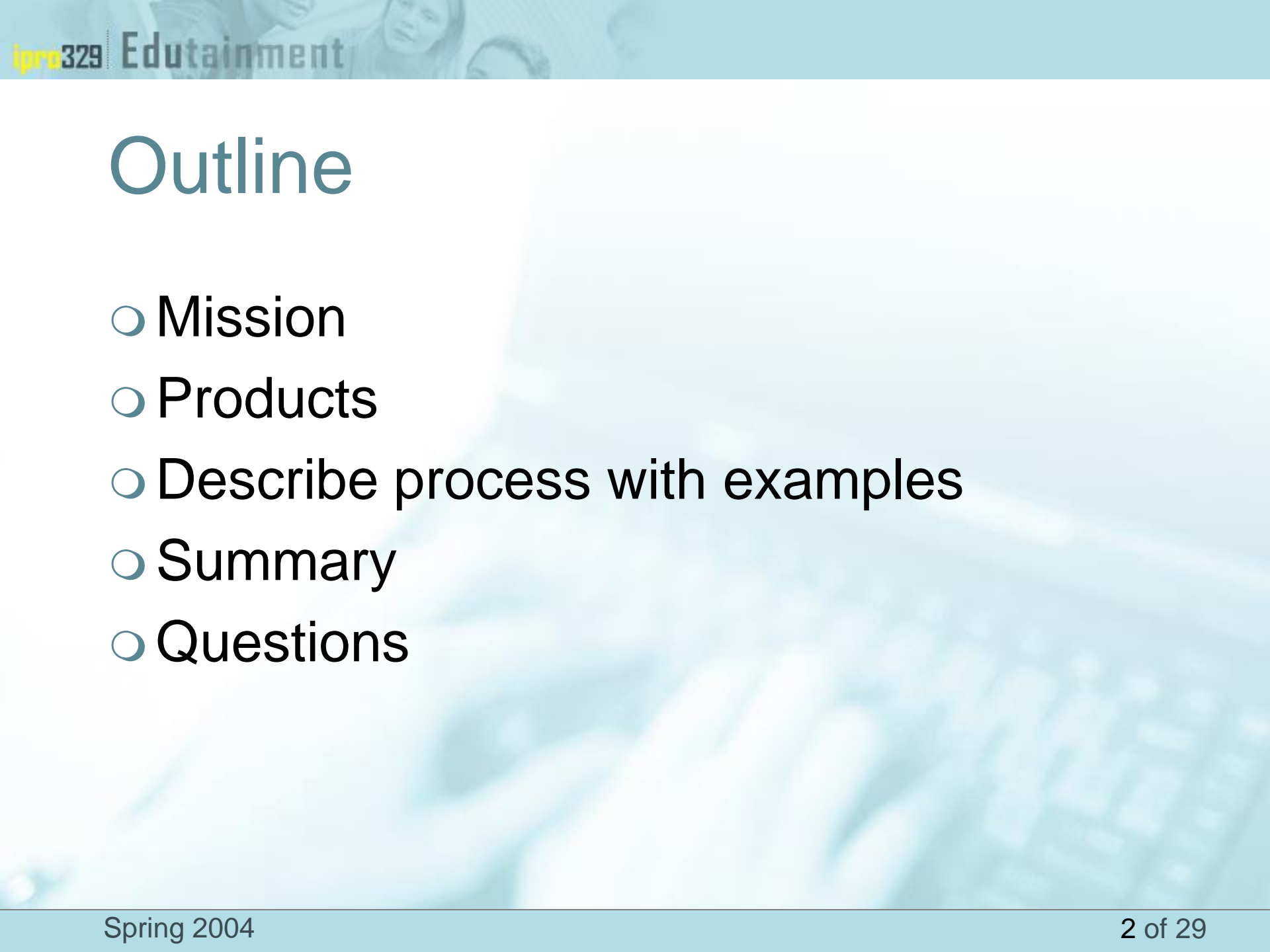




ipro329 Edutainment

Using computer games to facilitate learning...



Outline

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



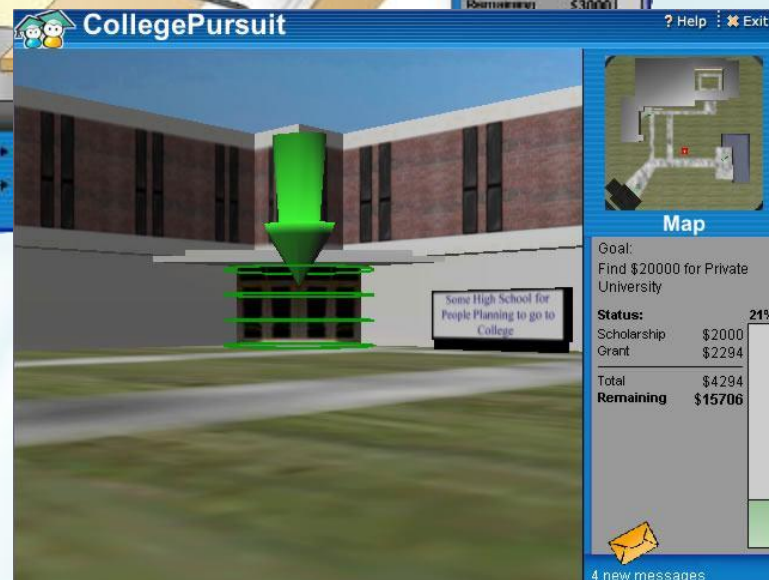
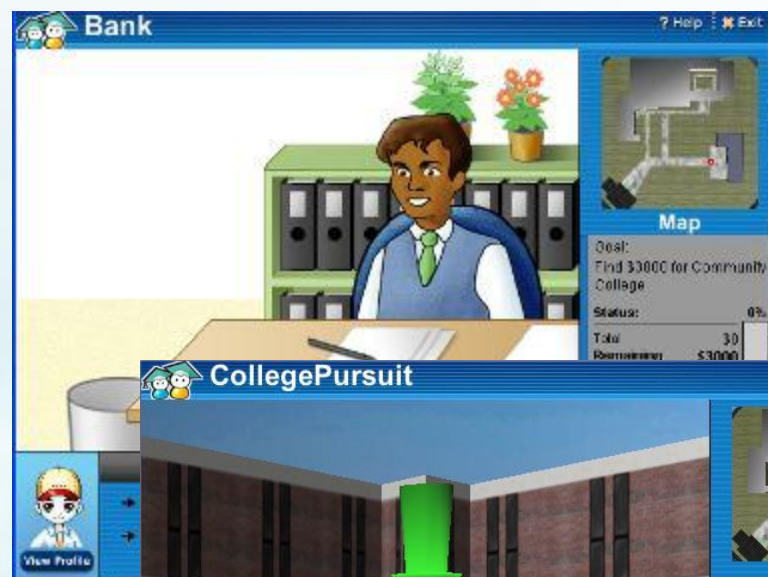
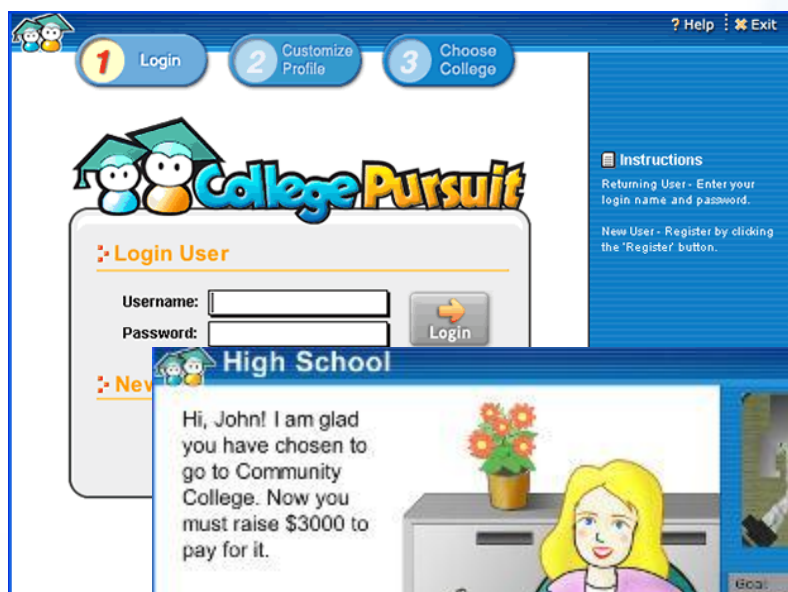
Mission

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



College Pursuit

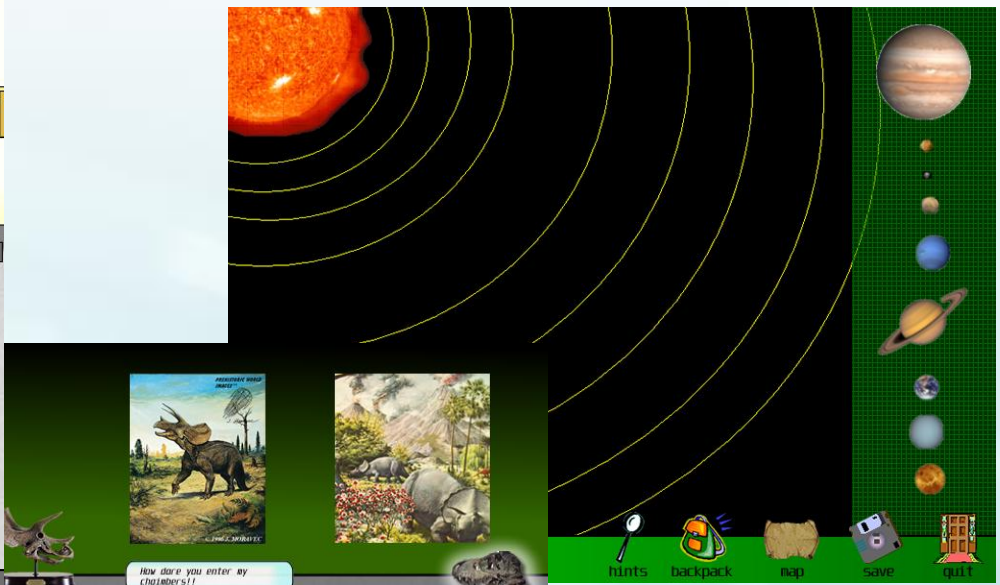
The first 3D computer game about financial aid

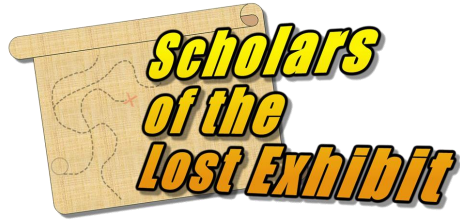




- 2002 Harris Poll: ~**72%** of youth and parents are **not aware of** basic sources of financial aid such as **scholarships, loans, and grants**
- Educate players about various forms of aid
- Simulate real world situations
- Interactive 3D world

Scholars of the Lost Exhibit

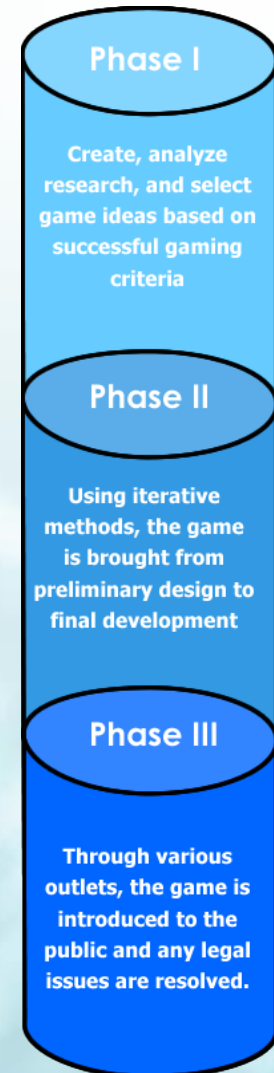




- 2003 state by state assessment of 4th graders
 - 38% of students below basic reading standards
 - 24% of students below basic math standards
- Multi-subject game with a museum theme
- Teach and reinforce concepts in a student's curriculum
- In-depth storyline

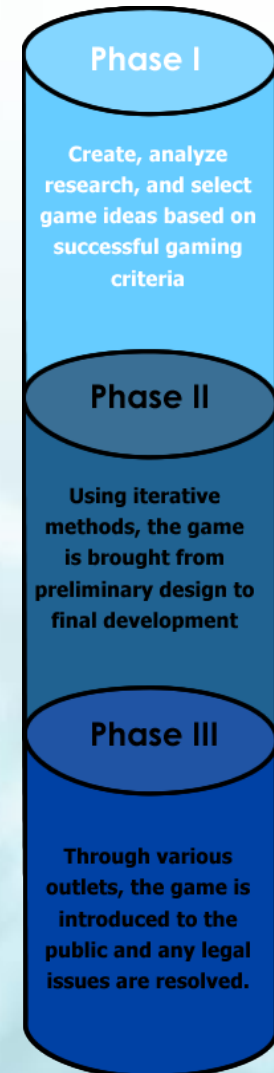
Pipeline Process

- Business-like approach
- Use a pipeline model



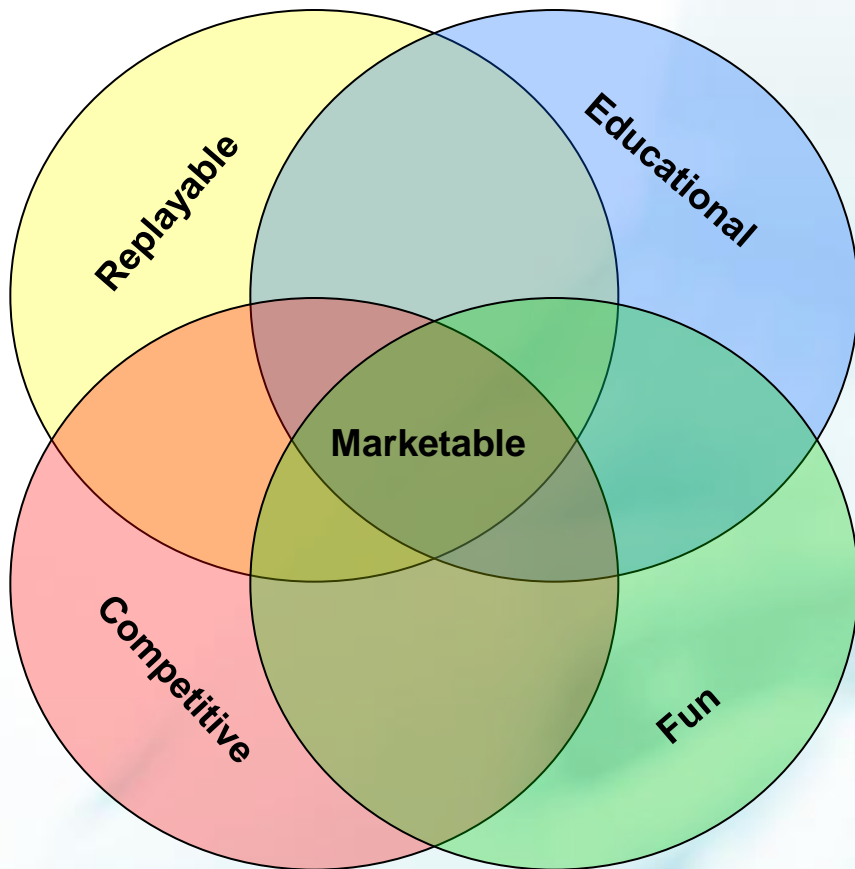
Phase I

- Criteria
- Brainstorm
- Selection
- Research



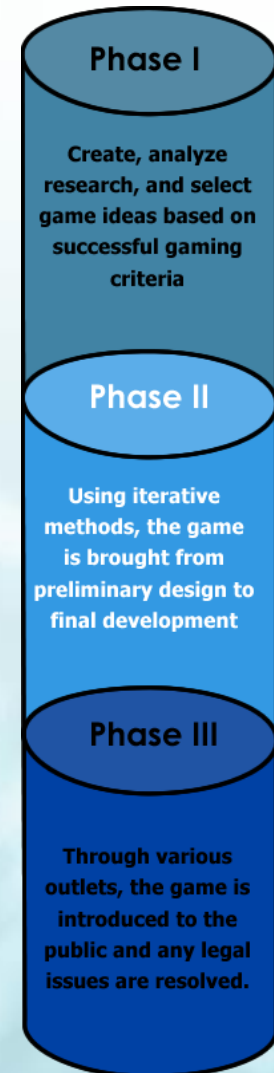
Phase I – Criteria Example

- Overlapping criteria create a marketable product

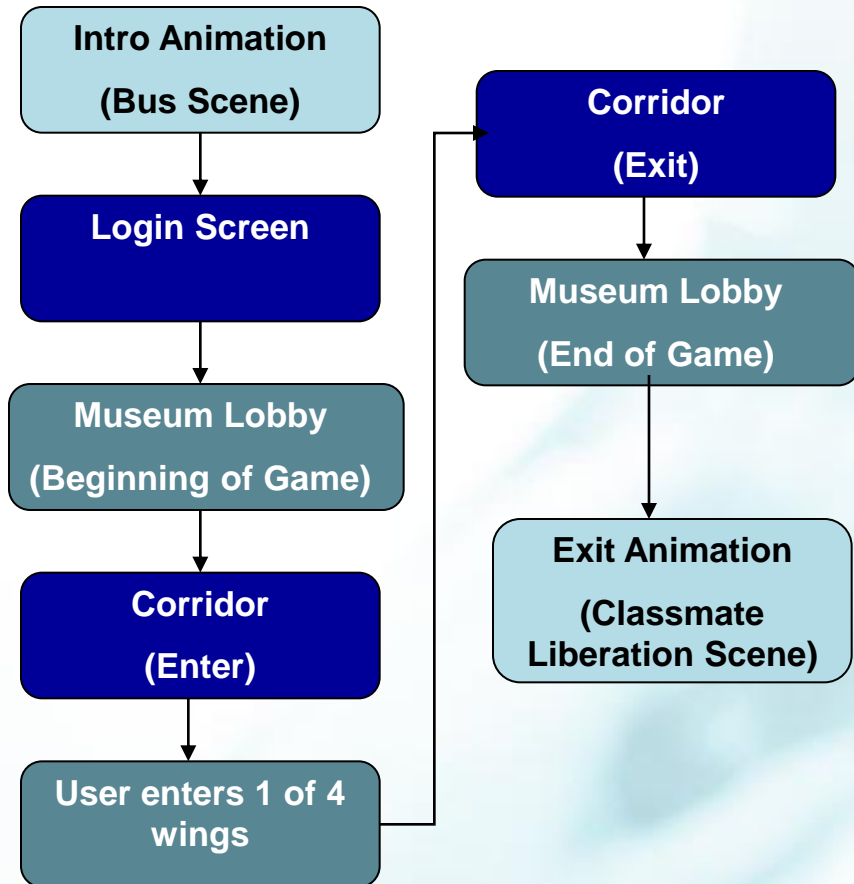


Phase II

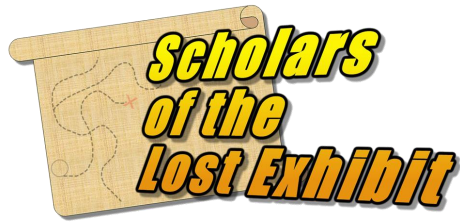
- **Design**
- Development
- Testing



Phase II – High Level Design

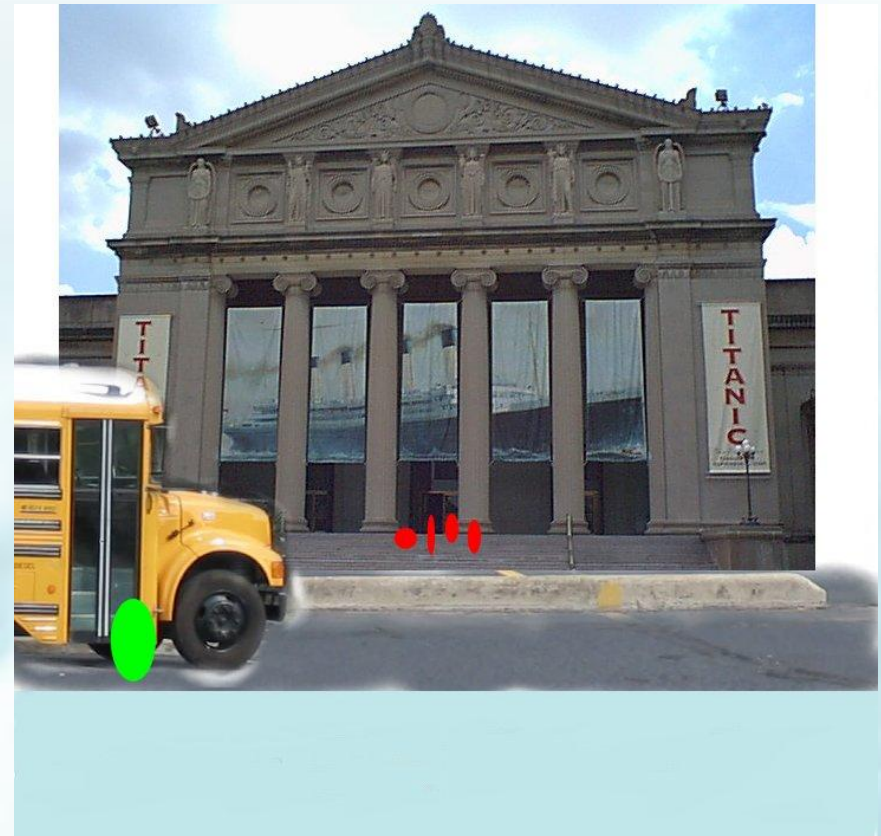


- Provides foundation for lower level design and development



Setting: Museum Field Trip

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

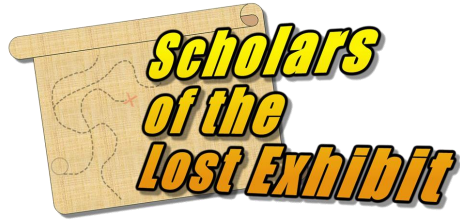


Scholars of the Lost Exhibit

Main Hall



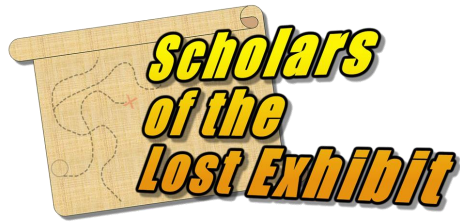
- Try to find class
- Meet variety of characters
- Explore four wings of the museum
 - Math
 - Science
 - Language Arts
 - Social Studies



Museum Wing

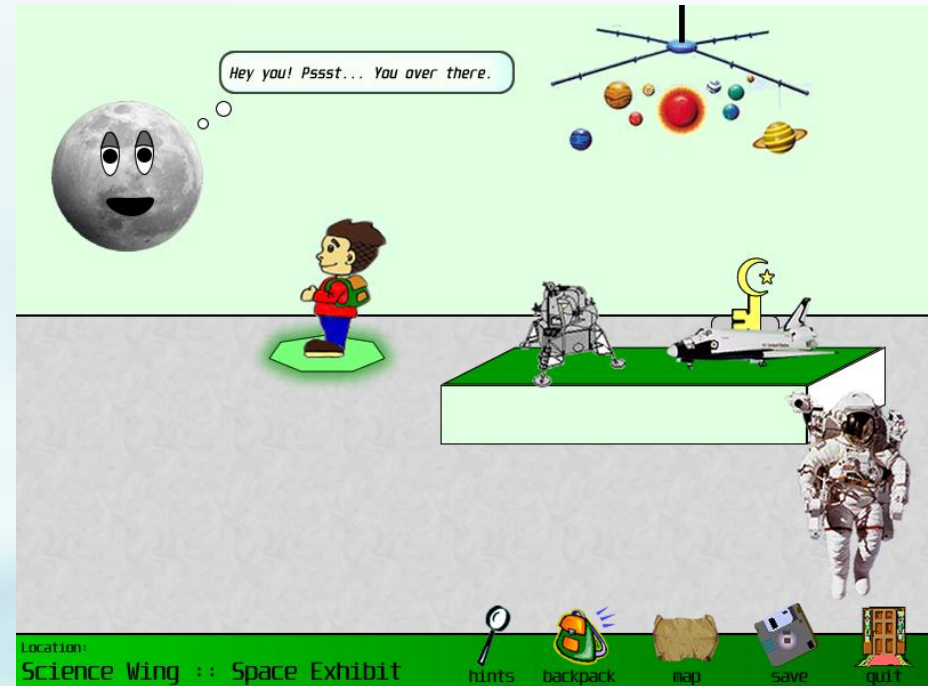


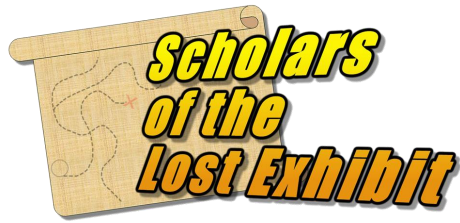
- Meet a boneless dinosaur
- Agree to help recover his bones
- Explore the exhibits



Exhibit

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

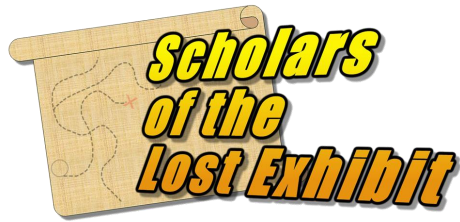




Entering Sibling's Den

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

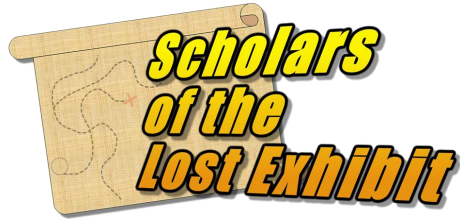




Sibling's Den

- 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

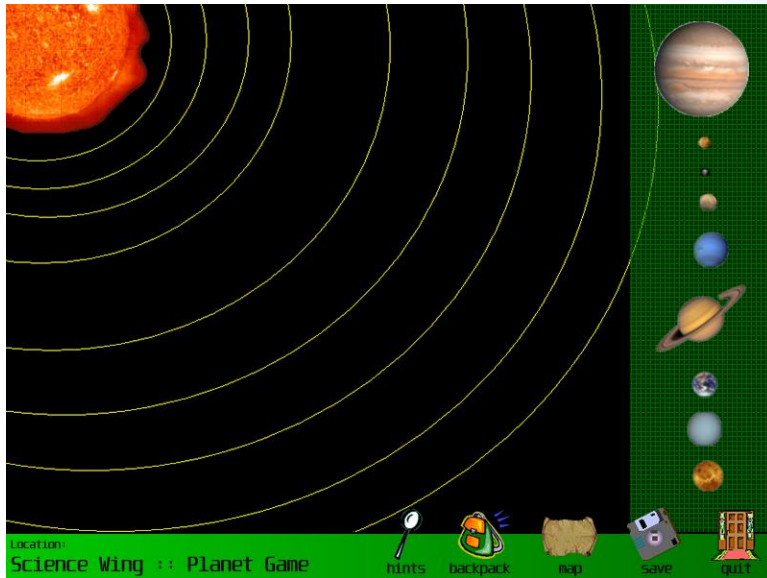




Saving the class

- 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

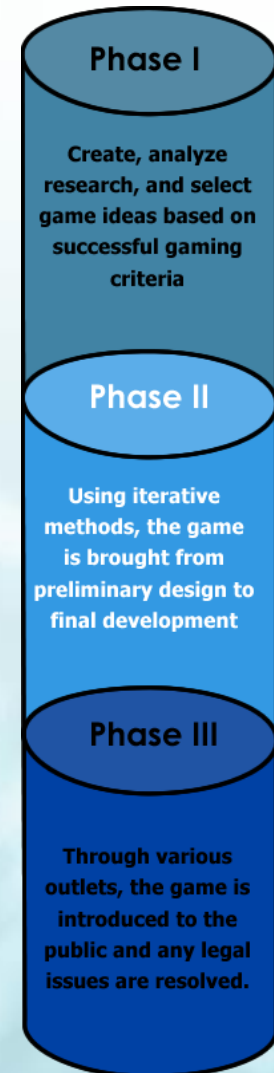
Phase II – Storyboarding



- Storyboarding and screenshots evolve into paper prototypes.

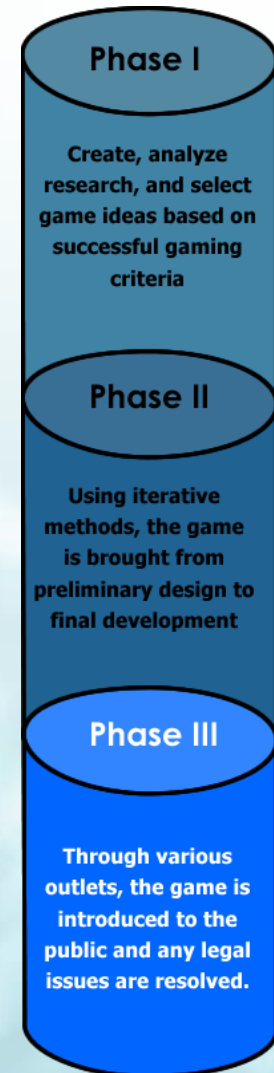
Phase II

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



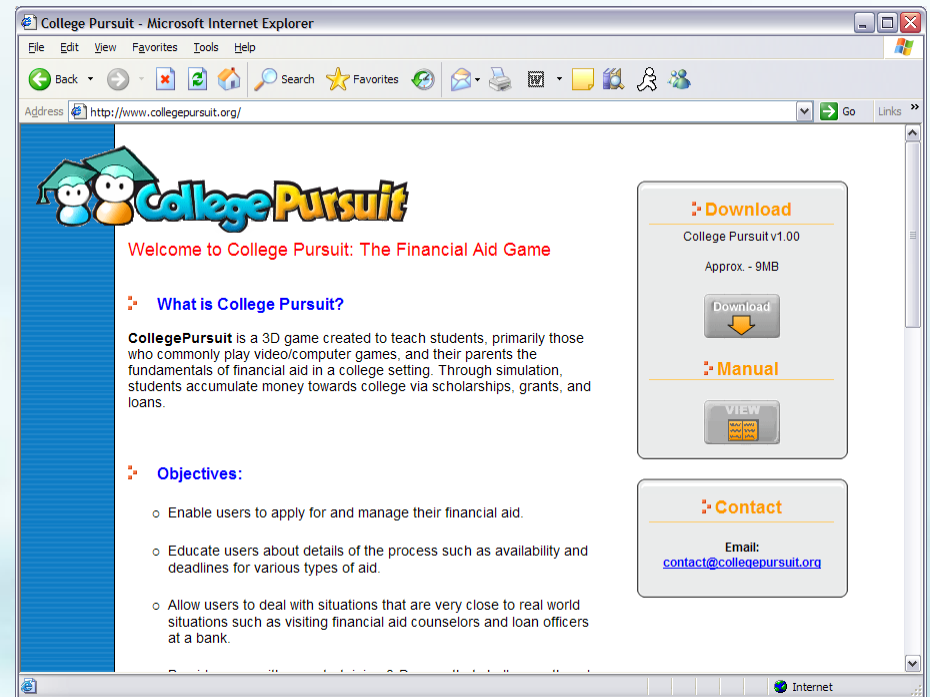
Phase III

- Marketing
- Rollout



Phase III – Marketing & Rollout

- Published Website
- Trademark
- STC Competition





College Pursuit

Demo

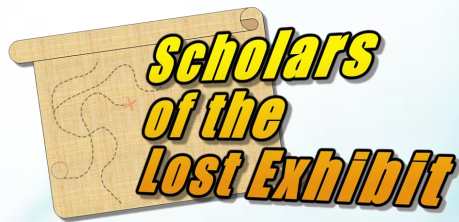


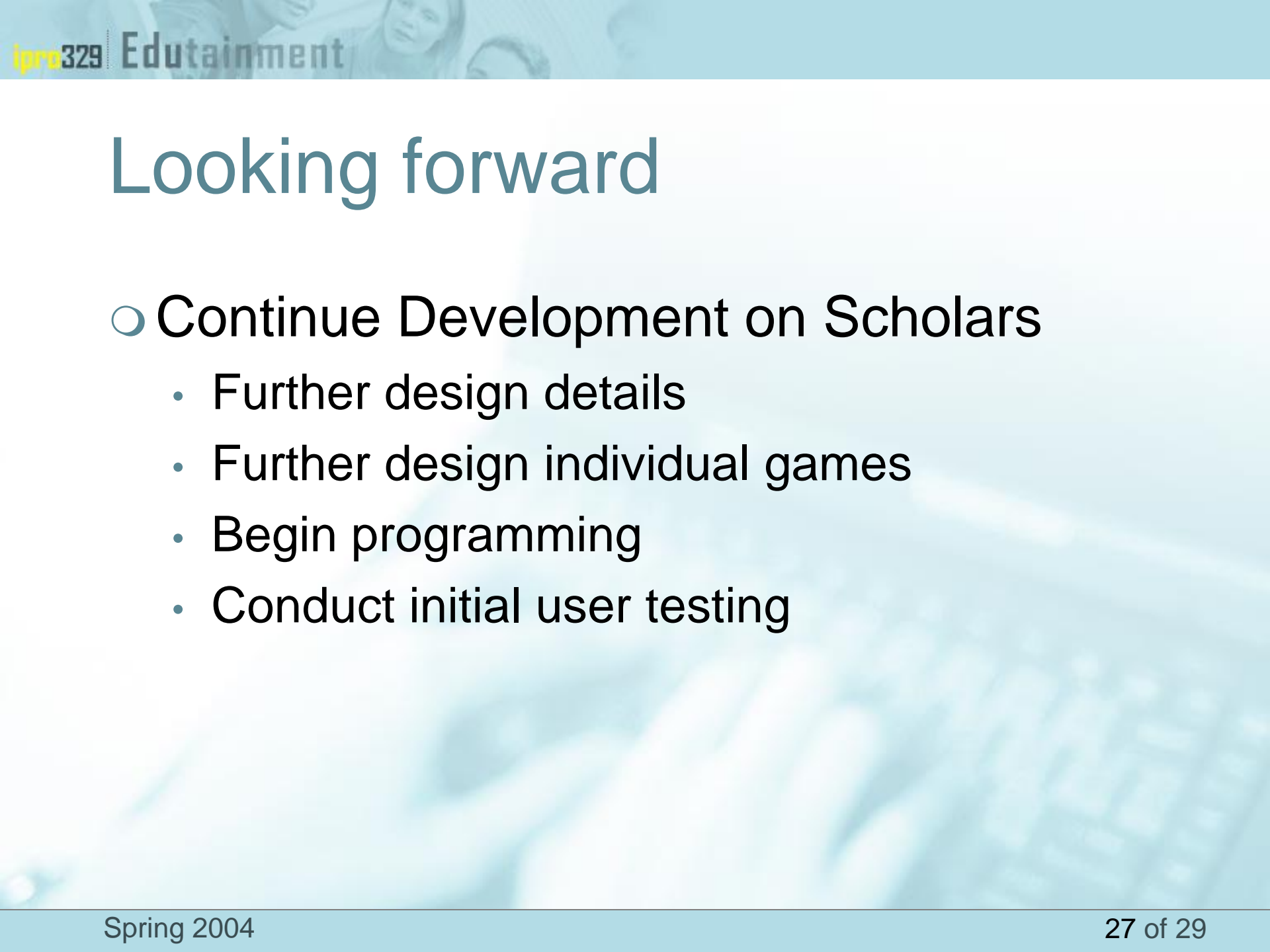
IPRO Experience

- 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)

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IIT IPRO Program

All our guests today...



Questions?

ipro329 Edutainment

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