### Gameful Affinity Space Mission Management Final Presentation

COMS 6901 E sec 028 Fall 2017

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#### Introduction

- Our focus this semester was adding a higher degree of gamification in the affinity space by adding Missions, Quests and Games.
- To enable better collaboration among teachers, we proposed to implement libraries for the Missions, Quests and Games.

#### Background - Missions

- Previously known as Learning Paths.
- Instructors can fill in details of missions (name, description, etc.).
- Multiple quests can be created within a mission by instructors.

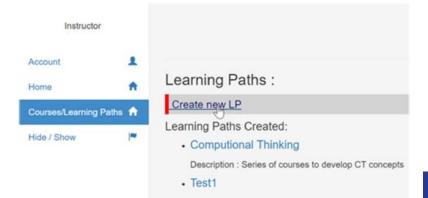
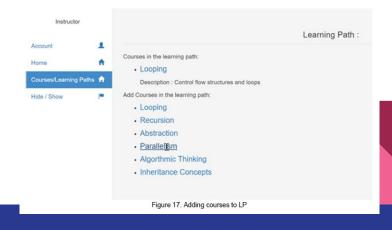


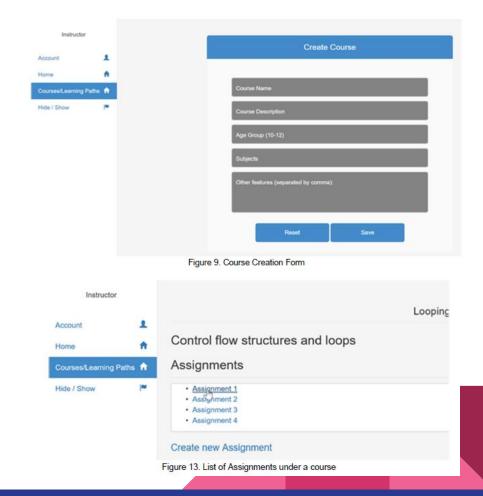


Figure 16. LP creation form



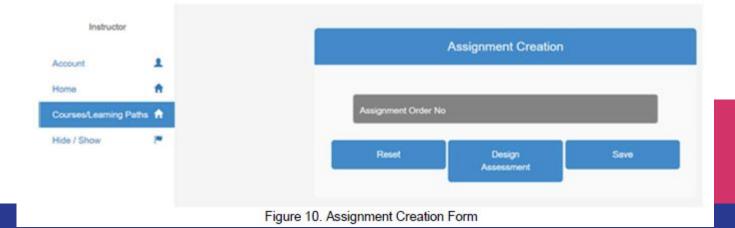
#### Background - Quests

- Previously known as Courses.
- Instructors can fill in descriptions of quests such as name, description, age group, subjects, and other features.
- Multiple games can be created within a quest by instructors.



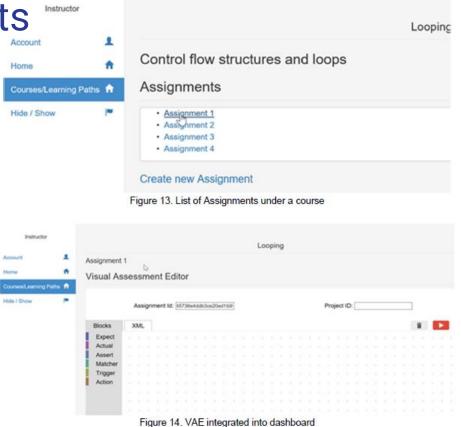
#### Background - Games

- Previously known as assignments.
- Idea is that multiple assessments can be created in a game by instructors.
   For now there is only a way to create one assessment per game.
- Instructors can fill in the assignment number within a quest.



#### Background - Assessments

- Part of the Visual Assessment Editor
- An assessment can be created for each game by instructors.
- Each assessment corresponds to a Game / Assignment ID.
- Games and assessments are more distinct than previously implied.



#### Goals

- Our proposal this semester suggested that our focus would be on Mission and Assessment Creations as well as Teacher's Mission, Quest, and Game Library Navigation.
- After closely looking at the Epics more urgent items were added to this list such as the editing of Missions, as well as Quest and Game creation and Editing.

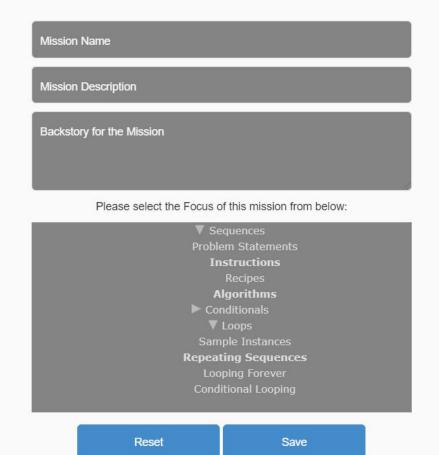
#### **Achievements - User Stories**

- Mission Creation
- Quest Creation
- Mission Editing
- Quest Editing
- Student Mission Navigation
- Library Navigation

# Additions - Mission Creation

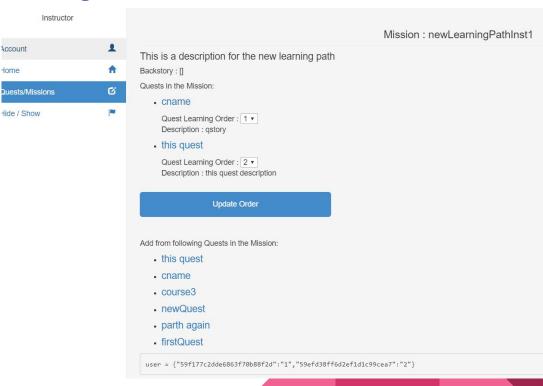
- Previously named Learning Paths
- Instructor can now add specific areas of focus to missions.
  - This is implemented using treeOptions and a new model which is the curriculaltemModel

#### Create Mission



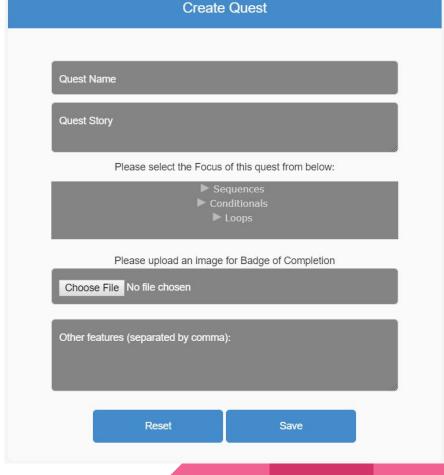
#### **Additions - Mission Editing**

- Instructors can now add and update the order of quests within a mission
- Instructors can add
   premade quests straight to
   the mission they are
   editing



# Additions - Quest Creation

- Previously named Courses.
- Instructor can now add a specific area of focus of a quest within a mission.
- An image can now be uploaded as a badge of completion for the quest.



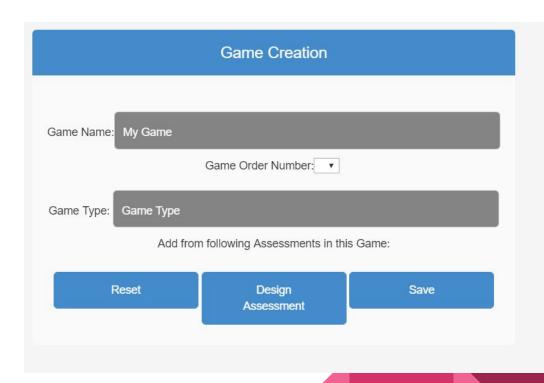
#### Additions - Quest Editing

- Quest details such as name and description can now be updated.
- Instructors can add as well as remove games in a quest.
- Instructors can update the order of games within a quest

	Quest: this quest
Name:	
this quest	
Description:	
this quest description	
Update Quest Details	
Games	
× v Game	Assessments here Assessments here Assessments here Assessments here Assessments here
x ▼ Game new assignment	Assessments here Assessments here Assessments here Assessments here Assessments here Assessments here
x ▼ Game my new game again	Assessments here Assessments here Assessments here Assessments here Assessments here
Create new Game	
Update Order	

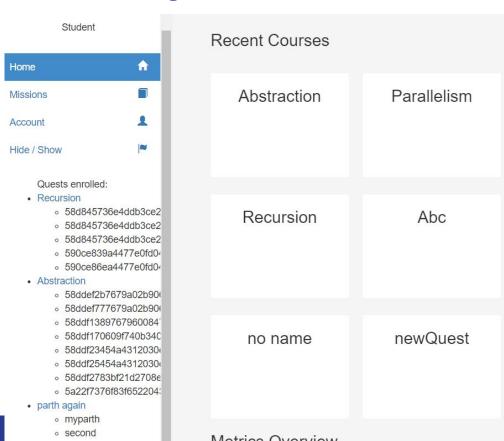
#### **Additions - Games**

- Instructors can now add a game with a name, game order, and game type within a quest.
- Note: It would be nice if instructors could add precreated assessments to the game similar to missions.



#### Additions - Student Mission Navigation

- Hierarchy of Quest and Games set. When enrolled quest is clicked student can see associated quests
- Student can now see the quests they are enrolled in the navigation bar as well as the assignments associated with those quests.
- This can be implemented as a treecontrol for easier navigation for a student.



#### **Additions - Library Navigation**

- 3 libraries
  - Missions
  - Quests
  - Games
- Currently, developing a framework for the same
- Further UI modifications can be done. It'll show a list of all items in the library.

#### Libraries

- Missions Library
  - All Missions
  - On clicking on a mission, traverse to Quest library (quests within that mission)
- Quests Library
  - All Quests
  - On clicking on a quest, traverse to Games library (games within that mission)
- Games Library
  - All Games in the community

#### **Branch Cleaning**

- Assessment Server (<a href="https://github.com/cu-sage/sage-node">https://github.com/cu-sage/sage-node</a>)
  - After merging other branches forked a development branch
- Affinity Space (<a href="https://github.com/cu-sage/sage-frontend">https://github.com/cu-sage/sage-frontend</a>)
  - After merging other branches forked a development branch
  - Current development on the new branch
- Towards the end of the semester all branches other than development and master will be dropped

#### Demo

#### Issues / Challenges

- Renaming caused confusion
- Working with bugs
- Limited knowledge of Angular

#### Future / Suggestions

- Documentation of existing workflow
- Clean up code (assigment vs. assignment variable names)
- To combine the Front-end, SAGE editor, and SAGE assessment server into one server and repository as opposed to having them separated.
- Student being able to enroll in a Learning Path

#### References

- https://gudangdaya.atlassian.net/wiki/spaces/SAGE
- https://github.com/cu-sage/Documents
- <a href="https://docs.angularjs.org/misc">https://docs.angularjs.org/misc</a>

### Thank you!