Repository Entry Template Embedded EthiCS @ Harvard Teaching Lab

CourseCS 179 Useful and Interactive SystemsCourseCourse tave:UndergraduateInteractive products that are useful, usable and that address important needs of people other than yourself. You will learn how to uncover needs that your customers cannot even articulate. You will also learn a range of design principles, effective creativity-related practices, and techniques for rapidly creating and evaluating product prototypes. You will also have several opportunities to formally communicate your design ideas to a variety of audiences. You will complete two large team-based design projects. ¹ Module TopicGamificationElis Miller LarsenSpring 2021Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS]ModuleIn this module we discuss the ethics of gamification.Overview:Gamification is the intentional application of various elements of game design tool used to increase motivational states and incentivize non-game life.Gamification is a central design tool used to increase motivational states and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation nucle provide. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy.		Overview		
Course DescriptionThe course covers skills and techniques necessary to design innovative interactive products that are useful, usable and that address important needs of people other than yourself. You will learn how to uncover needs that your customers cannot even articulate. You will also learn a range of design principles, effective creativity-related practices, and techniques for rapidly creating and evaluating product prototypes. You will also have several opportunities to formally communicate your design ideas to a variety of audiences. You will complete two large team-based design projects. ¹ Module Topic Semesters TaughtGamification [Elis Miller LarsenSemesters Taught Semig 2021Spring 2021 Tags: System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS] In this module we discuss the ethics of gamification. Gamification is the intentional application of various elements of game design to ono-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivit, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway		-		
Description:products that are useful, usable and that address important needs of people other than yourself. You will learn how to uncover needs that your customers cannot even articulate. You will also have averal opportunities to formally communicate your design indices. You will also have several opportunities to formally communicate your design ideas to a variety of audiences. You will complete two large team-based design projects. ¹ Module Topic:Gamification Spring 2021Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS]ModuleIn this module we discuss the ethics of gamification. Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway	Course Level:	Undergraduate		
 yourself. You will learn how to uncover needs that your customers cannot even articulate. You will also learn a range of design principles, effective creativity-related practices, and techniques for rapidly creating and evaluating product prototypes. You will also have several opportunities to formally communicate your design ideas to a variety of audiences. You will complete two large team-based design projects.¹ Module Topic: Gamification Module Author: Elis Miller Larsen Semesters Taught: System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS] Module Overview: Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney. While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are aintroduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to This course is concerned with various ways to make system suseful or interactive. Gamification is one way in which this is done. The module looks at the ethical conciderations surrounding this practice. 			-	
You will also learn a range of design principles, effective creativity-related practices, and techniques for rapidly creating and evaluating product prototypes. You will also have several opportunities to formally communicate your design ideas to a variety of audiences. You will complete two large team-based design projects. ¹ Module Topic:Gamification Elis Miller LarsenSemesters Taught:Spring 2021Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification is the intentional application of various elements of game design too no-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fibit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as to to choose from, as well as a lot of theoretical leeway	Description:			
 techniques for rapidly creating and evaluating product prototypes. You will also have several opportunities to formally communicate your design ideas to a variety of audiences. You will complete two large team-based design projects.¹ Module Topic: Gamification Module Author: Elis Miller Larsen Semesters Taught: Spring 2021 Tags: System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS] Module In this module we discuss the ethics of gamification. Overview: Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney. While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification sub as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. 				
 several opportunities to formally communicate your design ideas to a variety of audiences. You will complete two large team-based design projects.¹ Module Author: Elis Miller Larsen Semesters Taught: Spring 2021 Tags: System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS] Module In this module we discuss the ethics of gamification. Overview: Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fibbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney. While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. 				
audiences. You will complete two large team-based design projects.1Module Topic:GamificationModule Author:Elfs Miller LarsenSemesters Taught:Spring 2021Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS]ModuleIn this module we discuss the ethics of gamification.Overview:Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., litbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.Gamification is currently a hot tystem sugeful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway				
Module Author:Elis Miller LarsenSemesters Taught:Spring 2021Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS]ModuleIn this module we discuss the ethics of gamification. Gamification is the intentional application of various elements of game design to on-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fibti and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.Gamification is a centeral design to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Connection to Course Material:This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy.				
Module Author:Elis Miller LarsenSemesters Taught:Spring 2021Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS]ModuleIn this module we discuss the ethics of gamification. Gamification is the intentional application of various elements of game design to on-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fibti and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.Gamification is a centeral design to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Connection to Course Material:This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy.	Module Topic:	Gamification		
Semesters Taught:Spring 2021Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS]ModuleIn this module we discuss the ethics of gamification.Overview:Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.Gamification is a concerns. After students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy.Connection to Course Materiai:This course is concerned with various ways to make system useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy.	-			
Tags:System design [CS] games design [CS] manipulation [phil] exploitation [phil] value capture [phil], gamification [phil] [CS]ModuleIn this module we discuss the ethics of gamification.Overview:Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fibit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy.Connection to Course Material:This course is concerned with various ways to make system sueful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy.	Semesters Taught:			
ModuleIn this module we discuss the ethics of gamification.Overview:Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification, they practice identifying these harms in a series of real world examples.At the end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway	_			
Overview:Gamification is the intentional application of various elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.While end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway		[phil], gamification [phil] [CS]		
 elements of game design to non-game life. Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney. While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway 		-		
Gamification is a central design tool used to increase motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.Herein the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway	Overview:			
motivational states and incentivize non-game activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.Herein a series of real world examples.Connection to Course Material:This course is concerned with various ways to make systems useful or interactive. Gamification is one way in 				
activities. Key examples can be found in the private sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples.At the end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway		-		
sector, e.g., Fitbit and Duo Lingo, as well as the corporate sector, e.g., Uber and Disney.While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway		-		
 While gamification can offer great benefits by way of increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. 				
 increasing user engagement and productivity, it also raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. 		corporate sector, e.g., Uber and Disney.		
 raises ethical concerns. After students are introduced to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. 		While gamification can offer great benefits by way of		
 to potential harms of gamification such as manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway 		increasing user engagement and productivity, it also		
 manipulation and exploitation, they practice identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. 				
 identifying these harms in a series of real world examples. At the end of the module students are asked to redesign a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. 				
 examples. At the end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway 				
At the end of the module students are asked to re- design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway				
 design a gamified system in order to ease worries of manipulation and exploitation. This activity allows the students to think more critically about how designers can mitigate any potential harms to users. Connection to Course Material: This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice. Gamification is currently a hot to fexamples to choose from, as well as a lot of theoretical leeway 				
Connection to Course Material:This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway				
Connection to Course Material:This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway				
Connection to Course Material:This course is concerned with various ways to make systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.Gamification is currently a hot topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway		students to think more critically about how designers		
Course Material:systems useful or interactive. Gamification is one way in which this is done. The module looks at the ethical considerations surrounding this practice.topic in CS and Philosophy. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway		can mitigate any potential harms to users.		
which this is done. The module looks at the ethical considerations surrounding this practice. Instructors will have a lot of examples to choose from, as well as a lot of theoretical leeway			-	
considerations surrounding this practice. examples to choose from, as well as a lot of theoretical leeway	Course Material:			
as a lot of theoretical leeway				
			-	
students, i.e. there are a lot of				

¹ https://glassmanlab.seas.harvard.edu/cs179.html

philosophical concepts that can be used to frame the topic.

Another apt topic for this course is the ethics of nudging. A nudge is an alteration in the decision environment that aims to influence human behavior. Gamified systems include nudges, and students might naturally connect the ethical issues surrounding gamification to those surrounding nudging, which include manipulation and exploitation, as well as paternalism.

	Goals	
Module Goals: Key Philosophical Questions:	GOAIS 1. Introduce students to the idea of gamification by providing key examples in the private and corporate sectors 2. Consider ethical considerations that arise from gamification 3. Have students participate in a design activity where they are in charge of mitigating any potential exploitation or manipulation by the gamified system 1. What is gamification? 2. What are common features of games? 3. How might gamification harm users? 4. What is "value capture"? Does it harm users? 5. How might gamification be manipulative? How might a gamified system be exploitative?	The questions are chosen in order to help students (1) identify how gamification operates in CS fields and (2) identify common features with familiar games, e.g., board games and computer games. The
		subsequent questions focus on the idea of gamification as an application that might cause harm to users.

	IVIa	terials
Key Philosophical Concepts:	 Manipulation Exploitation Value Capture Agency 	Manipulation is a strategy of influence that fails to sufficiently engage our capacities of deliberative and rational choice. Exploitation, on the other hand, typically involves a power asymmetry wherein a vulnerability is targeted to advance the interest of the powerful at the cost of the weaker party. Value capture is a notion from philosopher Thi Nyguen. It is the idea that gamification simplifies

Assigned Readings:	 "Gamified Life" by Vincent Gabrielle Aeon (optional) "Gamification and Value Capture" in Games, Agency and Art by C. Thi Nguyen 2020. 	our values, and those simplified values can take the place of our richer values in reasoning and motivation. These concepts show us different ways in which agency might be compromised by gamification. The reading provides an introduction to the use of gamification by corporations such as Uber, Lyft and Disney. It focuses on Disney's gamification system to raise the question of whether Disney employees are being manipulated or exploited by the gamified hospitality system. The article pairs well with the module activity where students are asked to redesign the Disney system. The optional reading is a great background to prepare for the course. The chapter from Nguyen's book argues that gamification is an ethical problem and that "value capture", a central concept in
		Nguyen's book, is key to explaining the problem.

		Implementation	
Class Aganda	1	·	
Class Agenda:	1.	Introduce gamification via several examples,	
	•	e.g., Fitbit, Uber, Duo Lingo, Disney, and Twitter.	
	2.	Have students think through the different game	
		elements and how they appear in the above	
		examples.	
	3.	Provide an overview of the usefulness of	
		gamified systems, i.e., how games can improve	
		life, productivity, interest and help users meet	
		their goals.	
	4.	Introduce the ethical worries that arise from	
		gamified systems: manipulation, exploitation,	
		and value capture.	
	5.	Have the students assess the examples from the	
		introduction to test whether they exhibit	
		manipulation or exploitation.	
	6.	Conclude with an activity to re-design a system	
	0.	so that it is less manipulative and exploitative	
		for users.	
Sample Class	"Ei	x It": In groups of 3-4 students are asked to	Disney's work tool measures
-		•	-
Activity:		lesign the Disney work tool so that it is both	worker productivity in two forms.
		ful and interactive, keeping the end goal of	First works have machines for
	inc	reased productivity.	laundering sheets and other hotel

	Students must determine the user incentives, how the game is scored, and what elements will be added to or removed from the original design so that the system is less manipulative and exploitative. After the activity, students share their findings with the class.	linens. The machines monitor how long it takes a worker to complete a wash and will signal the worker to speed up if they are falling behind regulated production time frames. There is also a grand scoreboard in the work area where workers are ranked based on their productivity. Workers who are on schedule or better are highlighted in green, while those who have fallen behind are highlighted in red. These two features of the tool create a gamified setting where workers feel pressure to compete with each other and their timed machines.
Module Assignment:	Students are asked to come to the module with comprehension questions from the reading. Many student questions included big picture questions, such as "How does ethics interface with design?" "What are the guidelines for ethical gamification design?" and "Who determines whether a gamified system is ethical?"	The Embedded Ethics TA is a guest lecturer who teaches one module. Having students provide comprehension questions prior to the module running allows the fellow to get to know the strengths and weaknesses of the students comprehension of the material prior to teaching.
Lessons Learned:	Students were generally familiar with the concept of gamification but were less familiar with the ethical implications. For this course students produce an end of the year project. The students and course head were interested in implementing gamification into future CS projects.	