Understand Your System & Initial Design

Task: Design a contestability process for your given algorithmic system.

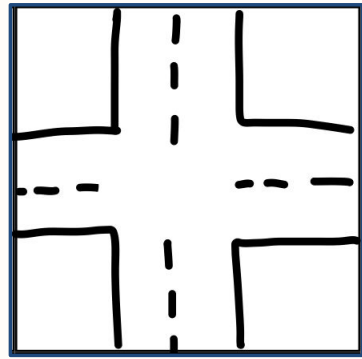| #	Algorithmic System	Group Members
1	Automated resume screening	
2	Student accused of using AI	
4	Targeted advertising	
5	Credit card application	
6	Public facial recognition (e.g., at grocery stores)	

1 Context: Brainstorm
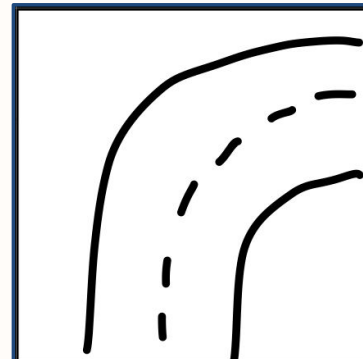- **Identify** who is affected, and why they might contest

2 Initial Design: Process and System
- **Create** a contestation process, and identify who is (not) involved
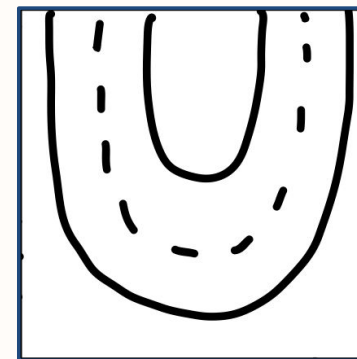- **Note** any design choices related to the system
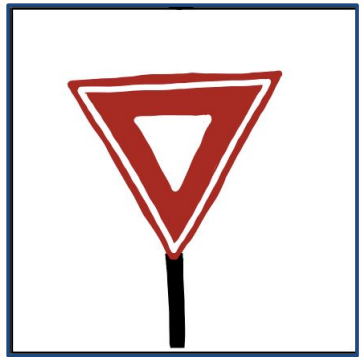
Create a Contestable Algorithmic System

Intersection: Unsure about a design decision

Turn: Adjust a previous design decision

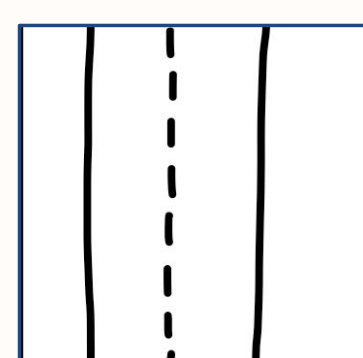**U-Turn**: Reverse a design decision

Yield: Impact to keep in mind
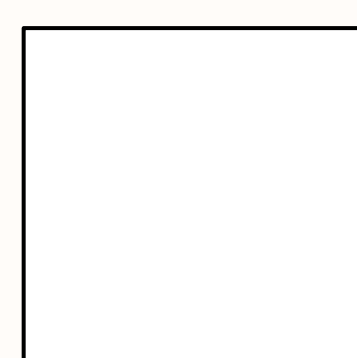
Stop: Critical impact affecting design

Road Blockage: Design blocker

Wild Card: Your choice of meaning

Road: To connect design decisions

Blank: Fill in as needed

1. Choose a **question card**
2. In your group, discuss the answer to the question and how it affects the design of your system
3. On sticky notes, write
   a. A summary of your discussion
      i. e.g., What designs did you consider? What were your concerns?
   b. Your design choice
   Glue down question card, and attach this card to the question card
4. Use the **path cards** to represent your design decisions, possible impacts, and any other concerns
   a. For each path card selected, answer the questions on a sticky note and attach to the path card
5. Repeat with the next question

Example: The Autograder

System Context ❓
How might contestation be constrained by other factors, such as organizational policies and system values?

Review grades carefully

Design choice: Provide a simple form to fill out

Effectiveness of Contestation ❓
How much effort is required from impacted parties to contest?

Conflict between TA workload and more careful review of grades

School may not want to increase TA hours

Possible privacy concerns; make sure to ask students before using

Decision-Making Quality ❓
How can you ensure that outputs that are fair, particularly for marginalized communities?

Design choice: Create a representative sample of student assignments for model training

START HERE