### **Assignment - 2** COMPSCI 325 - Fall 2021

**Due: September 23rd 11:59 pm.**

This assignment consists of 1 part. After finishing the assignment, submit 1 PDF on Gradescope.

**Part 1: Designing an accessible stove** (50 points)

Imagine that you have been hired by a cooking school. You are tasked with designing a stove to go in a newly renovated kitchen for use with community programs.

In this kitchen, the school will host a range of cooking educational programs targeted at different community groups, including:

1. Families cooking with young children,
2. New immigrants to the community, and
3. Seniors.

Your stove design MUST work for all of these groups.

**Design considerations:**

**A.** (10 points) List 5 (total) factors that matter to the community groups. For example, what can each group do or not do? What would they need and want?

**B.** (6 points) List 3 contexts of use. How will this stove actually be used? Who will use it and under what conditions?

**C.** (6 points) Rank the design considerations you listed above in terms of importance, then answer: Why did you decide those considerations were the most important?

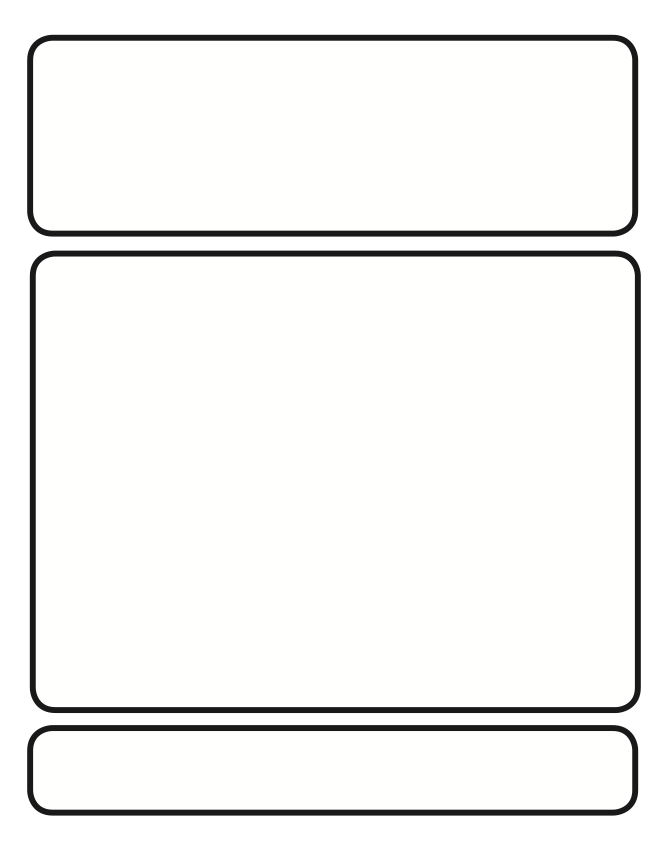
**Review existing designs:**

**D.** (16 points) Look at the following 4 stove designs and identify at least 1 desirable feature and 1 undesirable feature of each. **Zoom in to see the text in the images.**

|  |  |  |
| --- | --- | --- |
|  | **Desirable features** | **Undesirable features** |
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**Design your own stove:**

**E.** (6 points) Sketch and label your own design based on the considerations you identified before.



**F.** (6 points) Justify why your design is the best. Your justification should be in the form of a bulleted list and should argue why your design satisfies the design considerations that you identified in Part A.