

# CPT203 Software Engineering 1

## Tutorial/lab: Software design

**Q1. Draw diagrams showing a logical view and a process view of the architectures of the following systems:**

1. A computer-controlled video conferencing system that allows video, audio, and computer data to be visible to several participants at the same time.

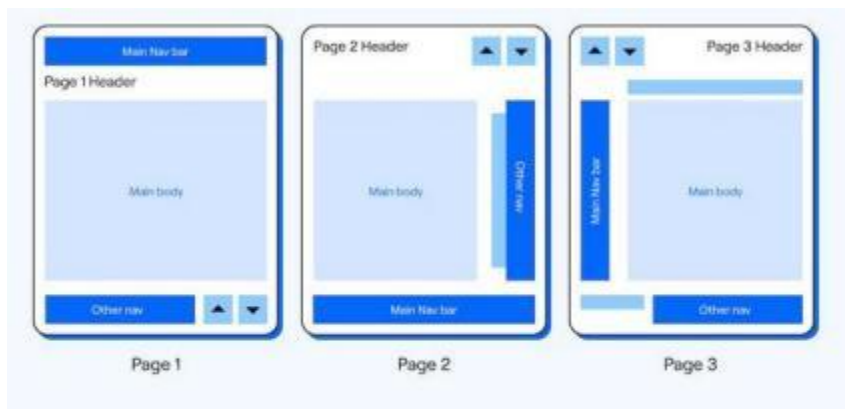
2. A robot floor cleaner that is intended to clean relatively clear spaces such as corridors. The cleaner must be able to sense walls and other obstructions

**Q2. For each of the following architectural patterns described in the textbook, describe a real-world or example application system which should be designed using the pattern.**

- MVC
- Layered
- Repository
- Client-server
- Pipe and filter

**Q3. Identify the issues in the following interface design and describe how the issues can be fixed.**

Design 1



## Design 2



## Design 3

