

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.

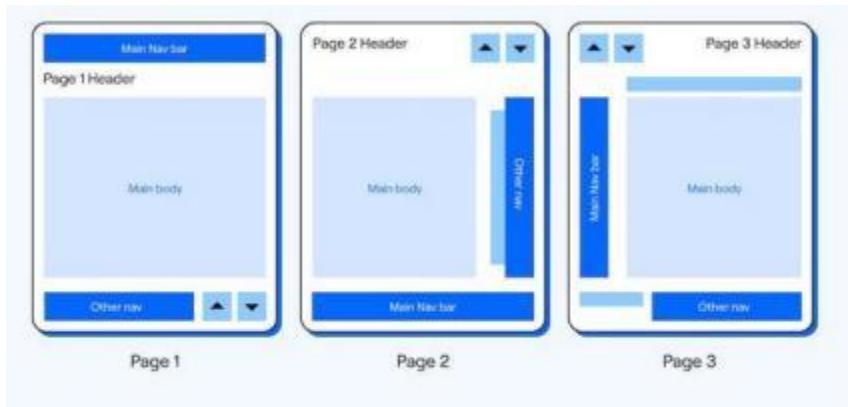
2. A robot floor cleaner that is intended to clean relatively clear spaces such as corridors. The cleaner must be able to sense walls and other obstructions

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

