

Software Engineering - Assignment 3: Component & User Interface Design

If you have a Study.com College Accelerator membership and are seeking college credit for this course, you must submit an assignment and pass the proctored final exam. You must submit your assignment before registering for the final. Below you will find prompts and instructions for submitting your assignment.

About this Assignment

In this course, you have learned how to create class-based component design.

In this assignment, you will develop a complete class-based design for an in-home smart thermostat that controls heating, air conditioning, and a fan.

Upon completion of this project, you will be able to:

- Define class-based component design
- Develop a data flow diagram, state chart, activity diagram, and interface descriptions
- Design a user interface
- Develop a testing plan
- Justify the design for the user interface and the testing plan.

Scenario

You are the IT manager of a company that makes in-home smart thermostats. Before you develop any code or build any product, you will need to create a system design that can be reviewed by your IT departments and key users.

This requires you to establish a design that is both functional and easy to use. You have decided to use a **class-based** design for the product, and so all subsequent design decisions flow from this. After developing the class-based design, you will establish the technical flow diagrams (data flow, state chart, etc.). These should be clear and understandable to the IT staff.

Once the flowcharts are constructed, you can continue with a user interface design, always thinking from the users' point of view. You may think you know what a user wants, but many companies also bring in end-users to provide feedback on your design.

Finally, you'll need to justify your design and decisions to upper management before you can

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