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# Coding Careers

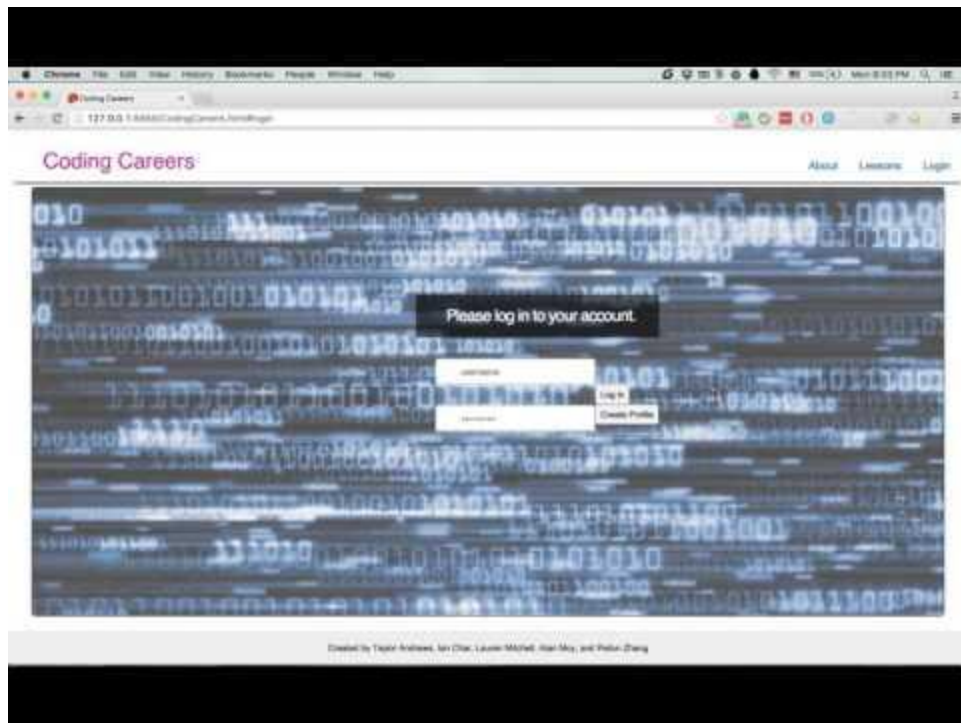
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# About

- Teach code to middle school students
- Focus on possible careers
- Framework: GWT
  - Created by Google
  - Focused on OO design

**Demo**



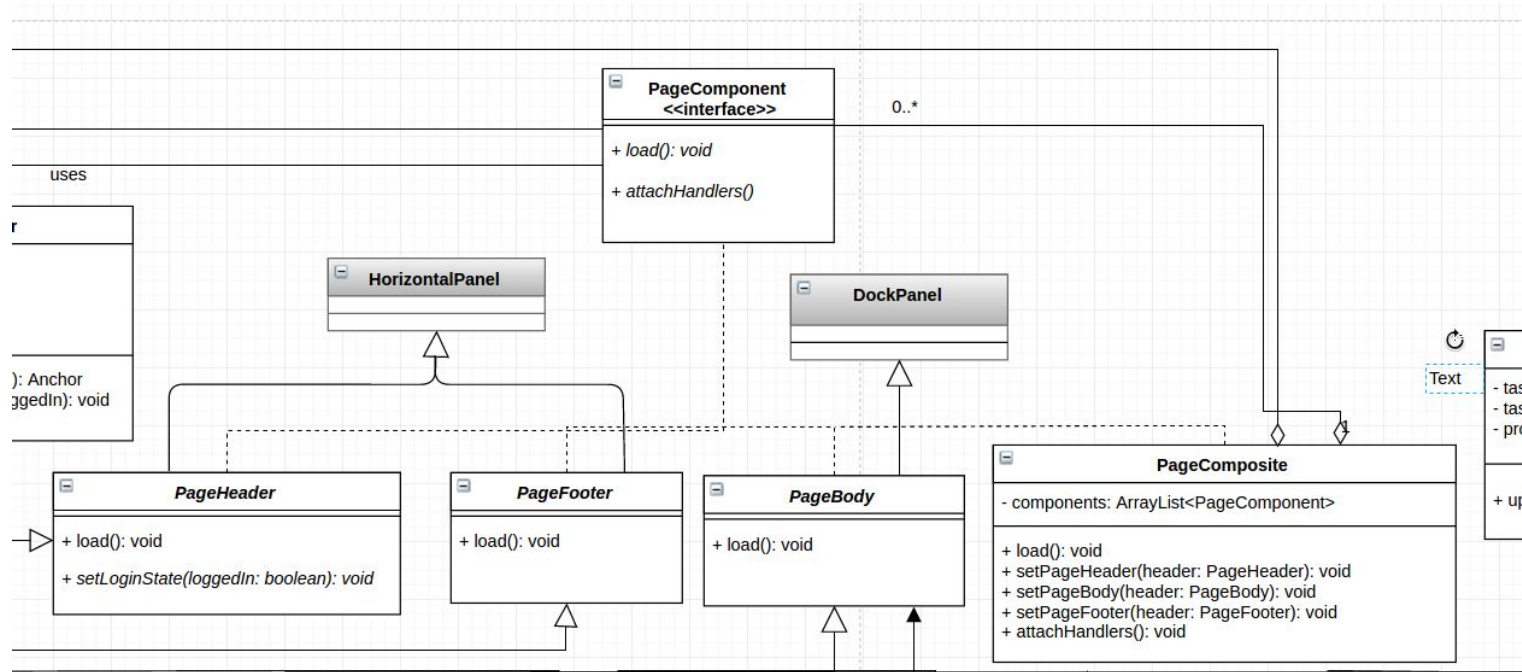
# Design Patterns

# Composite

- What components does a webpage have?
  - Header
  - Body
  - Footer
- Our site loads each component into single HTML page
- Using composite design pattern we can load the whole page at once.

# Composite

- Simplified Code
- Add additional components easily if need be
- Change page bodies via polymorphism

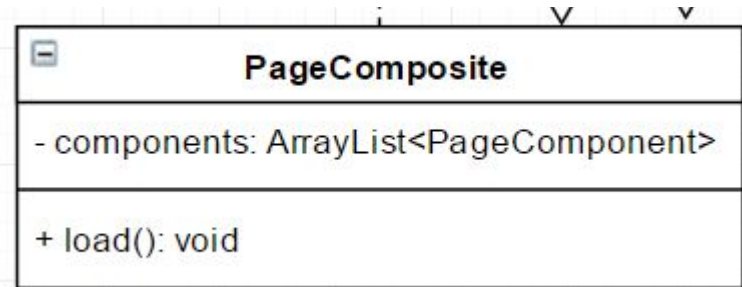
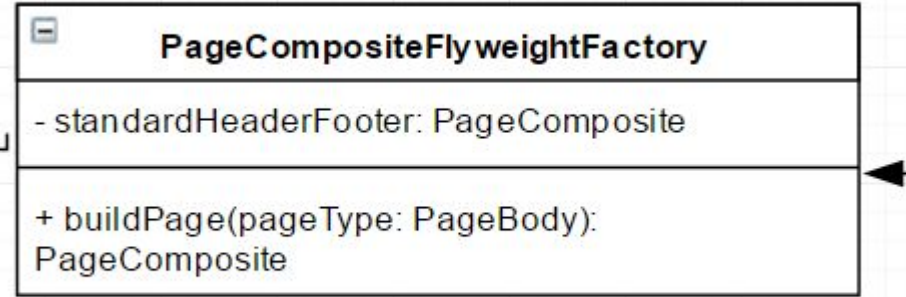
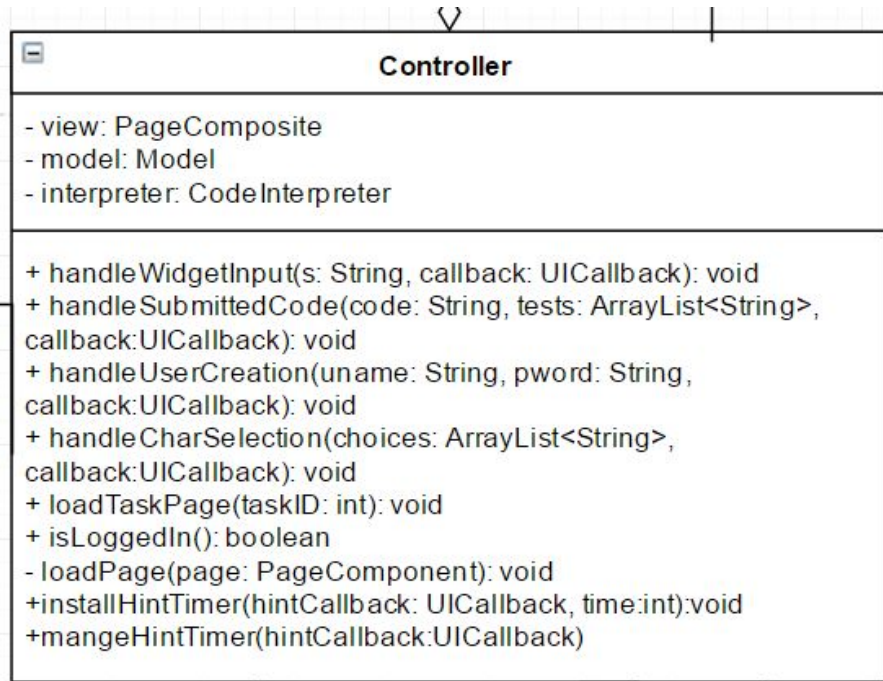


# Page Composite Flyweight Factory

- Every page has same header and footer
- Flyweight caches objects
  - Lower storage cost
  - Efficient
- Factory defers selection of which page to subclasses



# Flyweight Factory



# Link to Video

<https://www.youtube.com/watch?v=MWB8yJMAXb0>