

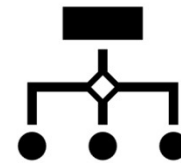
CS-499 Capstone Code Review

Matt Jackson



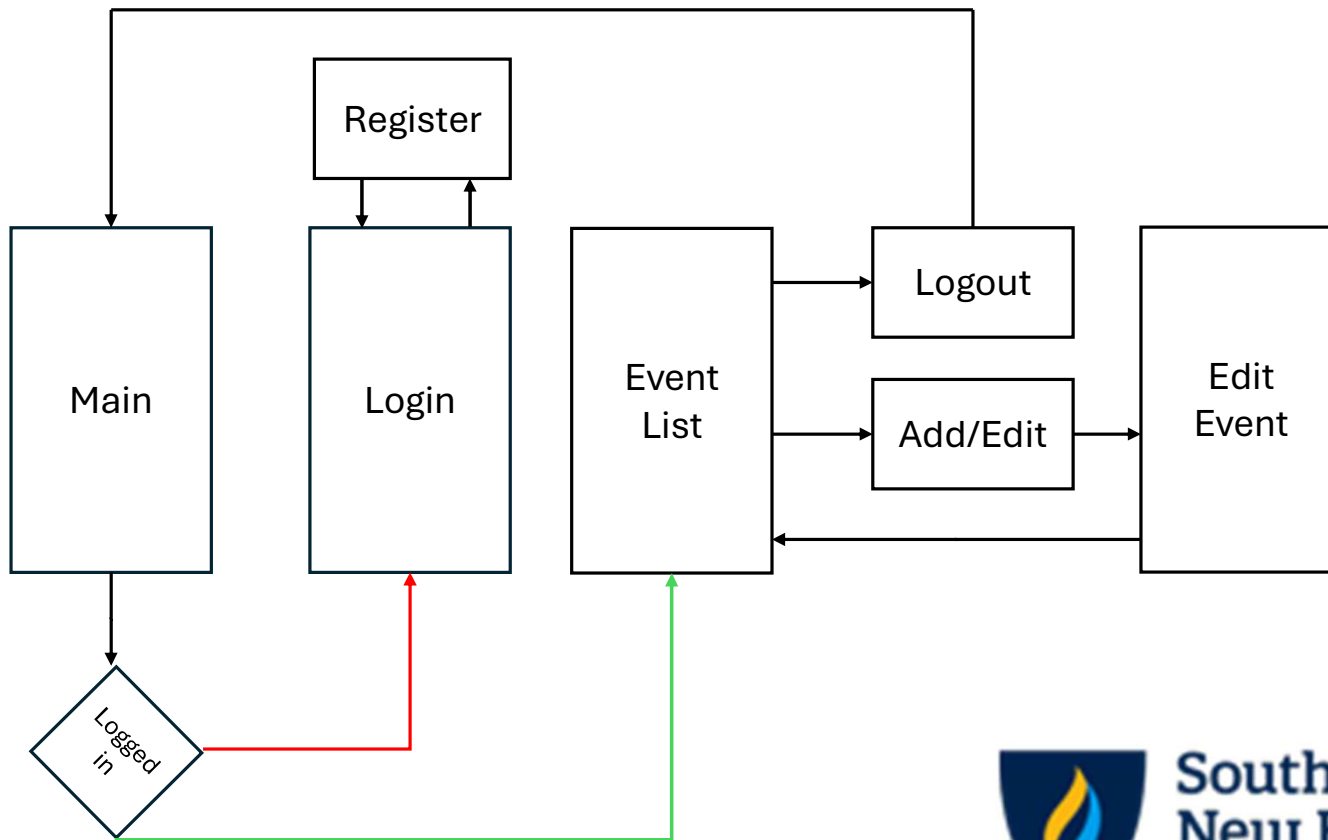
Agenda

- **Structure**
- **Documentation**
- **Variables**
- **Arithmetic Operations**
- **Loops and Branches**
- **Defensive Programming**



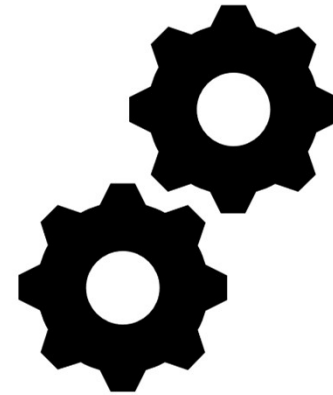
Southern
New Hampshire
University

Structure



Functionality

- **Permissions**
- **Alarm Receiver**
- **DB Helper**
- **Event**
- **User**
- **EventsViewAdapter**
- **Receiver**
- **SendMessage**



Southern
New Hampshire
University

Documentation



Southern
New Hampshire
University

[This Photo](#) by Unknown Author is licensed under [CC BY-NC](#)

Variables

$$f(x) \in O(g(n)) \Rightarrow \lim_{x \rightarrow \infty} \frac{f(x)}{g(x)} = \text{const}$$

$$g(x) \in O(h(n)) \Rightarrow \lim_{x \rightarrow \infty} \frac{g(x)}{h(x)} = \text{const}$$

$$\lim_{x \rightarrow \infty} \frac{f(x)}{h(x)} = \lim_{x \rightarrow \infty} \frac{f(x)}{g(x)} \times \frac{g(x)}{h(x)} = \lim_{x \rightarrow \infty} \frac{f(x)}{g(x)} \times \lim_{x \rightarrow \infty} \frac{g(x)}{h(x)} = \text{const} * \text{const} = \text{const}$$

$$\lim_{x \rightarrow \infty} \frac{f(x)}{h(x)} = \text{const} \Rightarrow f(x) \in O(h(n))$$



Loops and Branches



Southern
New Hampshire
University

Defensive Programming



Southern
New Hampshire
University