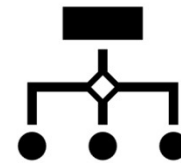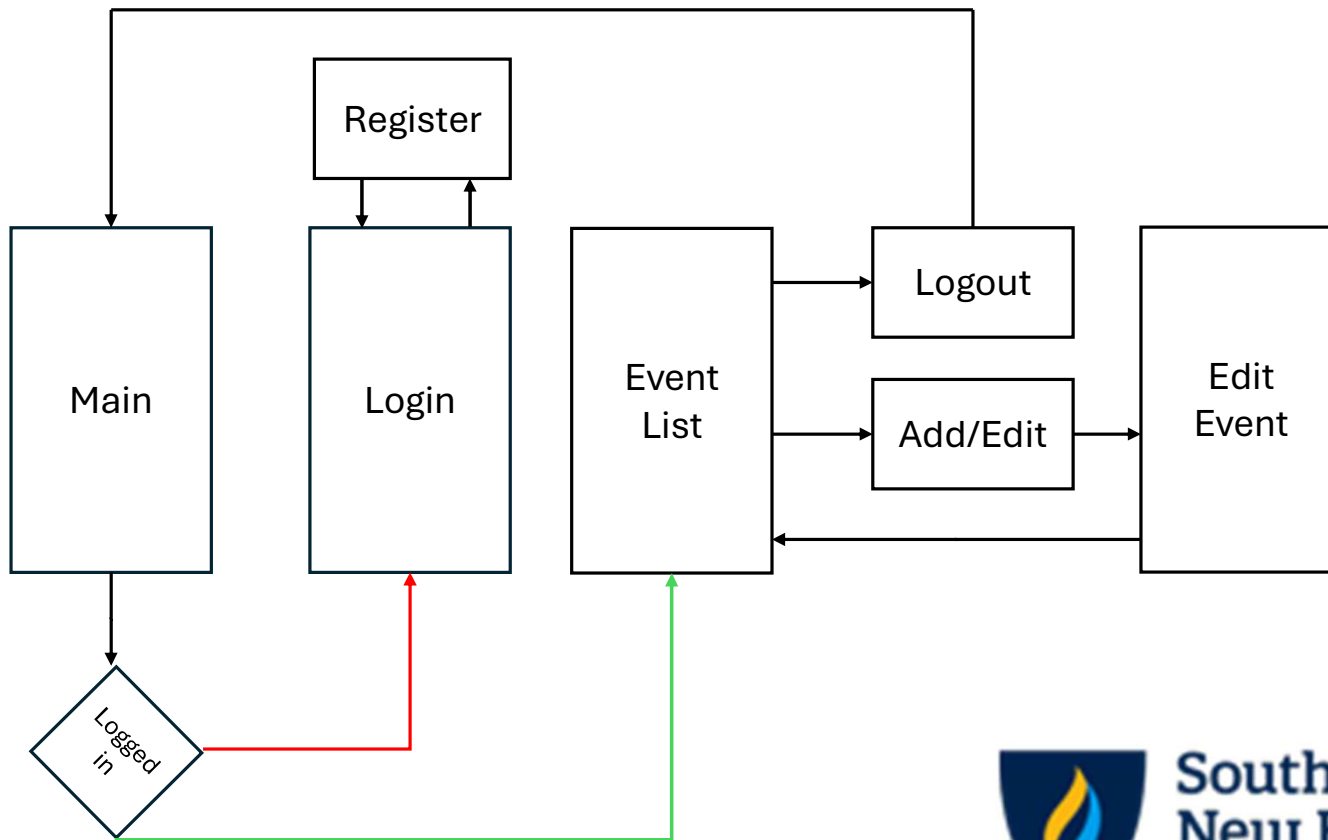# CS-499 Capstone
Code Review

Matt Jackson

Agenda

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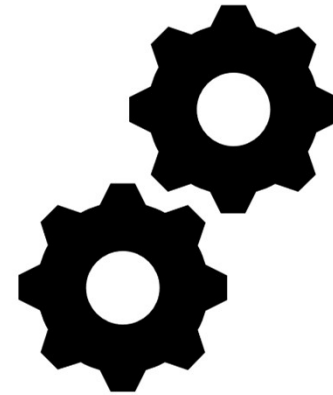- **Defensive Programming**

Structure

Functionality

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

Documentation

Variables

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

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

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

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

Southern
New Hampshire
University

Loops and Branches

Defensive Programming