

# Professional Development for Non-Profit Financial Software

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By David Parks

# Agenda

- Introduction
- What is Compassion?
- Professional Development
- The Create Subscription Project
- Agile
- Testing
- Test Driven Development
- Pair Programming
- Methodologies in this Project

# Introduction

- Me! (David Parks)
- What I do
- This Project



# Compassion

- What is Compassion?
  - Founded in 1952
  - Everett Swanson
- What does it do?
  - Release Children from Poverty
  - Share Jesus
- How?
  - FCPs
  - Support Donations
- Where?
  - 25 countries
  - 4 Continents

# Compassion: Our Technology Train

- SalesForce
- Netsuite
- Cloud Infrastructure

# Professional Development

- Teams
- Business Added Value Work
- Managed
- Standards
  - Quality Assurance
  - Documentation

# Create Subscription Project

- Goal - Enable the functionality of Netsuite
- How is this accomplished?
- Technologies used
  - Typescript
  - GIT
  - NPM
  - Mocha
  - VS code
  - Netsuite
  - Postman
  - DBeaver
- Demo

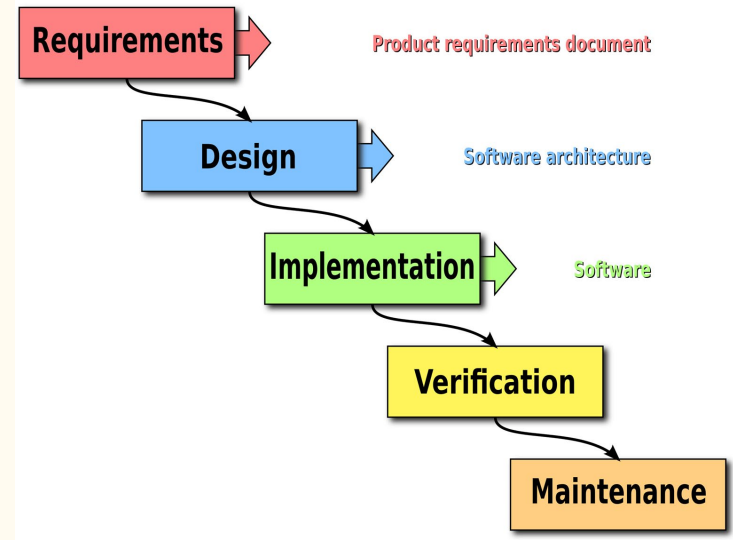
# Agile

- Key Principles
  - Commitment
  - Less wasted time (no long meetings)
  - Iterative
- Sprints
- Planning
  - Stories
  - Points
- Develop
- Retro
- Repeat



# Waterfall

- Key Principles
- Advantages
- Disadvantages



# Testing

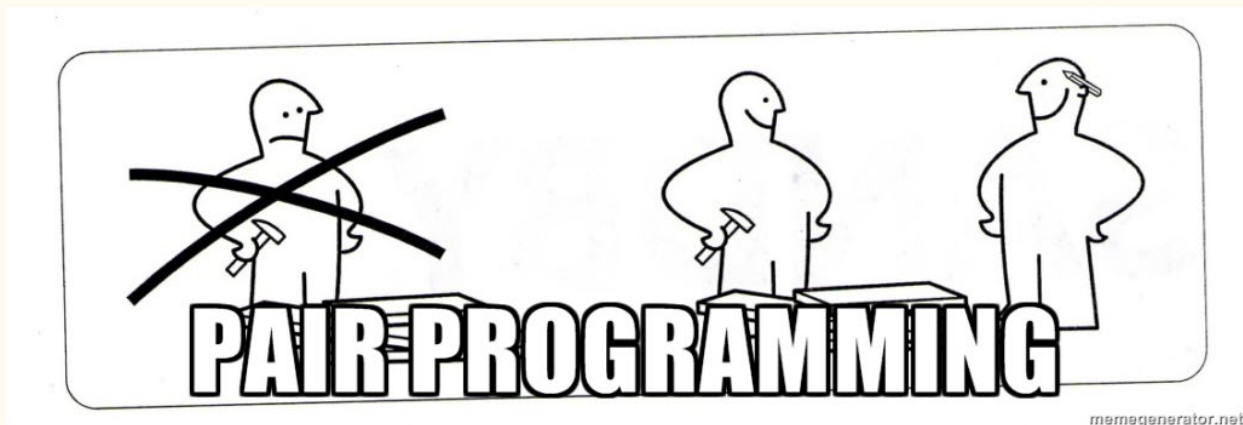
- Unit Tests
  - Assertions
  - Example
- Integration Tests
- Sandbox Environments

# Test Driven Development (TDD)

- Process
  - Write a failing test
  - Write code to make it pass
  - Refactor code
  - Repeat
- Pros
- Cons

# Pair Programming

- How?
  - Driver
  - Navigator
- Why?
- Important Effects



# Methodologies and Processes in this Project

## USED

- Waterfall
- Testing
- TDD

## NOT USED

- Agile
- Paired Programming