Confessions of a Test Driven Developer-holic

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THANKS TO ALL OUR SPONSORS!

































Who am I?

- Carlus R. Henry Sr.
- 5'4"



Who am I?

- Carlus R. Henry Sr.
- 5'4" okay, okay....5'2"
- Husband
- Father of 6
- Consultant 12 years
- Manager at KPMG (3 weeks)



Overview

- My Test Driven Development Journey
- "Moment of Clarity"
- Better Way

What is Test Driven Development?

XEL GREEN EFACTOR

Life without TDD



Life with TDD







Moment of Clarity

Moment of Clarity

They are rare. Nevertheless, everybody has them. Those unanticipated seconds in time when the whirlwind of life ceases and a virgin oasis of awareness suddenly opens the mind to a thought or a vision that resonates beyond that moment, even when the moment goes away...

Christopher Kennedy Lawford

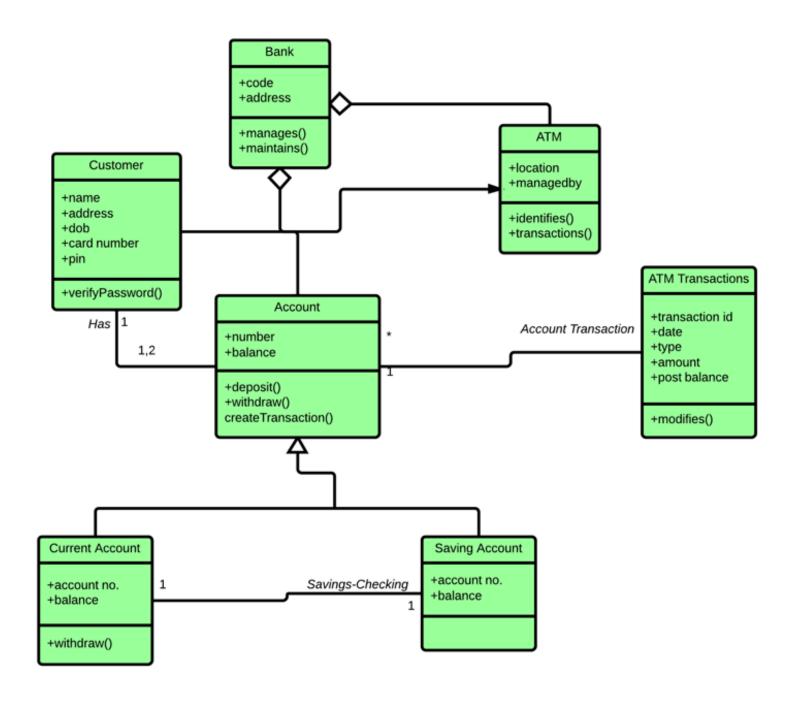
"Unit Tests Suck"

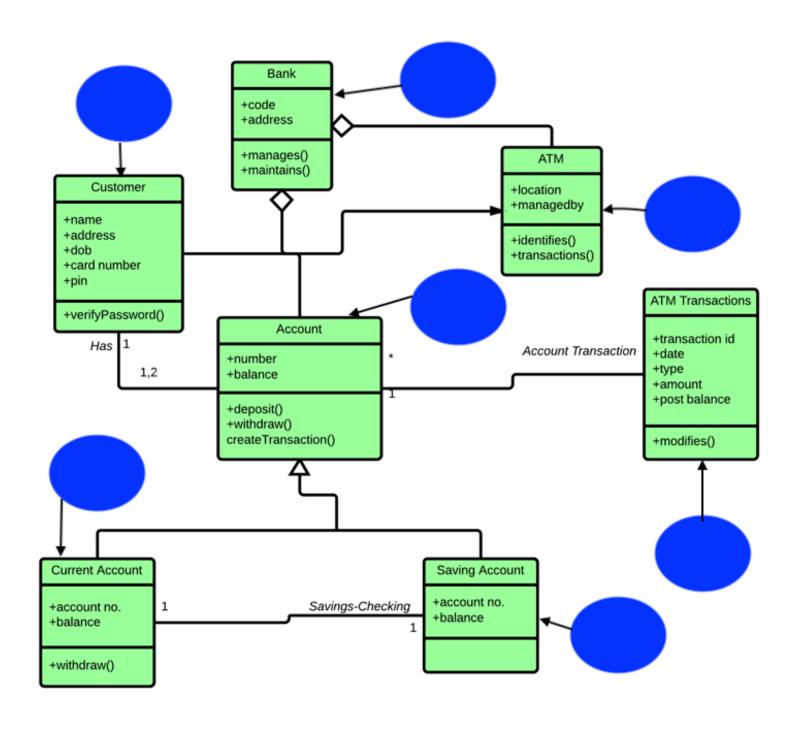


Pitfalls of TDD / Unit Tests

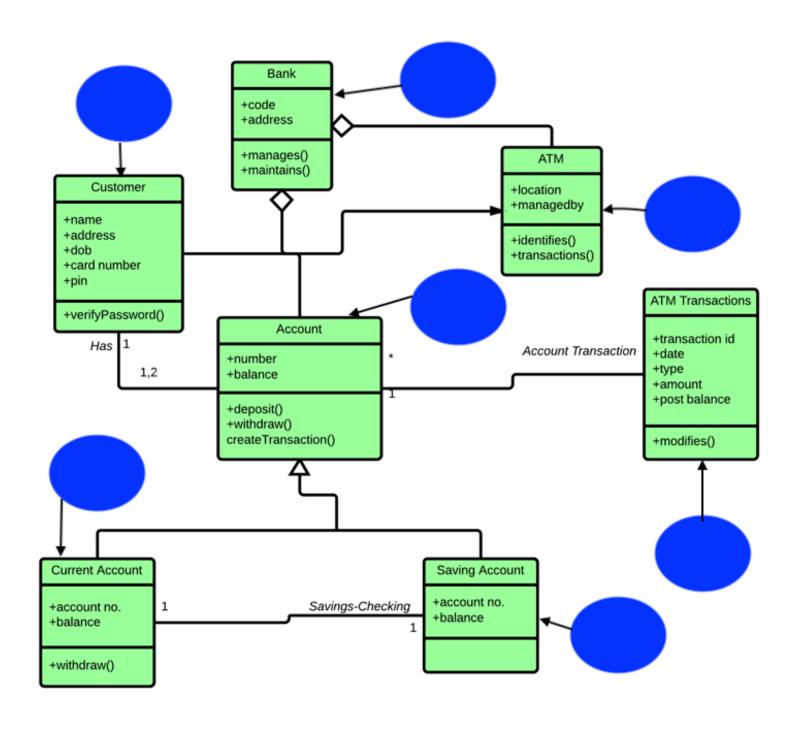
- Don't Prove your System Works
- Discourage refactoring
- Mocking is a Horrible Idea

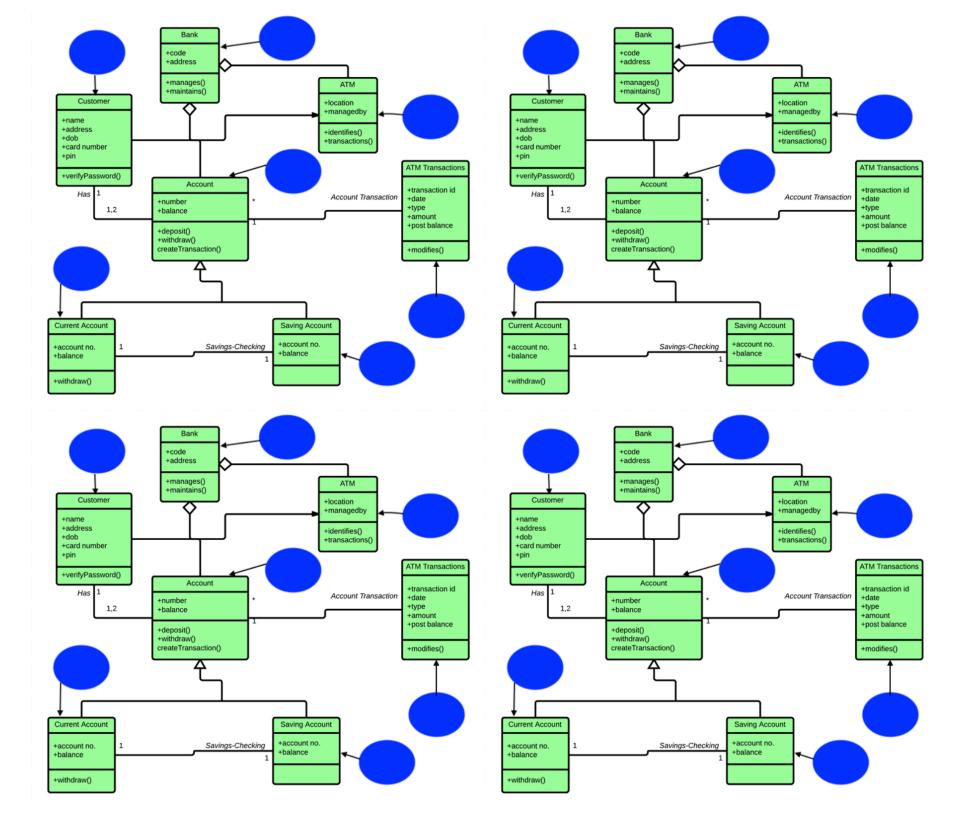
Don't Prove your System Works



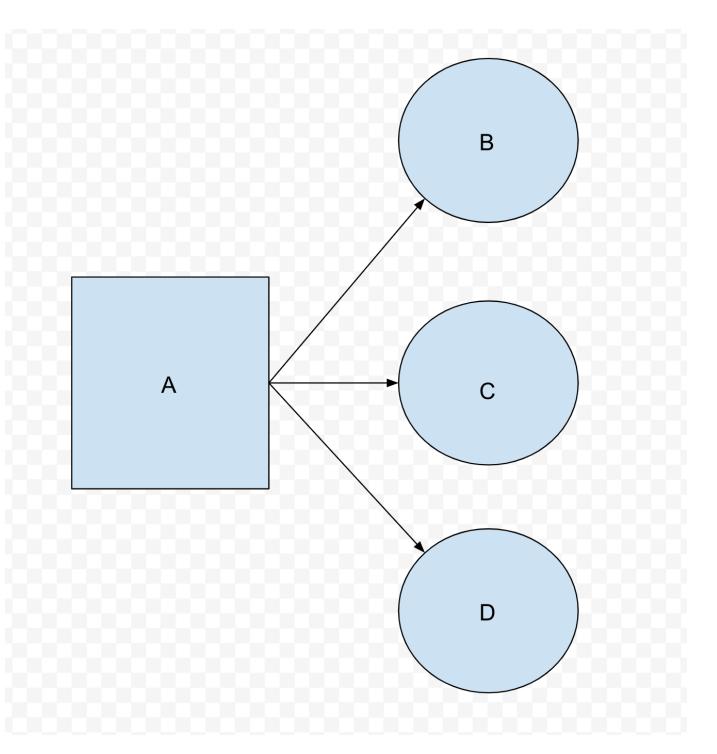


Discourage Refactoring





Mocking is Horrible





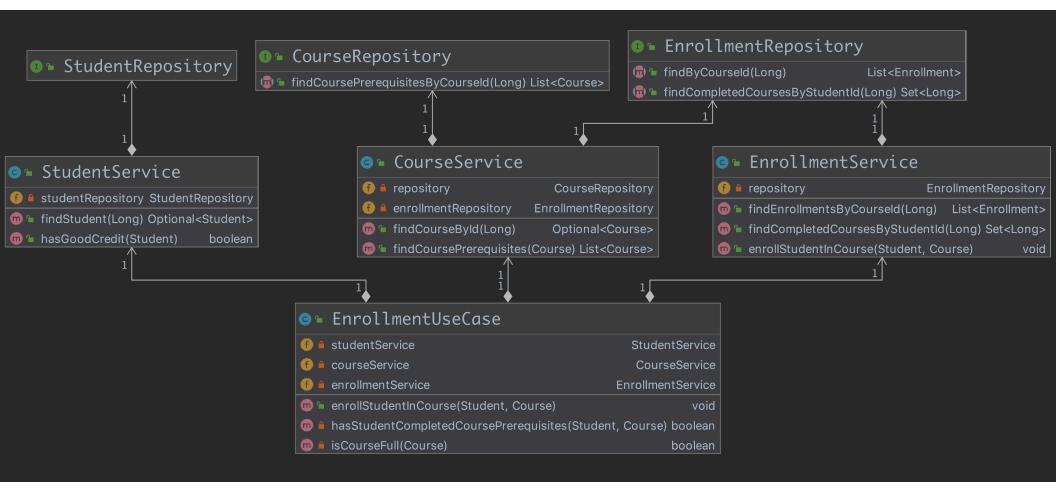
The Better Way

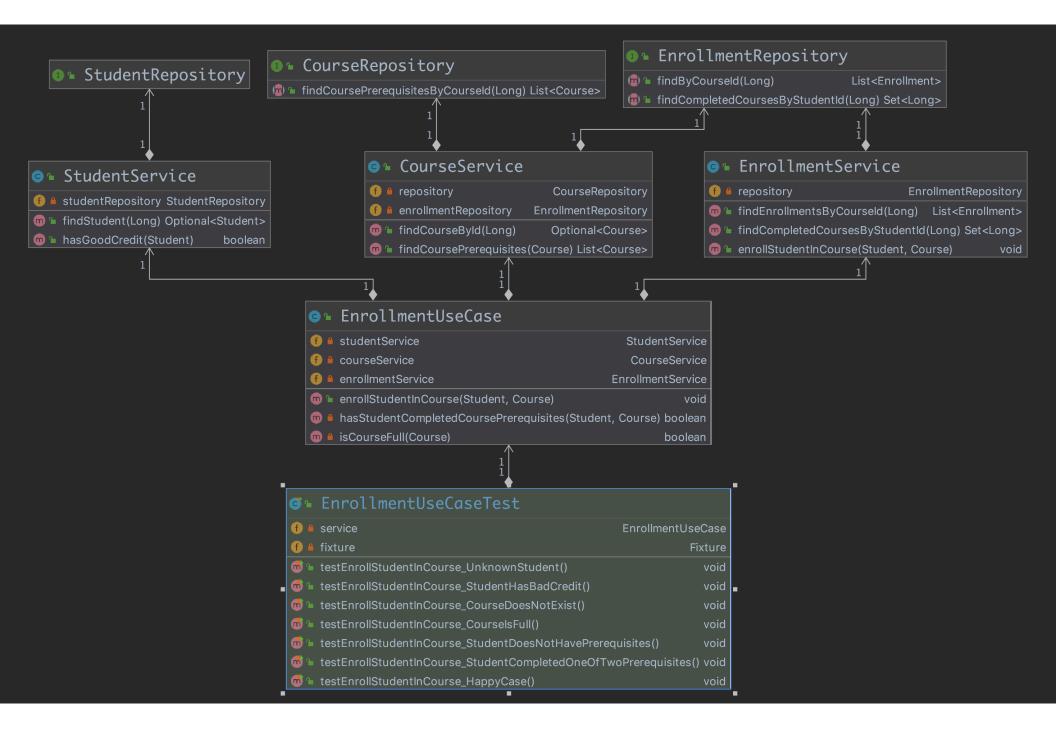
- Automated Tests that Test the Entire System
- Does not get in the way of Refactoring
- Tests should not be complex easily understood

Better Way Example

https://github.com/chenry/studentenrollment

```
create table student (
    ID BIGINT PRIMARY KEY,
    FIRST_NAME VARCHAR2.
    LAST_NAME VARCHAR2.
    CREDIT_RATING INT
);
create table course (
    ID BIGINT PRIMARY KEY,
    COURSE_NAME VARCHAR2,
    DESCRIPTION VARCHAR2.
    CLASS_SIZE_LIMIT INT
1);
create table course_prerequisite (
    ID BIGINT PRIMARY KEY,
    COURSE_ID BIGINT,
    PREREO_COURSE_ID BIGINT,
    FOREIGN KEY (COURSE_ID) REFERENCES COURSE(ID),
    FOREIGN KEY (PREREQ_COURSE_ID) REFERENCES COURSE(ID)
1);
create sequence enrollment_seq start with 1 increment by 1;
CREATE TABLE ENROLLMENT (
    ID BIGINT PRIMARY KEY,
    STUDENT_ID BIGINT,
    COURSE_ID BIGINT,
    IS_COMPLETED BOOLEAN,
    FOREIGN KEY (STUDENT_ID) REFERENCES STUDENT(ID),
    FOREIGN KEY (COURSE_ID) REFERENCES COURSE(ID)
1);
```





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