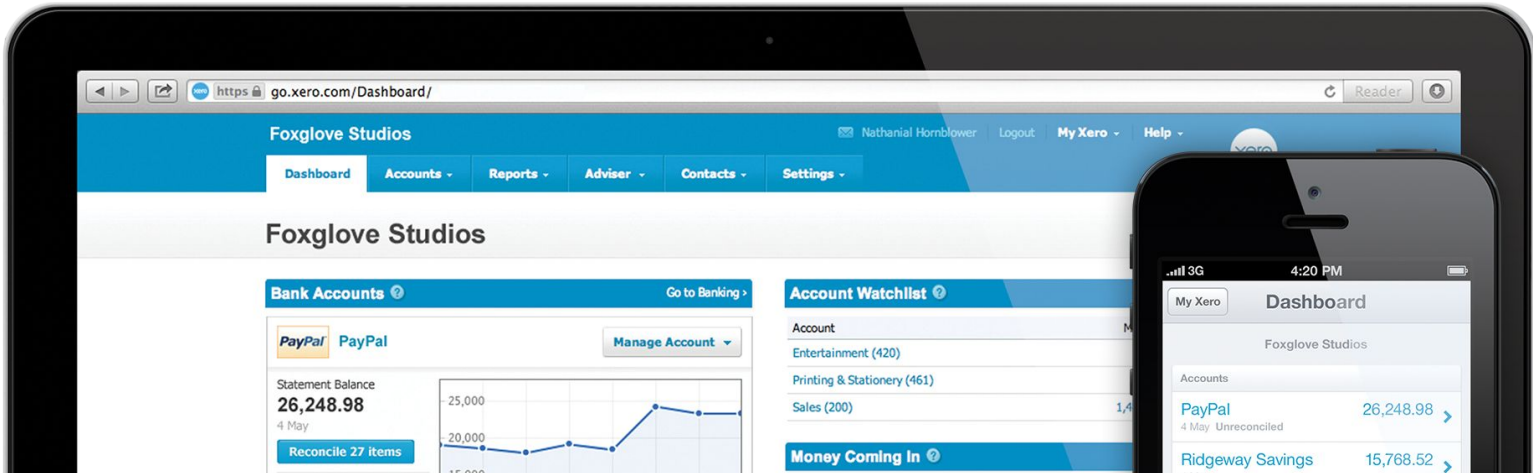


# Xero Women in Tech Workshop



Beautiful accounting software

# Introductions



# Purpose

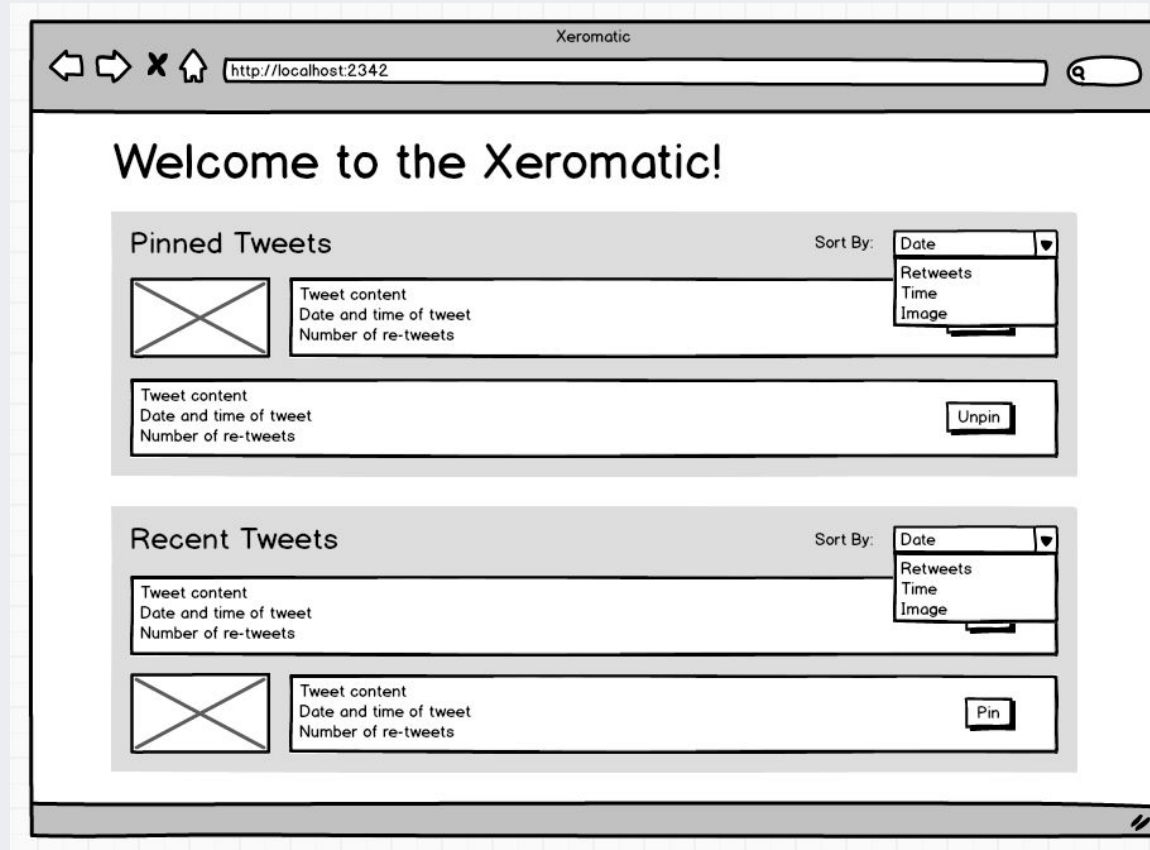
To teach young women technical skills that software companies rely on but often aren't fully taught at university, in order to give them a headstart on applying for graduate roles.

# Graduate Programme

[xero.com/graduate](https://xero.com/graduate)

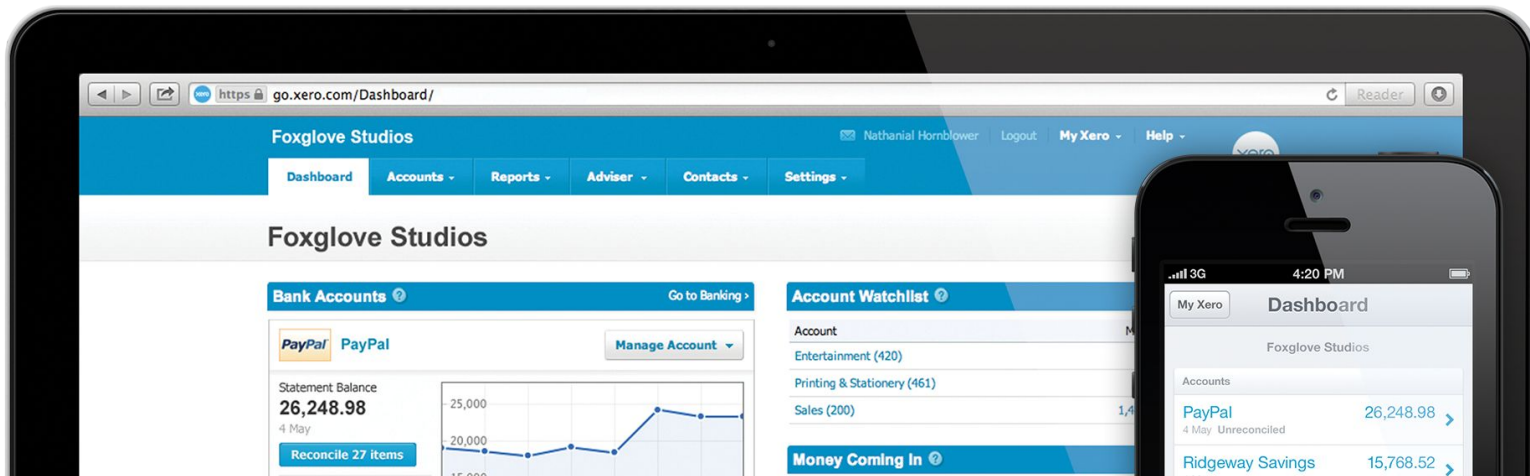


# Project



# Setup

Github. Visual Studio.



# Github

- Download Git, Bash/Sourcetree
- Create a fork of the Xeromatic project - <https://github.com/beerecca/Xeromatic>
- Clone your fork of the project



# Visual Studio

- Build project (installs Nuget packages)
- Deploy database
- Connect to database
- Default to use chrome
- Run project
- Welcome to Xeromatic!

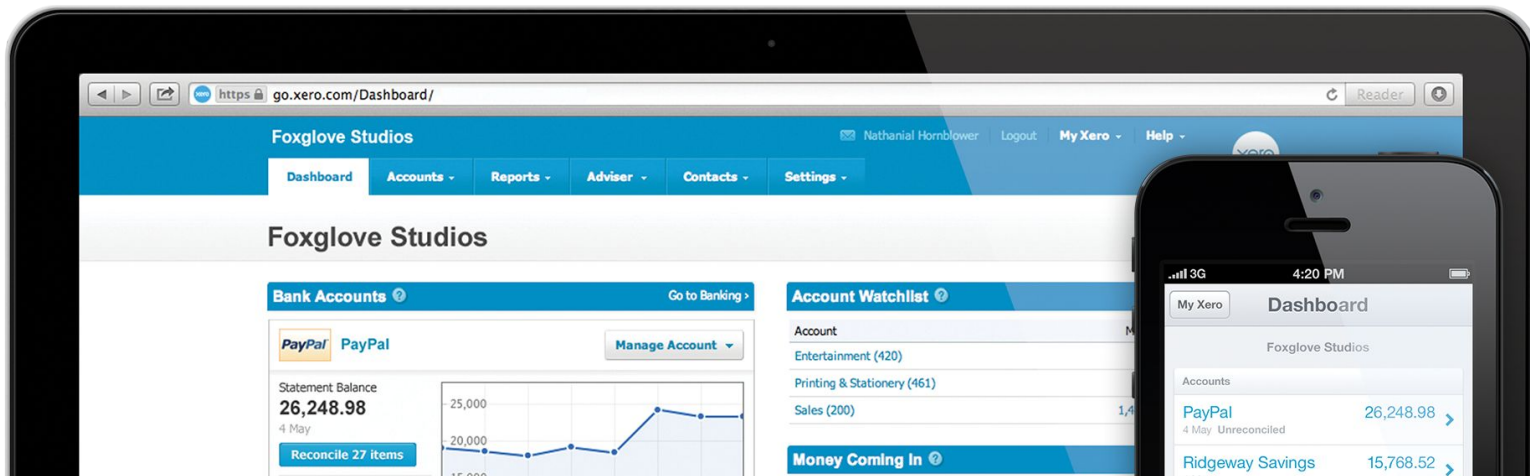


# Walkthrough

- Database
- Models
- Services
- Controllers
- Views
- Content
- Tests

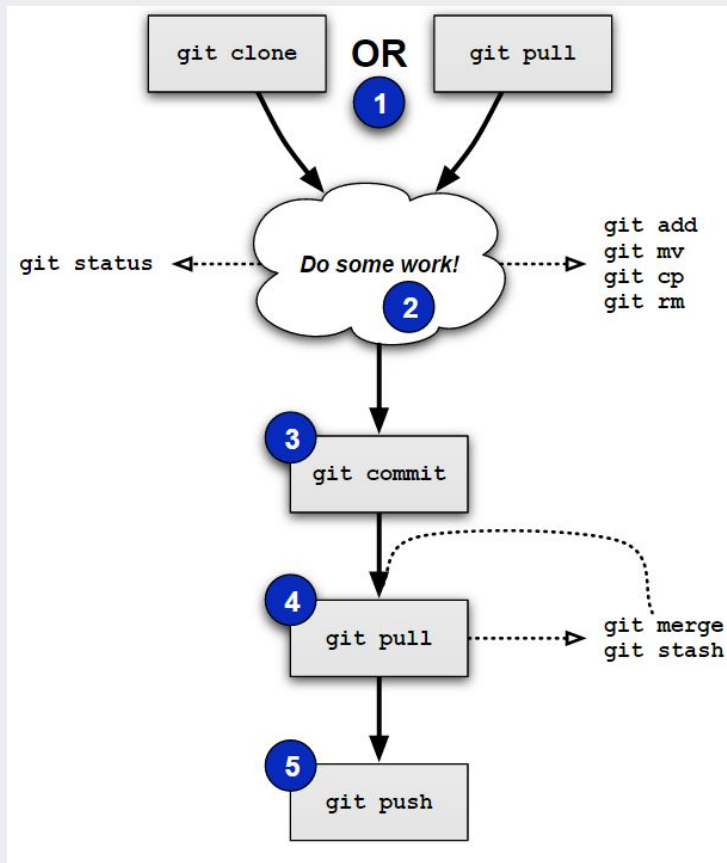
# Task One

Swap the database for the API. Twitter authentication (apps.twitter.com). Number of tweets and author.



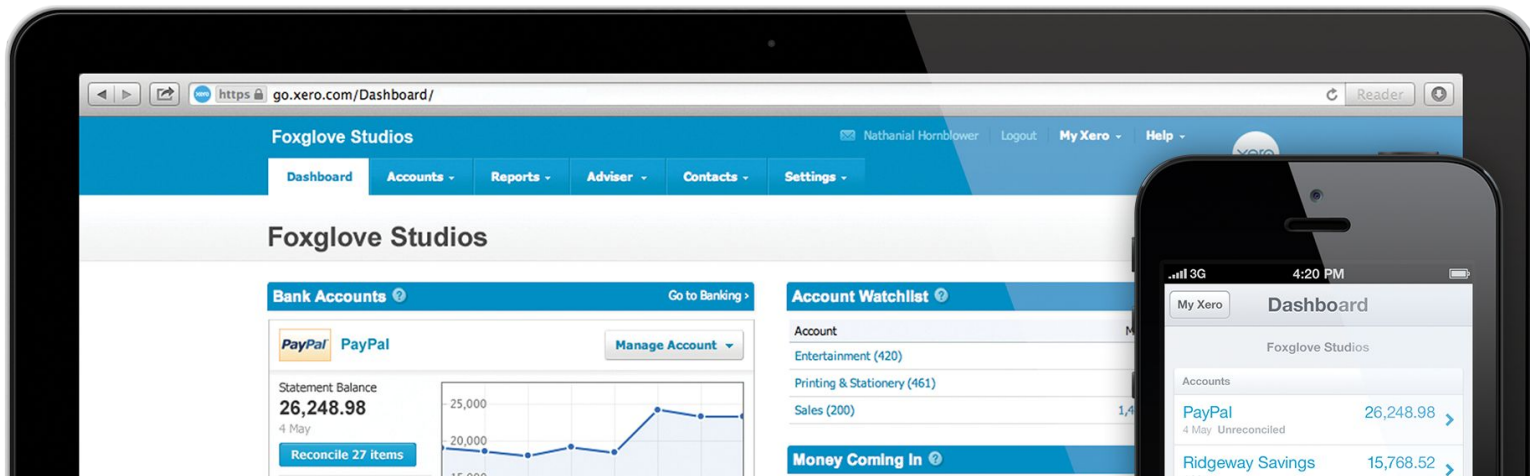
# Source Control

- Fork
- Clone
- Stage
- Commit
- Push
- Pull
- Pull Request
- Merge



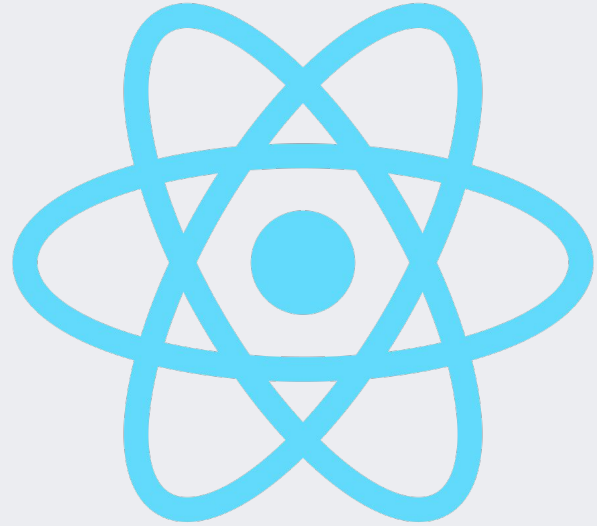
# Task Two

Show tweets from the API and the database



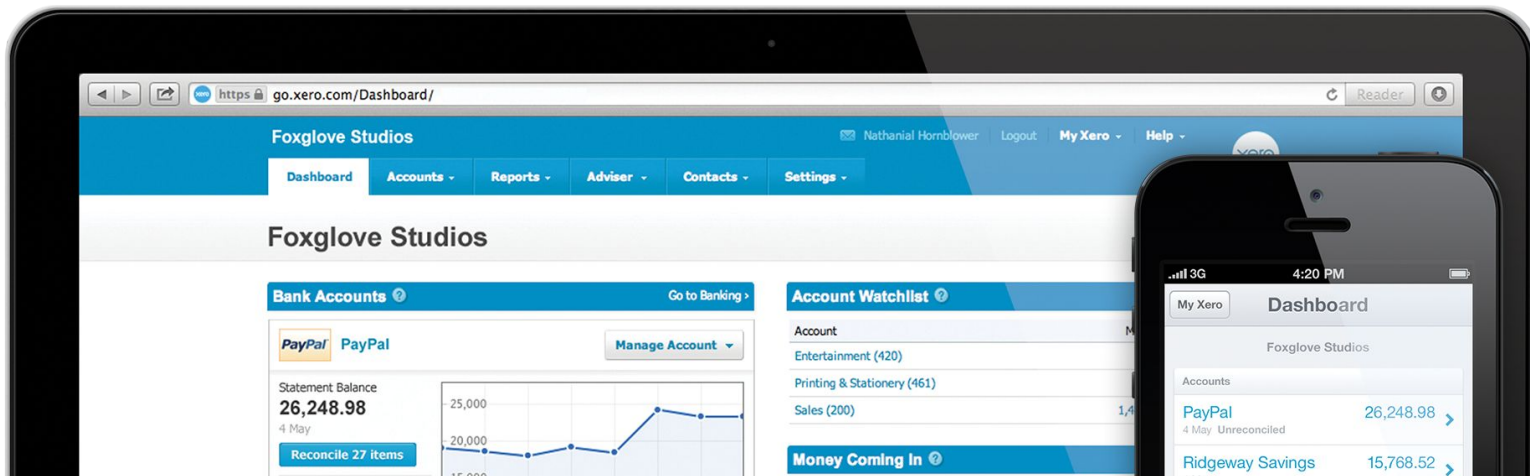
# Frontend

- React
  - className
  - Parent div
  - Props vs state/smart vs dumb
- Fetch and promises
- Bootstrap



# Task Three

React and Bootstrap Save button

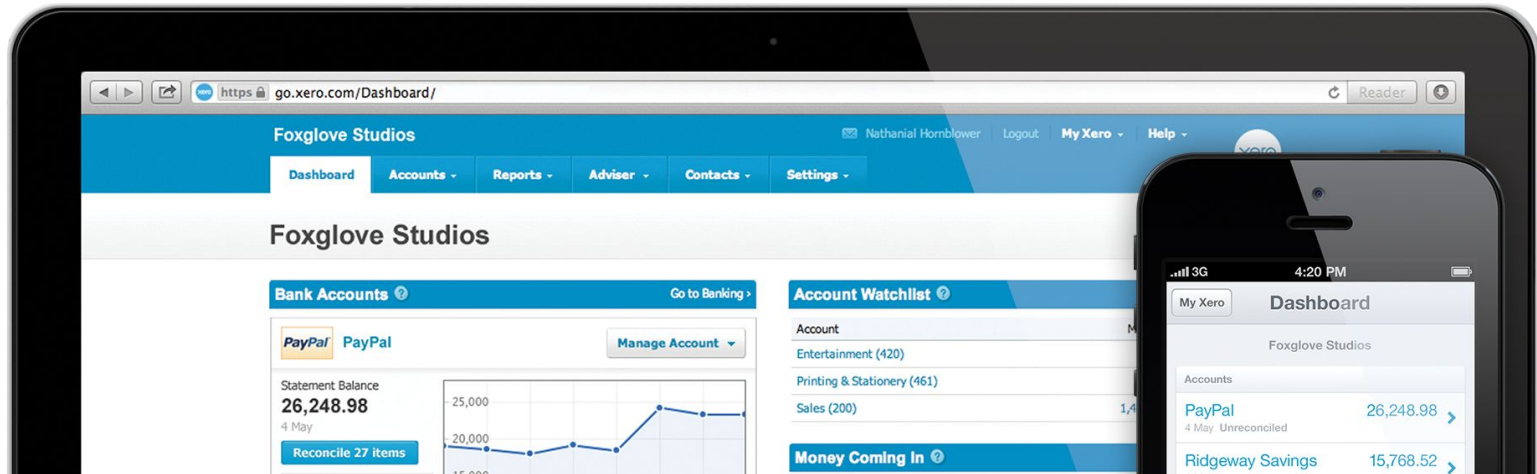


# ORM's and SSDT

- Object Relational Mapping
  - Layer between C# and DB
  - Dapper is a micro-ORM
- SQL Server Data Tools
  - Integrated representation of a DB within Visual Studio

# Task Four

Save button connect to database



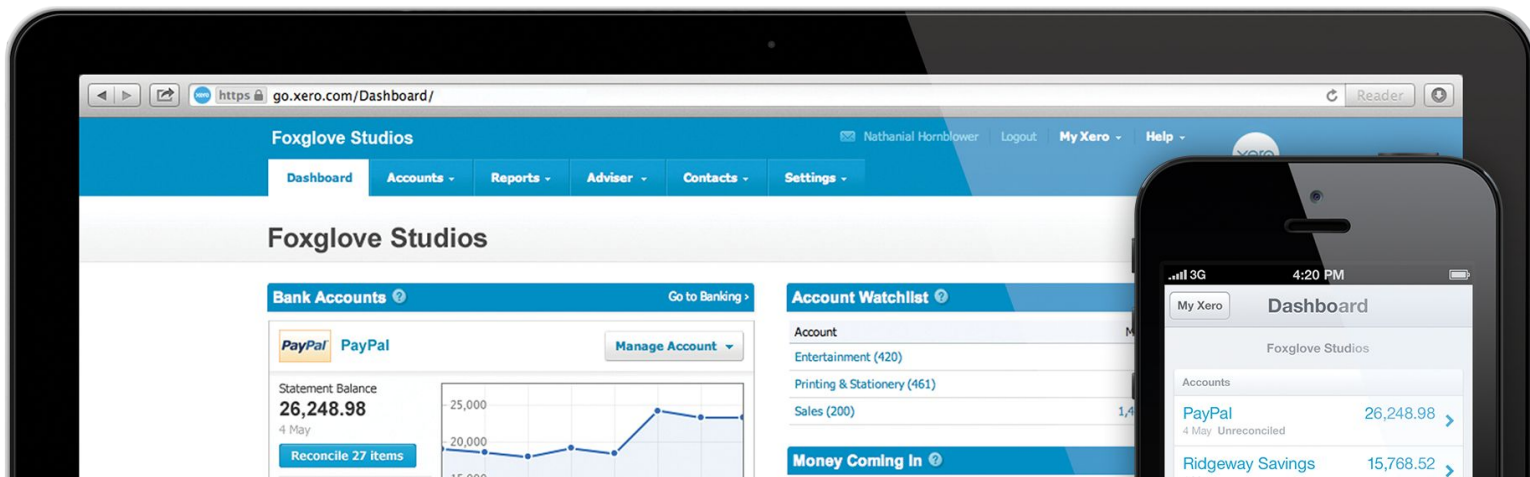


# Debugging

- Visual Studio
- Chrome DevTools

# Task Five

Add more tweet information

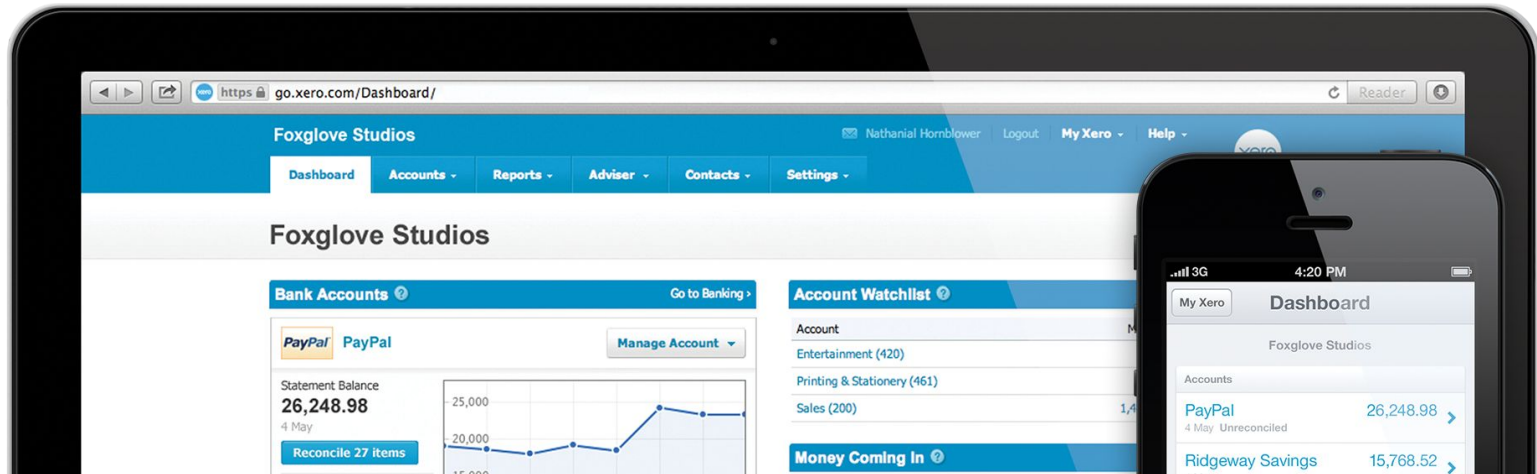


# Unit Tests

- xUnit
- Compare to other types of tests
  - Integration
  - Performance
  - Regression
  - User Interface
- TDD (Test Driven Development)

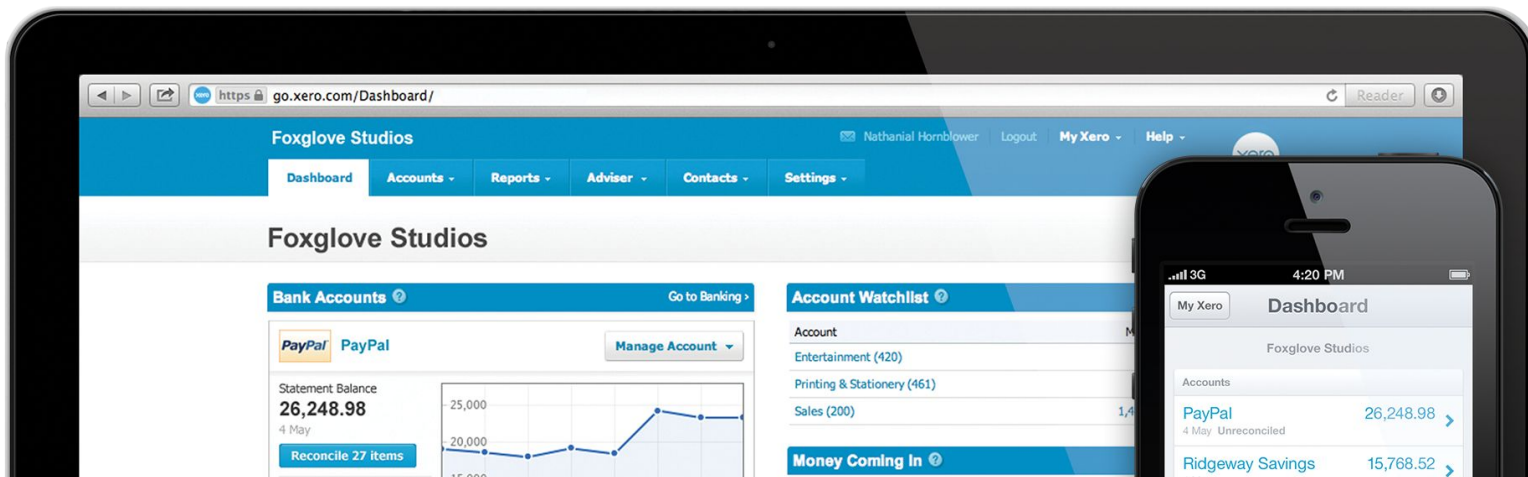
# Task Six

Check that there are 10 tweets returned from api



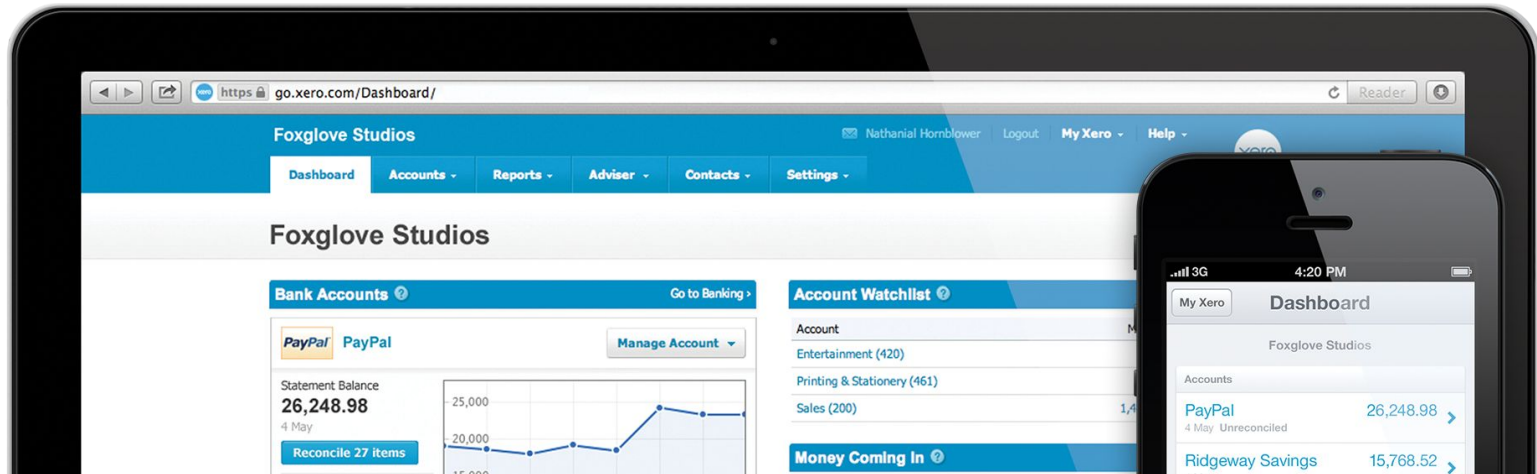
# Task Seven

Unpin tweets



# Task Eight

Dropdown to sort tweets

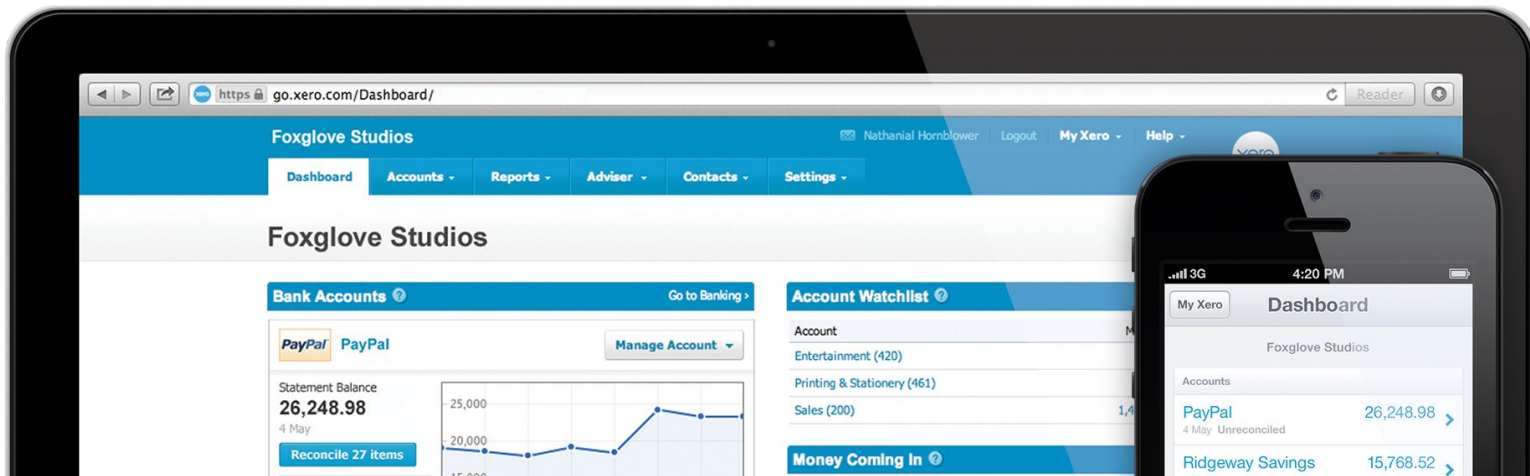


# Pull Requests

- Propose a change a particular branch
- Could be one or more commits
- Communicate what you've done, and the effects
- Code review from 1 or more other developers
- Ensures there is a traceable record of your change
- Let's make one!

# Extras for Experts

- Allow user to enter in a twitter username to get those tweets
- Remove any pinned tweets from the Recent Tweets section
- Handle API loading with a gif
- Automatically pin any tweets that have been liked in Twitter
- Deploy to Azure





# Thank you!



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# Tea time!

# We'll be back at:



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# Lunch time!

# We'll be back at:



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