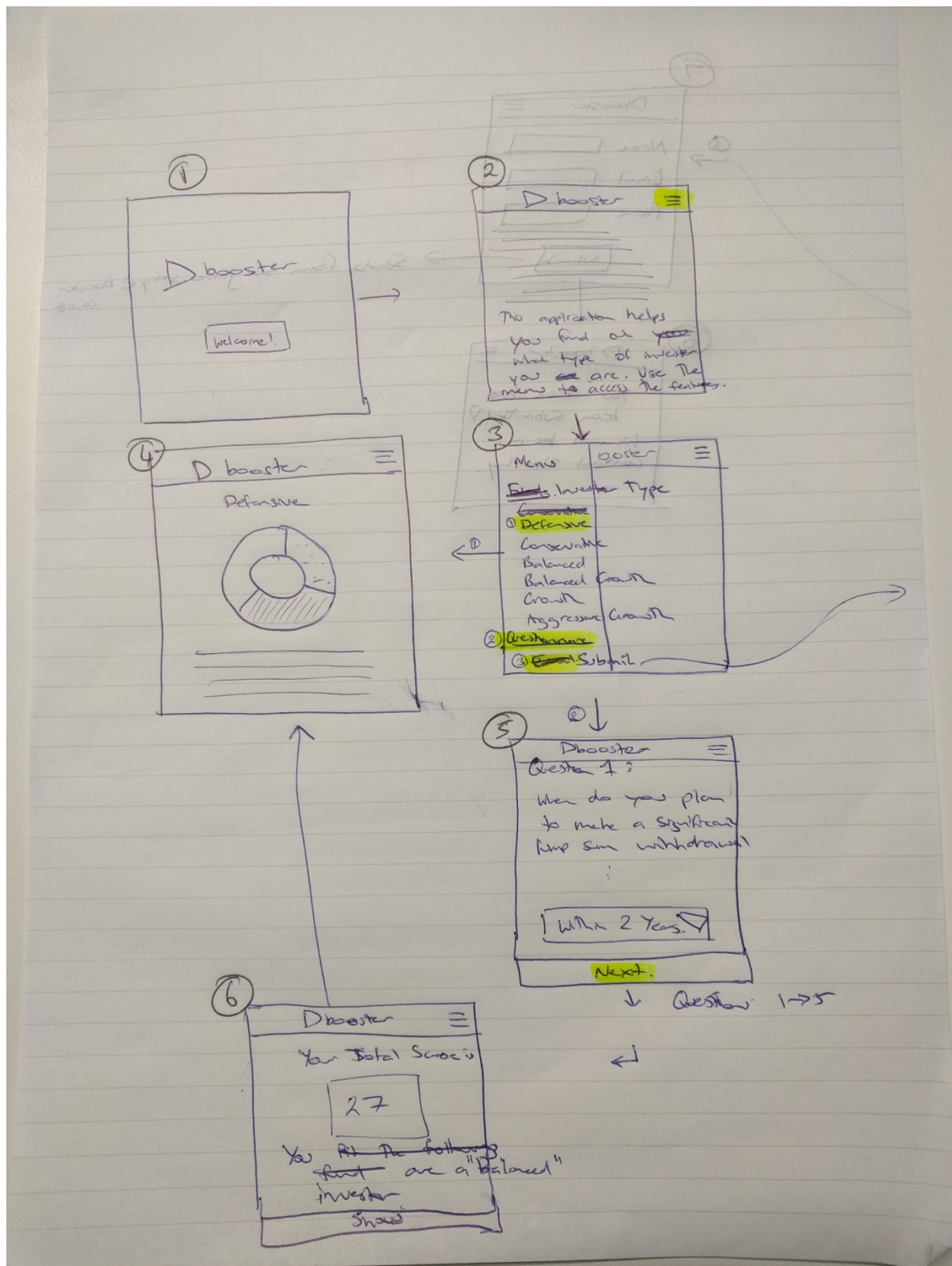# Android/iOS Developer Test

Objective:

To develop an application for Android (Java) **or** iOS (Swift) that allows an app user to:

- Investigate some of the Booster Kiwisaver Investment Funds in an interesting and interactive way
- Complete the Booster Kiwisaver risk questionnaire to work out what type of investor they are
- Submit the questionnaire result, including their contact details, to a given email address
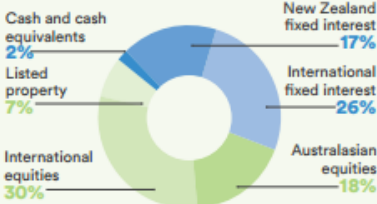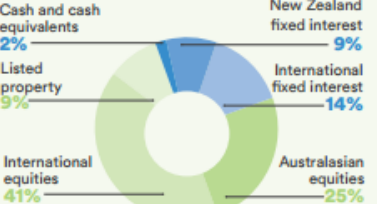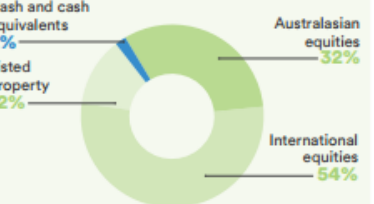
The goal of this test is to show off what you know and how you approach the craft of software development. We want to see your best software development skills and use of Agile development techniques.

Wireframes:

Dbooster

Name
Email
Phone

Submit → Sends form to james.stay@booster.co.nz

D booster
Your score has been submitted! We will be in contact shortly.

Screens:

1) First page to be displayed has the Booster logo and a welcome button – clicking the 'Welcome!' button takes you to the main screen (2) with a menu button and some text describing how to use the app.

2) A main screen with some text (see wireframe) explaining what the application is about and how to access the menu

3) Pulling out the menu shows:
    a. Investor Types. See this document/the notes at the end of this document:
        i. http://www.booster.co.nz/media/113310/what-type-of-investor-are-you-booster-risk-profiler_web-ks-docs.pdf
        ii. The Investor Types shown should be Defensive, Conservative, Balanced, Balanced Growth, Growth and Aggressive Growth
        iii. To simplify the options link 1 investor type to 1 fund – see the table in the notes below.
    b. Questionnaire
        i. With a 'Submit' sub menu button that only becomes available once the questionnaire has been completed. Once the questionnaire has been completed it should show 'Submitted' instead of 'Submit'

4) Clicking on an Investor Type should hide the menu and show a chart with the breakdown of the multi-sector fund and a text description.

Capital Guaranteed Fund	Default Saver Fund	Moderate Fund
Investment objective and strategy • The fund's objective is to provide relatively consistent returns, subject to a capital guarantee (see below). • It aims to achieve returns (after fees but before tax) of at least 1.5% per year above inflation over any two year period. • Generally, there may be small movements up and down in the value of the fund. • The fund invests mainly in income assets, and includes only a small amount of growth assets.	**Investment objective and strategy** • The fund's objective is to provide relatively consistent but modest returns, with some capital gains over the long-term. • It aims to achieve returns (after fees but before tax) of at least 2.0% per year above inflation over any three year period. • Generally, there will be small movements up and down in the value of the fund, reflecting its temporary holding nature. • The fund invests mainly in income assets, but includes some growth assets.	**Investment objective and strategy** • The fund's objective is to provide relatively consistent returns, with some capital gains over the long-term. • It aims to achieve returns (after fees but before tax) of at least 2.5% per year above inflation over any four year period. • Generally, there will be some movements up and down in the value of the fund. • The fund invests mainly in income assets, but includes some growth assets.
Target investment mix Cash and cash equivalents 60% New Zealand fixed interest 15% International fixed interest 10% Australasian equities 5% International equities 10% Growth Assets 15% Income Assets 85%	**Target investment mix** Cash and cash equivalents 20% New Zealand fixed interest 35% International fixed interest 25% Australasian equities 7% International equities 11% Listed property 2% Growth Assets 20% Income Assets 80%	**Target investment mix** Cash and cash equivalents 15% New Zealand fixed interest 30% International fixed interest 20% Australasian equities 12% International equities 19% Listed property 4% Growth Assets 35% Income Assets 65%

Balanced Fund	Balanced Growth Fund	High Growth Fund
Investment objective and strategy • The fund's objective is to provide an enhanced return over the long-term through capital gains. • It aims to achieve returns (after fees but before tax) of at least 3% per year above inflation over any five year period. • There will be some movements up and down in the value of the fund. • The fund invests in a more balanced mix of income assets and growth assets.	**Investment objective and strategy** • The fund's objective is to provide long-term capital gains but to partially offset short-term movements up and down with some income assets. • It aims to achieve returns (after fees but before tax) of at least 4% per year above inflation over any seven year period. • There will be larger movements up and down in the value of the fund compared to the Balanced Fund. • The fund invests mainly in growth assets, but includes some income assets.	**Investment objective and strategy** • The fund's objective is to maximise the potential for capital gains over the long-term. • It aims to achieve returns (after fees but before tax) of at least 5% per year above inflation over any ten year period. • There will be significant movements up and down in the value of the fund. • The fund invests predominantly in growth assets, with little or no allocation to income assets.
Target investment mix Cash and cash equivalents 2% Listed property 7% International equities 30% New Zealand fixed interest 17% International fixed interest 26% Australasian equities 18% Growth Assets 55% Income Assets 45%	**Target investment mix** Cash and cash equivalents 2% Listed property 9% International equities 41% New Zealand fixed interest 9% International fixed interest 14% Australasian equities 25% Growth Assets 75% Income Assets 25%	**Target investment mix** Cash and cash equivalents 2% Listed property 12% Australasian equities 32% International equities 54% Growth Assets 98% Income Assets 2%

5) Clicking 'Questionnaire' should start the questionnaire found here:
   a. http://www.booster.co.nz/media/113310/what-type-of-investor-are-you-booster-risk-profiler_web-ks-docs.pdf
   b. It should ask each of the questions and then calculate the 'score'
      i. To simplify the options link 1 investor type to 1 fund – see the table in the notes below.
6) Once the questionnaire is completed the user should be shown their score and the type of investor type they are. When they click show it should take them to show the fund chart (5)
7) Now the user can submit the application. They should be asked their name, phone number and email. This should be validated and then submitted, along with the score, via email to me@example.com
8) The user should be shown a message to show that the application has been submitted which they can then clear and go back to (2)

Deliverable:

Please submit all the source code and any other assets or documentation you think are applicable to completing the test to a high standard. We should be able to compile and run the application with minimal setup required.

Other Notes:

- Use the same look and feel as the main Booster website (http://booster.co.nz) i.e. use the same colours and fonts etc.
- The mapping for Investor Type -> Fund are shown below:

Questionnaire Score	Investor Type	Fund
5 to 12	Defensive	Capital Guaranteed Fund
13 to 20	Conservative	Default Saver Fund
21 to 29	Balanced	Balanced Fund
30 to 37	Balanced Growth	Balanced Growth Fund
38 to 44	Growth	High Growth Fund
45 to 50	Aggressive Growth	High Growth Fund* * Don't worry that this is the same as the previous line

- Don't worry if you can't complete the entire test – just complete as much as you can and what you think shows off what you can do. This assignment has been designed so that both intermediate and senior developers will hopefully find it challenging.