

# Dandelion Program Overview

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## Dandelion Work Experience Program – Week 1

In the first week of the Program the work experience candidates will be learning about the Dandelion Program and DXC Technology, learning the Python programming language, familiarising themselves with Dandy, the Aldebaran NAO H25 robot, learning about Scrum and how it will be applied for this project, and planning how to approach the first stages of development.



### Work Experience Program – Scrum Basics

Scrum is an agile software development framework that is used to organise work during the work experience program. To begin, the Product Owner produces a wishlist of features and activities that they would like to see from the project, referred to as the Product Backlog. Scrum breaks periods of work into 'sprints'; one week blocks of time during which work is done on a number of items from the Product Backlog selected by the Development Team, with this subset referred to as the Sprint Backlog.

In the context of the work experience program, this means that the Product Owner, in this case the local school staff being represented by a DXC staff member, produces a collection of activities and exercises that the school would like Dandy to be able to perform, and uses these to populate the Product Backlog.

From there, the development team ask questions of the Product Owner to clarify requirements and ensure each feature is developed to fit what they are expecting, and then begin to work on the individual tasks that they determine will be necessary to complete these backlog items. All of this is facilitated by the Scrum Master, who keeps these meetings and discussions on track and helps guide the team through this process, as well as ensuring that the team have a daily stand up meeting (Daily Scrum) where progress, intentions, and impediments are discussed. Finally, the Technical Lead, who provides technical support, assistance, and can be consulted for their experience working with Dandy and Python, is available to the Development Team throughout the project.



The Development Team having a discussion with the Scrum Master and Product Owner

## Work Experience Program – Project Work

With the end of the first week approaching, work experience program candidates finalise details on the items that they want to deliver for the first week.

Over the course of the Program, we have seen fantastic teamwork, thoughtful discussion, rigorous planning, and excellent demonstration of technical skills from Dandelion work experience program candidates.



Excellent teamwork between members



Collaboration and group brainstorming



Finalising details

## Work Experience Program – Week 2

During the second week, the Dandelion work experience program candidates will begin development work on their project, as well as having the opportunity to attend 'Day in the Life' sessions with various subject matter experts from among DXC staff. At the end of the week, the candidates will hold a Sprint Review; a Scrum event where the key stakeholders come together to examine what has been achieved over the last week, and an opportunity to get feedback on how they are progressing.



The Development Team hard at work

### Work Experience Program – 'Day in the Life'

Throughout the second week, the Dandelion work experience program candidates are given the opportunity to hear from subject matter experts from within DXC. These 'Day in the Life' sessions focus around what kinds of roles and responsibilities exist in an organisation such as DXC, what their day to day job entails, as well as where they sit within the software development life-cycle and how they interact with the other parts.

The aim of these sessions is to give the candidates an idea of what kinds of roles there are within the information technology industry; something that is often overlooked during university study. Over the course of the week, the students interact with Business Analysts, Architects, Developers, Testers, and other such roles. The candidates find these sessions to be extremely valuable experiences.



The Dandelion work experience program candidates learning about a day in the life of an automation tester

### Work Experience Program – Sprint Retrospective

One of the core concepts of agile project management is the ability to reflect on what you have done, to ensure that you are constantly refining and improving the way in which you work. As part of this, the Dandelion work experience program candidates hold a Scrum event known as a Sprint Retrospective.

This involves the team meeting and writing notes to prompt group discussion in three areas: what went well, what did not go so well, and improvements that can be made for the next sprint.

Experience has shown that some excellent thoughts, ideas, and suggestions are brought up, and the development team have a great time planning improvements for the rest of the project!



Suggestions being stuck to the board by the Development Team



Excellent thoughts, ideas, and suggestions are brought up



Planning improvements for the rest of the project

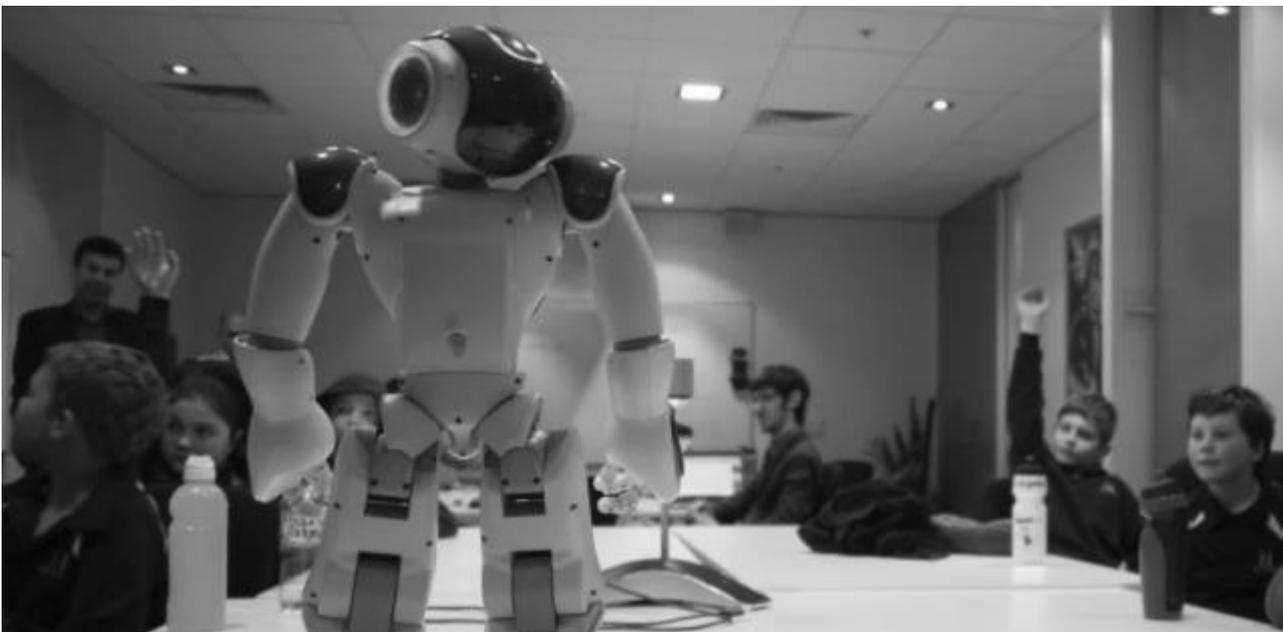
## Work Experience Program – School Visit

Local schools that will be using the applications developed during the Dandelion work experience program are given the opportunity to come on-site to meet Dandy and the Development Team!

The demonstrations given by the work experience candidates are extremely well received, with Dandy receiving some amazing responses from the children.



The Technical Lead and Development Team with a child from a local school



The children asking about Dandy's capabilities



More questions about Dandy



Everyone was blown away by the response Dandy received