Introduction
In Hong Kong, there are various rallies every year. Many of these rallies such as the Candlelight Vigil in memory of the 1989 6-4 Tiananmen Square Massacre are meaningful to Hong Kong people. Hence, there is a strong interest from the public in the attendance numbers at the rally. Usually, figures from the organizer of a rally and from the police official are totally different. Compared with the figure announced by the organizers, the official police figures are usually lower and sometimes the margin is quite large. The figure which is announced by the police official could be less than a half the figure announced by the organizer. One of the possible reasons is that the police official worried that the figures might stimulate the emotion of Hong Kong people out of the political faction. In order to generate a more precise figure, an Android app for population statistics at events/rallies is developed.

Aim
To develop an Android app for Hong Kong people that would give a more precise figure for the number of attendants at a rally or an event.

Objectives
Our objective is to design a tool which will accurately portray the attendance figures at rallies and events. These figures can then be used to better portray the actual turn out to these events. Our method will provide an open, trustworthy and accurate counting method. This will give more credibility to the attendance figures given by organizers. It may also provide the police with more accurate figures in order to plan crowd control.

Methodology

Design Phase

Approach of Data Collection
To collect the attendance figures, helpers would use the helper mode to record data. There are two ways to collect data. For type 1 attendants, they are required to use their Octopus card to tick attendance. By touching the NFC mobile, attendance is recorded. For type 2 attendants, helpers will help them to tick attendance by pressing “CountOne” button. Attendance is then recorded.

Notes
Type 1 attendant: Attendee who has Octopus card
Type 2 attendant: Attendee who has no Octopus card or who does not provide his Octopus card helpers. People who help to tick attendance in a rally/event.

Results