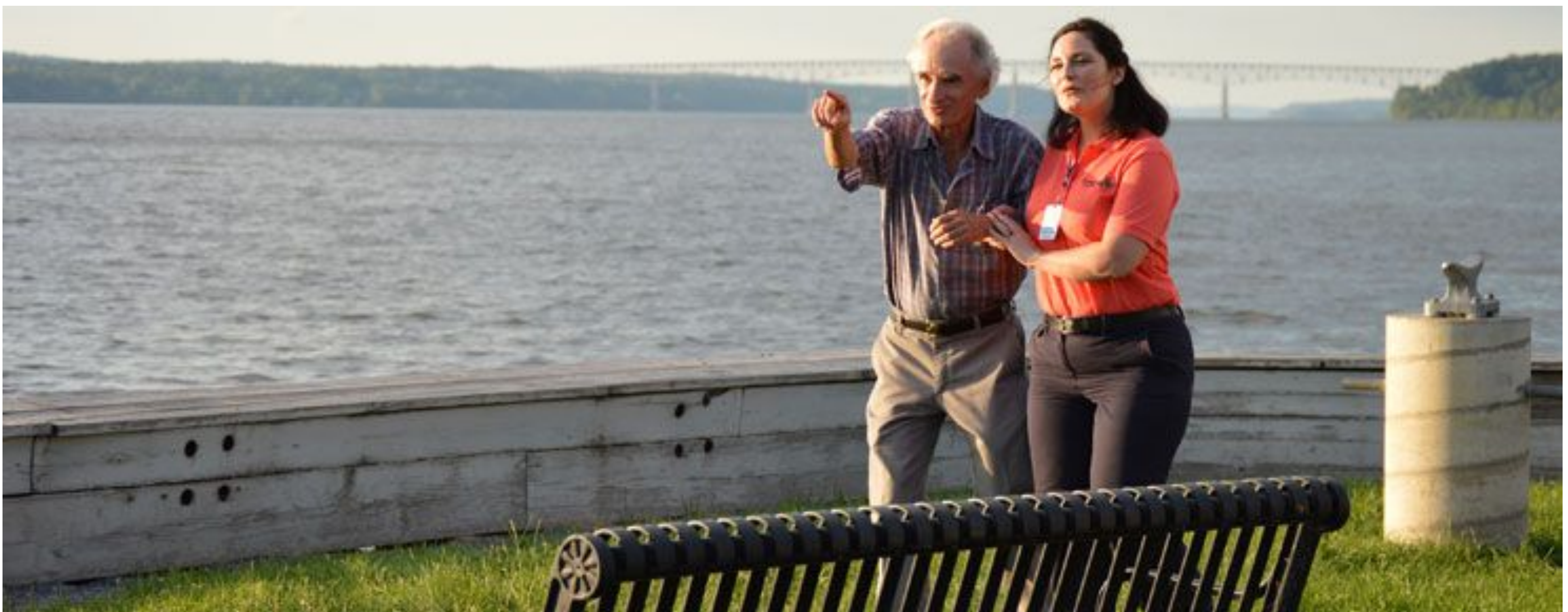**Student: 23 Lee Pui Wing Adeline, 24 Lee Pui Yan Beatrice**

Objective/Background/Motivation

- *Elderly people with eyesight problems/living alone may find it hard to look for directions when they go out*
- *The elderly may not have a helper/assistance/family member to care for them or guide them*
- *The elderly may get lost easily/can't find the directions*
- *Without visible road signs or any help, elderly people may find it hard to get to their destinations*
- *Makes the elderly's lives easier and allows them to find their way easily*
- *Preventing the elderly from getting lost and helping the elderly to find their way without others' assistance*

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Existing Solution

Object detection
- Recognizes different objects
- Applications: finding objects, detecting objects for the blind
- Limitations: cannot read information on objects and has a low accuracy because the object is not viewed from different viewpoints
OCR
- Recognizes the text on objects (both typed / handwritten words)
- Applications: written text – > scanned document
- Limitations: Can only recognize neat handwriting, limited to texts that have proper spacing

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Your Solution

- *Object identification tool + Optical character recognition*
- *360 degrees detailed+full scan of surroundings*
- *"Beeps" or notifies the user if any "wanted" objects/information are scanned*
- *Any road signs, bus stop stands, taxi stand signs or direction boards will be considered as "wanted objects"*
- *Elderly will be able to find directions or information needed with this tool*
- *Use of object recognition*

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Resources Needed

- *Camera*
- *Buzzer*
- *Light*