

# Red Cross Singapore

## Solution for Closest Available School



# PROBLEM

A solution in to find  
the closest school of a  
specified school.  
Based on the list of  
available schools.



# SOLUTION OVERVIEW

Creating a Graphical User Interface (GUI), in which anyone is able to easily use it to find the closest school based on the list of available schools.



# WHY GUI?

- Based on the research done, the solution was narrowed down to either a **web app** or a **GUI**.
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- After much deliberation, we found many disadvantages of a web app.
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- Such Disadvantages include:
  - More Complex to create.
  - Require a monthly fee to run a webpage.
  - Longer Development Time

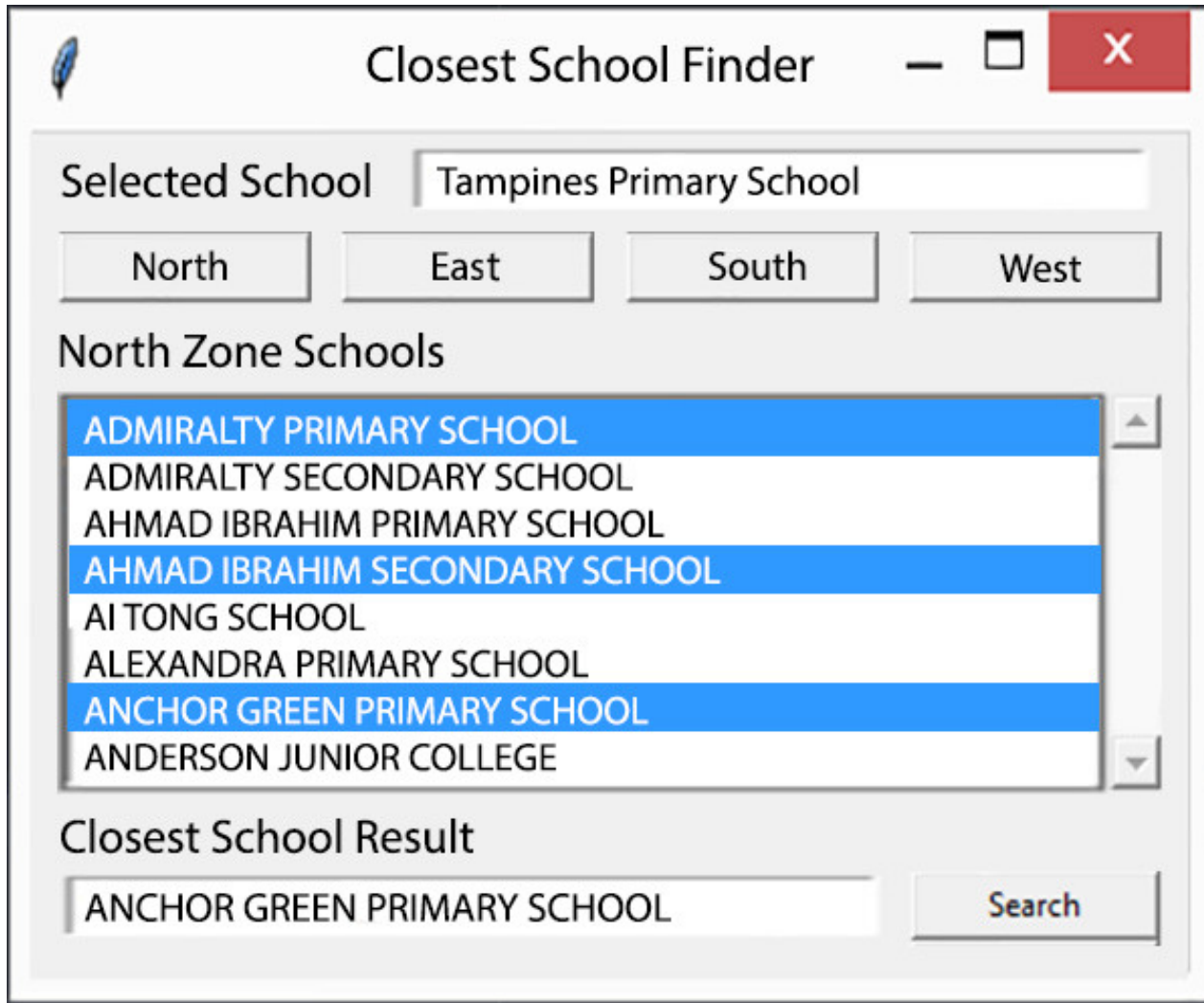




# Overview

**Closest Available School**

# 1. OVERALL LOOK



The image shows a software window titled "Closest School Finder". At the top, there is a "Selected School" dropdown menu currently set to "Tampines Primary School". Below this are four buttons labeled "North", "East", "South", and "West". The "North" button is selected, and the section below is titled "North Zone Schools". This section contains a list of schools: ADMIRALTY PRIMARY SCHOOL, ADMIRALTY SECONDARY SCHOOL, AHMAD IBRAHIM PRIMARY SCHOOL, AHMAD IBRAHIM SECONDARY SCHOOL, AI TONG SCHOOL, ALEXANDRA PRIMARY SCHOOL, ANCHOR GREEN PRIMARY SCHOOL, and ANDERSON JUNIOR COLLEGE. The "ANCHOR GREEN PRIMARY SCHOOL" entry is highlighted in blue. At the bottom, there is a "Closest School Result" section with a text box containing "ANCHOR GREEN PRIMARY SCHOOL" and a "Search" button.

Closest School Finder

Selected School: Tampines Primary School

North East South West

North Zone Schools

- ADMIRALTY PRIMARY SCHOOL
- ADMIRALTY SECONDARY SCHOOL
- AHMAD IBRAHIM PRIMARY SCHOOL
- ANCHOR GREEN PRIMARY SCHOOL
- AI TONG SCHOOL
- ALEXANDRA PRIMARY SCHOOL
- ANDERSON JUNIOR COLLEGE

Closest School Result

ANCHOR GREEN PRIMARY SCHOOL

Search

\* Image is for Illustration Purposes only, final product may look slightly different

## 2. HOW IT WORKS

1. Type in your selected school.

2. Select a zone, a list of schools in that zone will appear.

3. Select the available schools and press search to find the closest school.

The screenshot shows a window titled "Closest School Finder". At the top, there is a "Selected School" text box containing "Tampines Primary School". Below this are four buttons labeled "North", "East", "South", and "West". The "North" button is selected, and a list titled "North Zone Schools" is displayed below it. The list contains the following schools: ADMIRALTY PRIMARY SCHOOL, ADMIRALTY SECONDARY SCHOOL, AHMAD IBRAHIM PRIMARY SCHOOL, AHMAD IBRAHIM SECONDARY SCHOOL, AI TONG SCHOOL, ALEXANDRA PRIMARY SCHOOL, ANCHOR GREEN PRIMARY SCHOOL, and ANDERSON JUNIOR COLLEGE. The "ANCHOR GREEN PRIMARY SCHOOL" entry is highlighted in blue. Below the list is a section titled "Closest School Result" with a text box containing "ANCHOR GREEN PRIMARY SCHOOL" and a "Search" button.

Selected School
Tampines Primary School

Zone
North
East
South
West

North Zone Schools

ADMIRALTY PRIMARY SCHOOL
ADMIRALTY SECONDARY SCHOOL
AHMAD IBRAHIM PRIMARY SCHOOL
AHMAD IBRAHIM SECONDARY SCHOOL
AI TONG SCHOOL
ALEXANDRA PRIMARY SCHOOL
ANCHOR GREEN PRIMARY SCHOOL
ANDERSON JUNIOR COLLEGE

Closest School Result

ANCHOR GREEN PRIMARY SCHOOL
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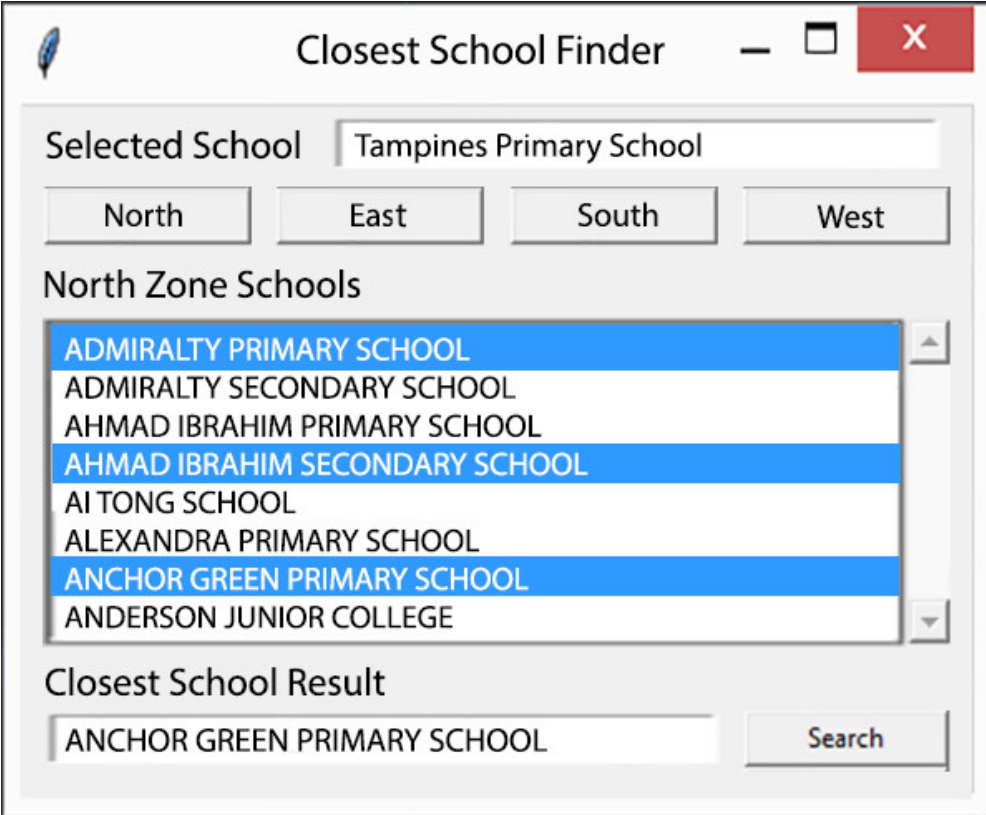
Search

# 3. EXAMPLE

1. For example, in the example given, the selected school is **"TAMPINES PRIMARY SCHOOL"**, and selected **"North Zone"**

2. A list of North Zone Schools appear, of which, **"ADMIRALTY PRIMARY SCHOOL, AHMAD IBRAHIM SECONDARY SCHOOL & ANCHOR GREEN PRIMARY SCHOOL"** were available.

3. The App then gives you back the closest school which is **"ANCHOR GREEN PRIMARY SCHOOL"**



The screenshot shows a window titled "Closest School Finder". At the top, there is a "Selected School" dropdown menu with "Tampines Primary School" selected. Below this are four buttons: "North", "East", "South", and "West". The "North" button is highlighted. Under the "North" button, there is a list titled "North Zone Schools". The list contains the following schools: ADMIRALTY PRIMARY SCHOOL, ADMIRALTY SECONDARY SCHOOL, AHMAD IBRAHIM PRIMARY SCHOOL, AHMAD IBRAHIM SECONDARY SCHOOL, AI TONG SCHOOL, ALEXANDRA PRIMARY SCHOOL, ANCHOR GREEN PRIMARY SCHOOL, and ANDERSON JUNIOR COLLEGE. The "ANCHOR GREEN PRIMARY SCHOOL" is highlighted in blue. At the bottom, there is a section titled "Closest School Result" with a text box containing "ANCHOR GREEN PRIMARY SCHOOL" and a "Search" button.

Selected School
Tampines Primary School

Zone
North

North Zone Schools
ADMIRALTY PRIMARY SCHOOL
ADMIRALTY SECONDARY SCHOOL
AHMAD IBRAHIM PRIMARY SCHOOL
AHMAD IBRAHIM SECONDARY SCHOOL
AI TONG SCHOOL
ALEXANDRA PRIMARY SCHOOL
ANCHOR GREEN PRIMARY SCHOOL
ANDERSON JUNIOR COLLEGE

Closest School Result
ANCHOR GREEN PRIMARY SCHOOL

Search

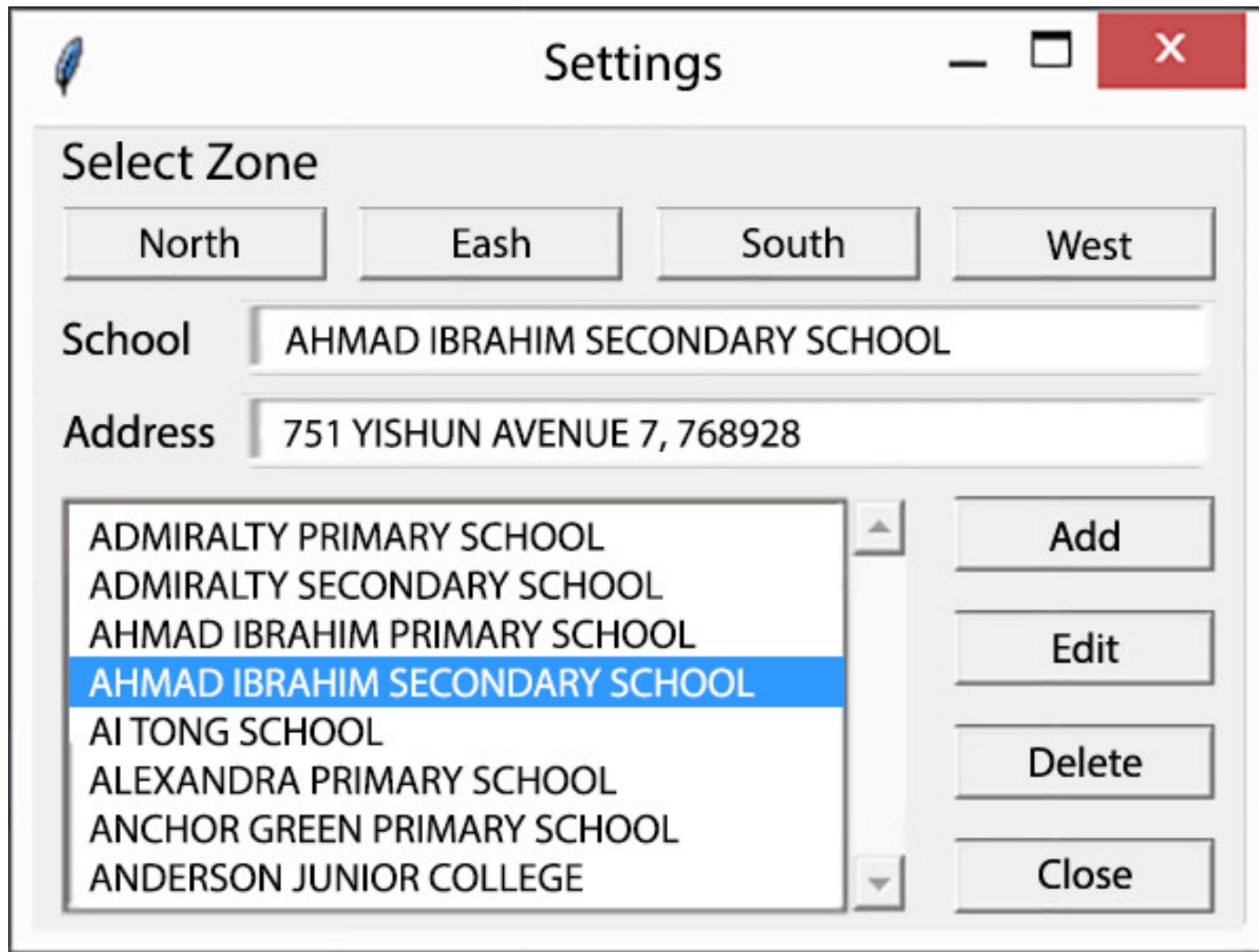




# Overview

## Settings GUI

# 1. OVERALL LOOK



The image shows a software window titled "Settings" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there is a "Select Zone" section with four buttons: "North", "Eash", "South", and "West". Below this, there are two text input fields: "School" containing "AHMAD IBRAHIM SECONDARY SCHOOL" and "Address" containing "751 YISHUN AVENUE 7, 768928". At the bottom, there is a list box containing several school names. The fourth item, "AHMAD IBRAHIM SECONDARY SCHOOL", is highlighted in blue. To the right of the list box are four buttons: "Add", "Edit", "Delete", and "Close".

Settings

Select Zone

North Eash South West

School AHMAD IBRAHIM SECONDARY SCHOOL

Address 751 YISHUN AVENUE 7, 768928

ADMIRALTY PRIMARY SCHOOL  
ADMIRALTY SECONDARY SCHOOL  
AHMAD IBRAHIM PRIMARY SCHOOL  
**AHMAD IBRAHIM SECONDARY SCHOOL**  
AI TONG SCHOOL  
ALEXANDRA PRIMARY SCHOOL  
ANCHOR GREEN PRIMARY SCHOOL  
ANDERSON JUNIOR COLLEGE

Add  
Edit  
Delete  
Close

\* Image is for Illustration Purposes only, final product may look slightly different

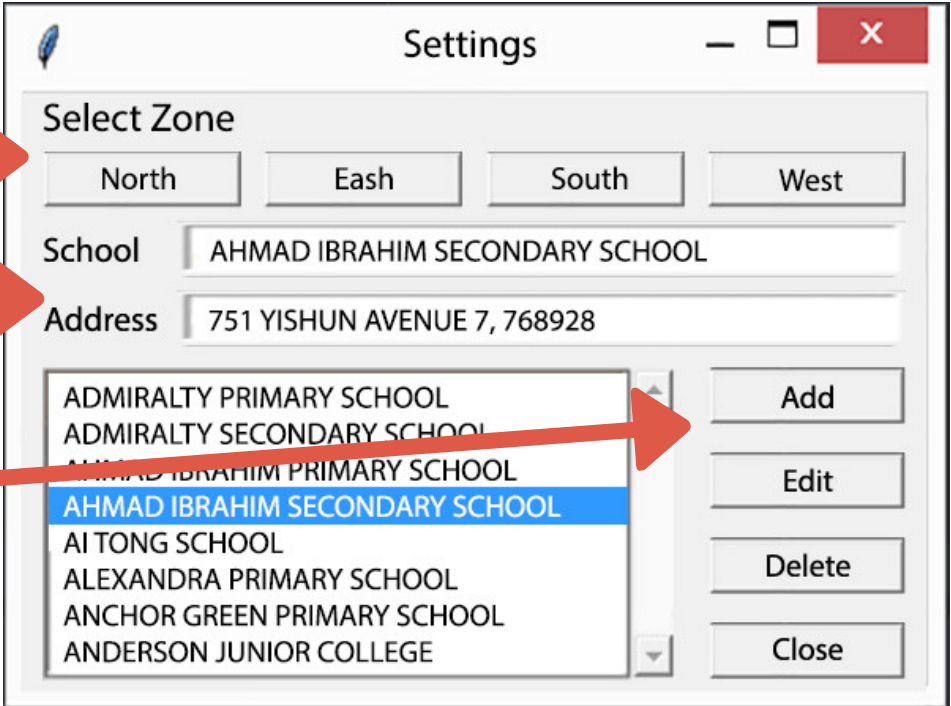
## 2. ADDING SCHOOLS

The settings app gives you the ability to **add** new schools.

1. Select the zone that you wish to add the school.

2. Type in the school name and the address.

3. Click on "Add" Button.



The screenshot shows a 'Settings' window with a title bar containing a feather icon, the text 'Settings', and standard window controls (minimize, maximize, close). The main content area is titled 'Select Zone' and contains four buttons: 'North', 'Eash', 'South', and 'West'. Below these are two text input fields: 'School' with the value 'AHMAD IBRAHIM SECONDARY SCHOOL' and 'Address' with the value '751 YISHUN AVENUE 7, 768928'. A list of school names is displayed below the inputs, with 'AHMAD IBRAHIM SECONDARY SCHOOL' highlighted in blue. To the right of the list are four buttons: 'Add', 'Edit', 'Delete', and 'Close'. Three red arrows point to the 'North' button, the 'School' input field, and the 'Add' button, corresponding to the numbered steps on the left.

Select Zone	
North	Eash
South	West
School	AHMAD IBRAHIM SECONDARY SCHOOL
Address	751 YISHUN AVENUE 7, 768928
<div>ADMIRALTY PRIMARY SCHOOL</div> <div>ADMIRALTY SECONDARY SCHOOL</div> <div>AHMAD IBRAHIM PRIMARY SCHOOL</div> <div><b>AHMAD IBRAHIM SECONDARY SCHOOL</b></div> <div>AI TONG SCHOOL</div> <div>ALEXANDRA PRIMARY SCHOOL</div> <div>ANCHOR GREEN PRIMARY SCHOOL</div> <div>ANDERSON JUNIOR COLLEGE</div>	
<div>Add</div> <div>Edit</div> <div>Delete</div> <div>Close</div>	

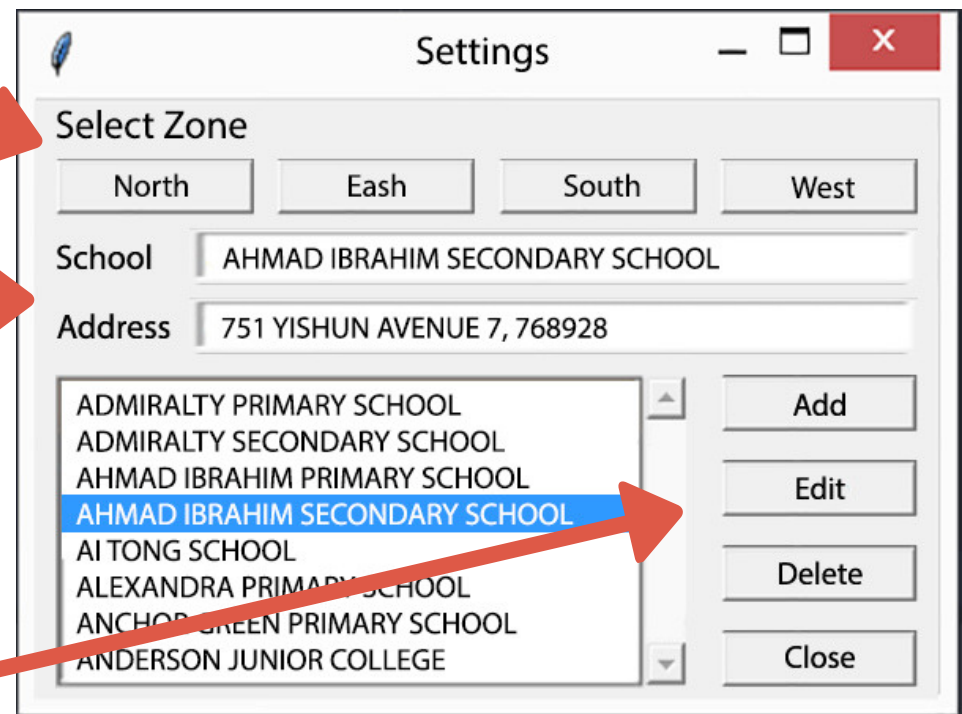
# 3. EDITING SCHOOLS

The settings app gives you the ability to **edit** new schools.

1. Select the zone that the school is in.

2. Scroll to that school and click on it. The school name and address would appear

3. Change the school name and/or the address and press "Edit"



The screenshot shows a 'Settings' window with a title bar containing a feather icon, the text 'Settings', and standard window controls. The main content area is titled 'Select Zone' and contains four buttons: 'North', 'Eash', 'South', and 'West'. Below these are two text input fields: 'School' with the value 'AHMAD IBRAHIM SECONDARY SCHOOL' and 'Address' with the value '751 YISHUN AVENUE 7, 768928'. A list of school names is displayed below the inputs, with 'AHMAD IBRAHIM SECONDARY SCHOOL' highlighted in blue. To the right of the list are four buttons: 'Add', 'Edit', 'Delete', and 'Close'. Three red arrows point from the instructional text on the left to the 'Select Zone' section, the highlighted school name, and the 'Edit' button.

Select Zone	
North	Eash
South	West
School	AHMAD IBRAHIM SECONDARY SCHOOL
Address	751 YISHUN AVENUE 7, 768928
ADMIRALTY PRIMARY SCHOOL	<div>Add</div> <div>Edit</div> <div>Delete</div> <div>Close</div>
ADMIRALTY SECONDARY SCHOOL	
AHMAD IBRAHIM PRIMARY SCHOOL	
<b>AHMAD IBRAHIM SECONDARY SCHOOL</b>	
AI TONG SCHOOL	
ALEXANDRA PRIMARY SCHOOL	
ANCHOR GREEN PRIMARY SCHOOL	
ANDERSON JUNIOR COLLEGE	

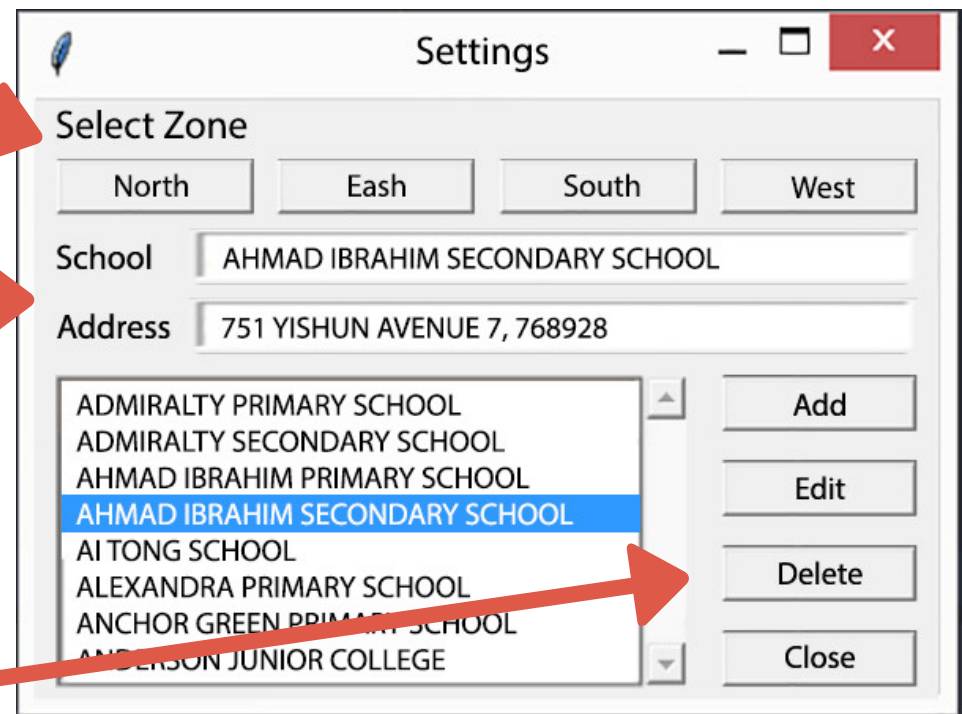
# 4. DELETING SCHOOLS

The settings app gives you the ability to **delete** existing schools.

1. Select the zone that the school is in.

2. Scroll to that school and click on it. The school name and address would appear

3. Change the school name and/or the address and press "Delete"



The screenshot shows a 'Settings' window with a title bar containing a pencil icon, the text 'Settings', and standard window controls. The main content area is titled 'Select Zone' and contains four buttons: 'North', 'Eash', 'South', and 'West'. Below these are two text input fields: 'School' with the value 'AHMAD IBRAHIM SECONDARY SCHOOL' and 'Address' with the value '751 YISHUN AVENUE 7, 768928'. A list of school names is displayed below the inputs, with 'AHMAD IBRAHIM SECONDARY SCHOOL' highlighted in blue. To the right of the list are four buttons: 'Add', 'Edit', 'Delete', and 'Close'. Three red arrows point from the instructional text on the left to the 'North' button, the highlighted school name, and the 'Delete' button.

Select Zone	
North	Eash
South	West
School	AHMAD IBRAHIM SECONDARY SCHOOL
Address	751 YISHUN AVENUE 7, 768928
<div>ADMIRALTY PRIMARY SCHOOL</div> <div>ADMIRALTY SECONDARY SCHOOL</div> <div>AHMAD IBRAHIM PRIMARY SCHOOL</div> <div><b>AHMAD IBRAHIM SECONDARY SCHOOL</b></div> <div>AI TONG SCHOOL</div> <div>ALEXANDRA PRIMARY SCHOOL</div> <div>ANCHOR GREEN PRIMARY SCHOOL</div> <div>ANDERSON JUNIOR COLLEGE</div>	
<div>Add</div> <div>Edit</div> <div>Delete</div> <div>Close</div>	

# ACTION REQUIRED

- In order for me to start developing the solution, i need your action in the following:
- Tell me if the solution that was devise is able to solve your problem.
- Tell me any changes that you wish to make to make it easier for you to use the app.
- Reply any inquiries that i may have in the email that i sent.
- Any questions that you may have with the whole solution.