## NYC Schools – Design Document

NYC School district collected data components through their internal survey. After reviewing the requirements and the related dataset. I was asked to review the details and provide a mobile application solution for school district.

**Requirements:**

Here are the basic requirements:

1. **Display a list of NYC High Schools.** 
   1. Get your data here: <https://data.cityofnewyork.us/Education/DOE-High-School-Directory-2017/s3k6-pzi2>
2. **Selecting a school should show additional information about the school** 
   1. Display all the SAT scores - include Math, Reading and Writing.
      1. SAT data here: <https://data.cityofnewyork.us/Education/SAT-Results/f9bf-2cp4>
      2. It is up to you to decide what additional information to display

**Design:**

One of the appropriate mobile application that can be developed here is a Business Intelligence Dashboard.

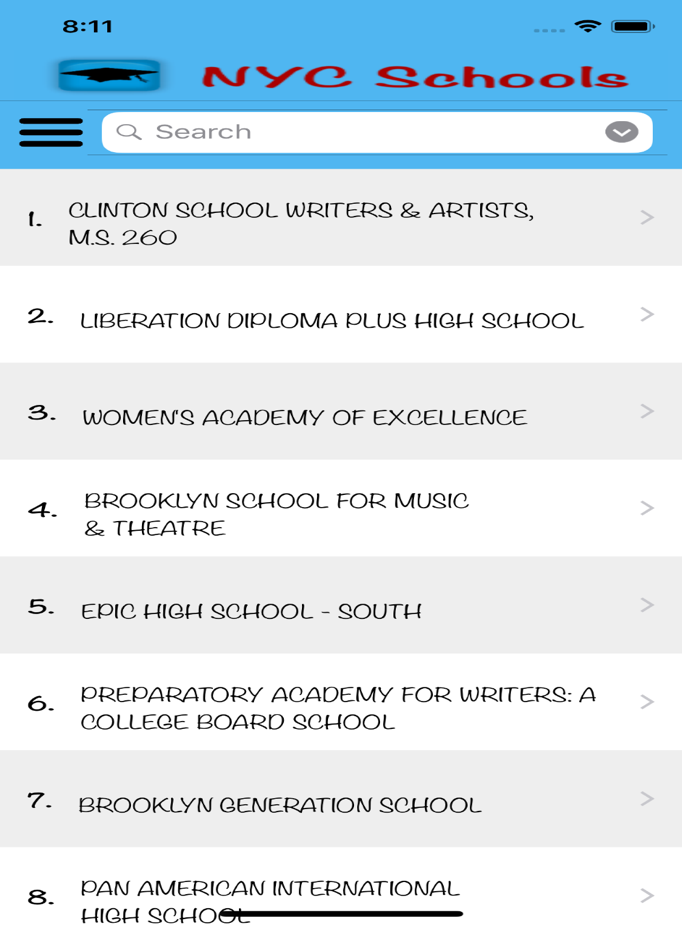
Given enough time, my design would be:

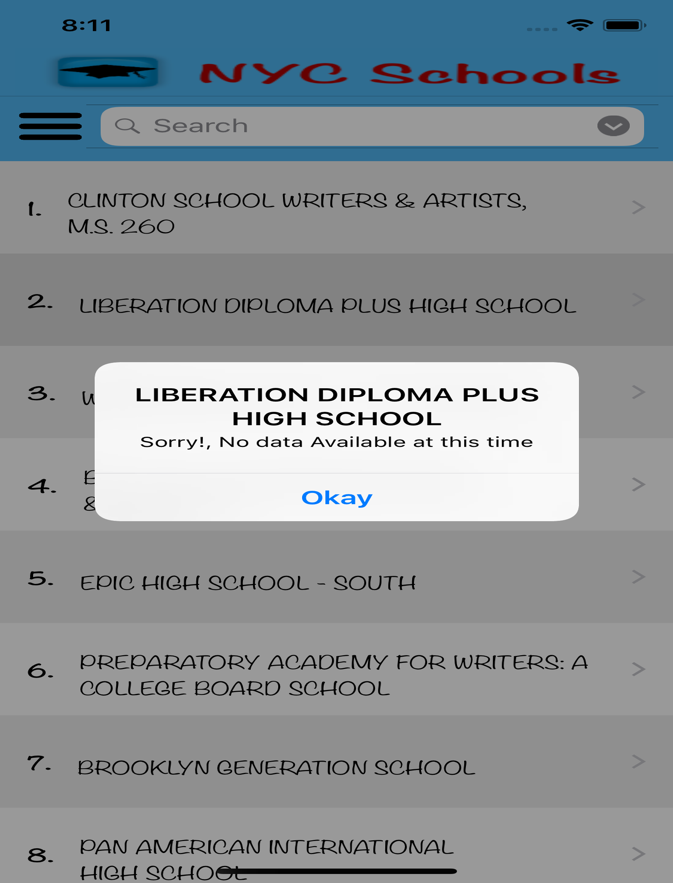
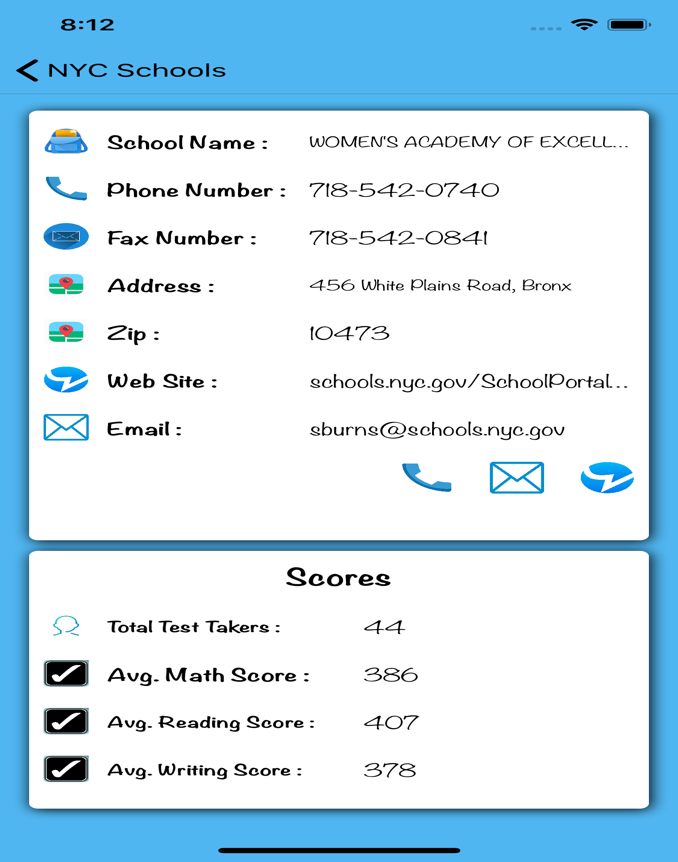
|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Requirement** | **Status** | **Notes** |
| 1 | NYC School logo needs to be presented as part of the app | Done | Sample logo has been presented. |
| 2 | Search Criteria to select small set of data with desired parameters | Presented UI | Provided the concept. Not functional yet.  included search bar, no action assigned for it. Tableview can be sorted based on the user input and can be selected.) |
| 3 | Visible separation of Schools list with Sequence number | Done | Presented with the alternative colors, that gives user more clear view. |
| 4 | Sorting option | Would’ve done if given enough time | Presented the concept. |
| 5 | Navigation to the details on School selection | Done |  |
| 6 | School Details would include the following:   * + School Name   + Phone#   + Fax#   + Email   + Web Site Address   + Test Scores and Count | Done | Additional details can be added. Provided key data details just to prove the concept.   * Expectation is to call the school through the app. * Fax an attachment to the school. * Navigation to the school web site. * Email can be sent. |
| 7 | Menu | Presented UI | Presented Menu option.  Concept is to provide user check dashboard, select range of schools for respective sat scores and more related items in an easily readable tableview. |
| 8 | Dashboard | Would’ve done if given enough time | Concept is for the user to view the dashboard where various analyses can be presented through pi/bar charts. Data components that will be used here are the test scores against school, zone, subject etc. |
| 9 | Schools in Range | Would’ve done if given enough time | Concept is to take user inputs for respective SAT scores and update the tableview with top 10 schools and again going back to default mode. |

**Screenshots Presented below: -**

**Presentation:**

On a successful launch of the app on the mobile phone, the user will be able to see the following:

**** 

 ****