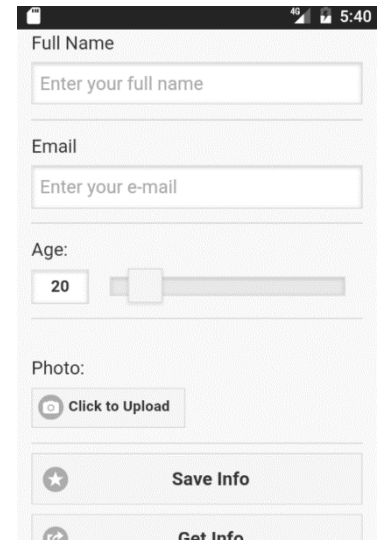# PROG20261: Assignment N2

**Evaluation:** 10 points, 5% of your final grade.
**Due date:** See Dropbox

The purpose of this assignment is to synthesize what you have learned about Cordova and jQuery Mobile.

Please check the demo application:
https://youtu.be/qm8yxMS1o2k

## Introduction:

As you could see from the video, data from the form is stored in the SQLite database.

Form must be properly refreshed, confirmation popups and notification shown.

## Main Requirements:

In this assignment, you <u>must</u> use jQuery and jQuery Mobile to save and pull data from the Cordova's SQL Lite Storage: https://cordova.apache.org/docs/en/latest/cordova/storage/storage.html

Note: you <u>must</u> use SQLite storage (**cordova-sqlite-storage** plugin).

Solutions with localStorage or IndexedDB won't be accepted (i.e. you'll receive only a partial mark).

The following conditions must be met:

1. Your application should run in the Android emulator (as set in the class).
2. You need to implement form-related error notifications using jQuery Mobile popups.
3. Once the form data is saved you need to show a Cordova dialog notification (see video).
4. You should be able to store more than one student in the database.
5. You should implement basic email search with data restoration.
6. E-mail search must be case-insensitive.
7. You should implement photo manipulations as shown on the demo version: add & remove photo and "Delete Photo" button, save file location in the database, and refresh photo.
8. Do NOT store binary photos in the database! You must store a link to a local file.
9. Please make sure you use only required Cordova plugins.
10. Install jQuery 1.12.4 and jQuery Mobile 1.4.5 <u>locally</u>. (i.e. do NOT use CDN). You must install only what's required. For instance, install and use only jquery.min.js instead of full jquery.js file!
11. Make sure all CSS styling and JavaScript code is <u>inside</u> index.html (i.e. do NOT use external CSS or JavaScript files).
12. Your application must be reasonably optimized.
13. Your application must look and work similar to demo application.

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PROG20261: Assignments N2

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Winter 2017

## Hints:

- To reset the form you can add \<form> tag to your markup. However, you should prevent form "submission" with **event.preventDefault()**;
- To show/hide the "Delete photo" button use display property in CSS ("none" and "inline").
  You can also use jQuery methods **.show()** and **.hide()**.
- To deal with popup you might want to use **.popup("open")** and **.popup("close").**
- When you "delete" photo two things must be done:
    - You must change **src** attribute to default empty gif data URI.
    - You must "hide" the fieldset with image tag.

## Submission:

- This is an individual assignment. Copied code will be subject to regulations against academic integrity. Please name your project "Assignment2".
- Make sure all CSS styling and JavaScript code is inside index.html (i.e. do NOT use external CSS or JavaScript files).
- Export your NetBean project as zip archive (go to File->Export Project->to ZIP) and upload **Assignment2.zip** file to Dropbox.
- **Late submissions are not accepted!**

## Mark Breakdown & Deductions:

- You'll still get a partial mark even if you don't or partially implement all the main requirements.
- You won't get a full mark if you don't use SQLite cordova plugin.
- For mark breakdown please see the evaluation rubric on SLATE.