

## Project 1

### Introduction

In this project you are tasked with creating a single page JavaScript/HTML/CSS application. The application consists of a Note List application.

### Objective

Create a single page HTML5 application for taking a list of notes. This single HTML page will open in the browser and all interactions will happen in the same page with JavaScript, the browser itself should never have to refresh the page. The data from the note list will be persistent between loads using local browser storage.

### General Requirements

- All HTML tags and page structure should be **HTML5** compliant
- CSS and JavaScript needs to be placed in external files
- Application should reside in a single HTML page named app.html
- jQuery is fine to use for the project
- Any CSS Framework, like bootstrap, is ok to use for the project
- The list of notes must persist in local storage in the browser. If the browser is closed and reopened the notes will still be there. This can be done with localStorage or Indexed DB for undergraduates, Indexed DB for graduate students. Do not use sessionStorage, we want persistence between browser sessions.
- On the page there needs to be a list view of the notes, a detail view that shows the details of whatever note is clicked, and a form to add a new note.
- You have to be able to delete a note via a delete button. The delete can happen in the list view or the detail view.
- Style the User Interface with CSS so it is functional, clear, and intuitive to use. UI that is confusing, not styled, or hard to understand will not receive full points
- Note data should consist of: Name, Subject, Message, and a date/time stamp when it was created.
- List view should only show message subject and date/time, not full message text. Detail view should show all data. When you click a message in the list view in some way it should show up in the detail view.
- User interface decisions are left up to you

### Graduate Additional Requirements

If you are involved in **any section of 565 you are registered in the class as a graduate student and** you need to complete the additional requirements listed here.

- You must use Indexed DB for persistent storage of the Notes.
- The note should be modeled as an Object using the constructor pattern.
- Your JavaScript should not be in the global namespace.
- Show a count on the number of notes in the list view.
- In the list view also show how many characters are in the message text.
- Be careful of JavaScript injection in your text fields and don't allow it.
- CSS will be expected to be at a higher level of quality. Application should not have any confusing UI aspects. The more creative you display the application elements and how intuitive the user interface is will be looked at.

### README File

Not Required for this Project unless you need to explain features or problems with your application. If you feel you need to explain anything in your application or mention any libraries used other than jQuery or Bootstrap include a readme.txt file with that information.

### Due Date / Late Policy

This assignment is due **Friday March 11, 2016 11:59 PM Chicago Time**. See syllabus for full late policy. **No Extensions.**

### Submission Guidelines

You must upload your submission, to the blackboard assignment by the due date. The submission must be in the following format and structure. If you do not submit your assignment exactly as specified, you will receive an immediate 5% deduction.

#### *Submission Format Specification:*

**YourUsername\_YourIdA#\_Project1.zip**

**Your zip should include:**

**app.html**

**any external css files used**

**any external js files used**

**any image files used**

**readme.txt file if needed**

**The css, js, images, and any other files may be placed in subfolders for organization**