NEO LEARNING SYSTEMS

DESIGN DOCUMENT – PROJECT RAPTOR

STUDENT APP

APRIL 2017

VERSION 1.2

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2 OVERVIEW

The Student App in Neo Learning Systems (NLS) will be undergoing some amount of rework and change to meet the requirements for the education market. Our software is directly tied to the Ontario standardized mathematics curriculum. The App provides user interfaces for students and parents.

Note: The parent's part of the project will be developed at a later date.

2.1 PROJECT OBJECTIVES

The project must meet the following general objectives (specific objectives and project deliverables will be covered in other sections of this document).

- Change the UI to meet the guidelines set by the Ontario Curriculum

- Create the appropriate level of application security for the Students.

- Responsiveness of the Project for Students to be able to view in any device in Chrome browser.

- Deliver the changed functioning applications by July 2017.

3   STUDENT ROLE

The following sub-sections correspond to the various screens or tabs that will change or require rework to the current implement app.

3.1   STUDENT LOGIN

The login screen for the Student App will now be same as the teacher, principal roles; pictured below in Figure 1. A student will login using his/her email-id instead of the user id as used in the other apps. Whenever a user logs out of the application, they should be brought back to this login screen and any sessional data stored within the browser should be deleted. If the user is inactive for more than 10 minutes the application should also auto log out and be redirected to the login page.
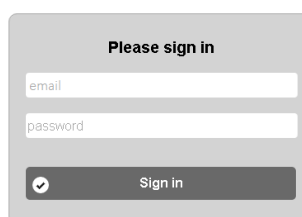
Figure 1: Login screen for the student user role

After logging in the student will view a menu which visually will be same as the teacher or principal app; picture shown below Figure 2. The menu includes only two modules for now Agenda and History, details for this will be explained further in the document.
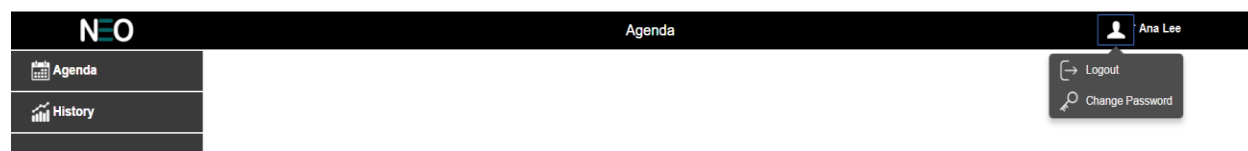
Figure 2: Menu screen for the student user role

3.1.1 LOGOUT AND CHANGE PASSWORD

Students can log out by clicking on their user icon on the top right corner of the screen. This will take the user to the login screen. They will also have the option to change their password.

Clicking on the icon will reveal to options to the user, Logout and Change Password as shown in Figure 2. The icons are available in GitHub.

Selecting the change password option will open a small dialog window (as shown in Figure 3 below) that asks the user to enter the following:

- Their existing password
- Their new password
- Confirm their new password

After this, they should click on the Okay button. Clicking the Okay button should first check that both new passwords are exactly the same, and if true and the old password is correct, then commit the new password to the database. If the new passwords do not match, or the old password is incorrect, an appropriate error should appear and give the user a chance to re-enter their new password.
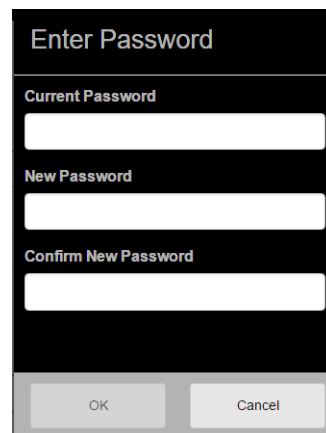
Figure 3: Change Password

3.1.2 BROWSER SESSION STORAGE

The following values will need to be queried from the database after login and placed in the web browser's session storage for later use on other pages:

User ID	Role
First Name	Last Name
Location ID (for the school)	Location Name

3.1.3   TABLES TO USE

Query the following tables to retrieve the relevant data: User, ClassUser, Class, and Location.

Additional Notes about this screen:

- Part of milestone Release NeoStudents v1.2 due May 20, 2017.

- All logos, graphics and style files can be found within the application repository on GitHub.

3.2   AGENDA

The Agenda tab, pictured below in Figure 4, is used by students to view **active** Assessments and Exit Tickets only. The UI has been changed. The Agenda tab should be highlighted to indicate the user is in the Agenda page.
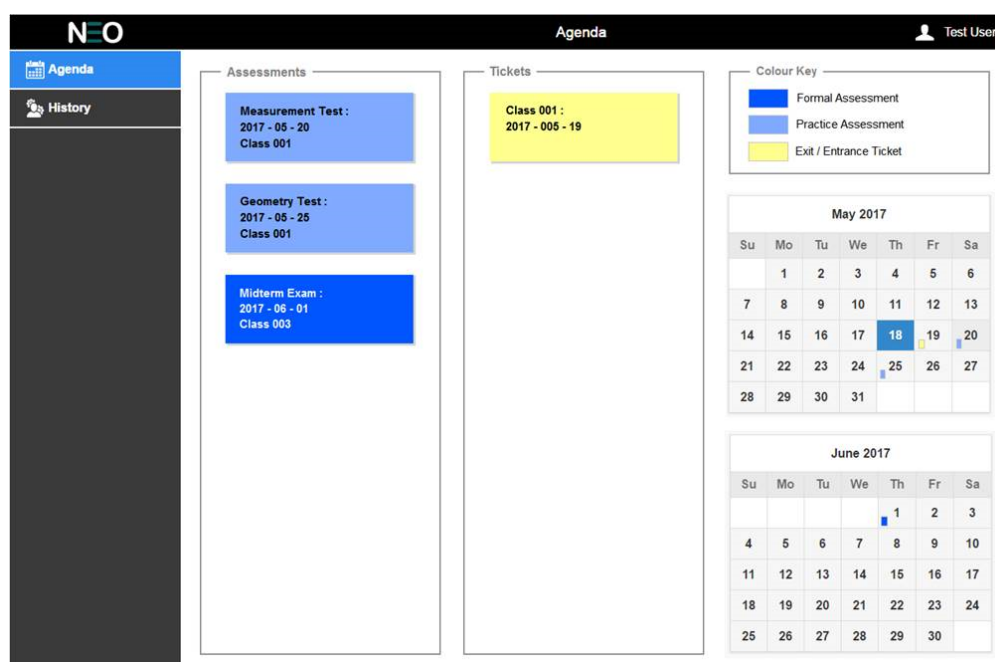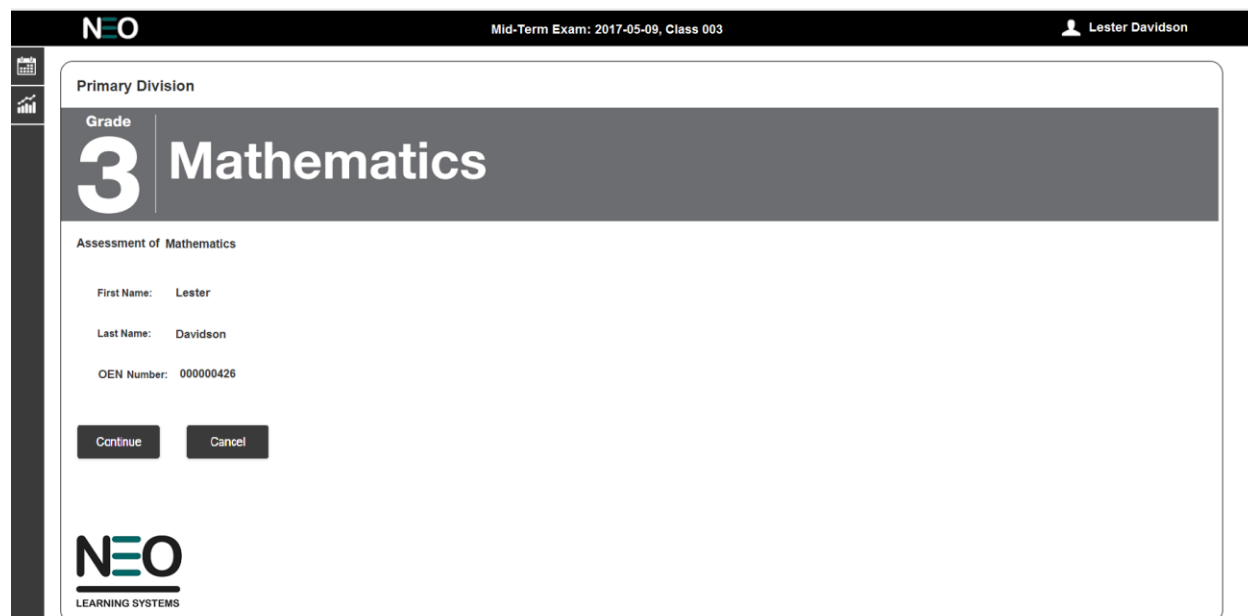

Figure 4: List of Assessments & Exit Tickets

The student will be allowed access only to current date Assessments or those Assessments that have not reached the end date that match the current date. These active assessments will be viewed in a place-card with background color #80AAFF for practice assessments, #0055FF for Formal Assessments and #FFFACD for exit /entrance tickets. A legend table is to be displayed for indicating the type of assessments. A calendar will also be displayed on the right side of the list of assessments. This calendar will display only the current month and next month. The user will not be allowed to scroll through the months of the Calendar. Tags for the respective assessments will be shown on the calendar as in the figure. These tags will display all the assessments, active and inactive for the two months shown.

On click of the Assessment or Exit Ticket, the Student test app will open within the same window. The design for the Student Test page has considerably changed and is explained below.

3.3   STUDENT TEST

Clicking on the assessment will bring the logged in user to the first page of the test which will showcase the user details. The page will show details, the OEN number, First, Last name of the Student, the Grade and Course, as in Figure 5 shown below.

Figure 5: Student Details

The page header will show the assessment details i.e. the assessment name, date and class. The left side menu will decrease to show only the icons of the tabs.

Clicking on 'Continue' will take the student to the PIN number (if required) page of the test or directly to the first page of the test. If the user clicks on 'Cancel', will take the user to the Agenda page where the assessment list is displayed for the user to select.

Once the user enters the test section and clicks on any other links of the app, like clicking on the Agenda & History icons or logout and change password options then a pop-window to be shown (as in figure 6 below) confirming that if they leave the page they will lose their test work. Clicking on 'Continue' will take the user to the respective link and clicking on 'Cancel' will keep the user in the current page. When the student completes the test and clicks on the submit button the user will be taken back to the agenda page. This is the same when the test auto-submits.

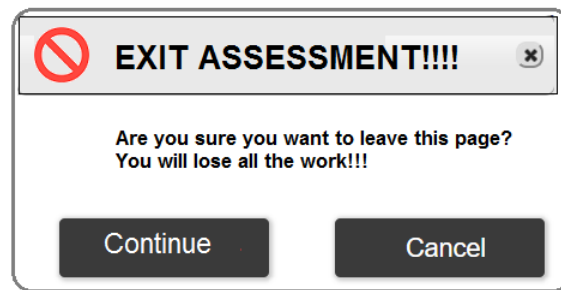Note: This is somewhat different from the current flow of the student app.

EXIT ASSESSMENT!!!!

Are you sure you want to leave this page?
You will lose all the work!!!

Continue   Cancel

Figure 5: Pop-up message

3.4   HISTORY

The History tab, pictured in Figure 6 below, will display to the logged in student their assessment results till date. This is similar to the Classes module in the Teacher App. All data in this screen will be read only. There will no filters to display and no further drill downs. The displayed assessments should be a date sensitive list. The valid dates for this list of assessments should be from Start Date to the End Date of the logged in students class; this data can be found in the database Class collection.

The individual bars should be color coded by test type (Formal, Practice, Outgrade). See the color chart in the following section for details on color codes.
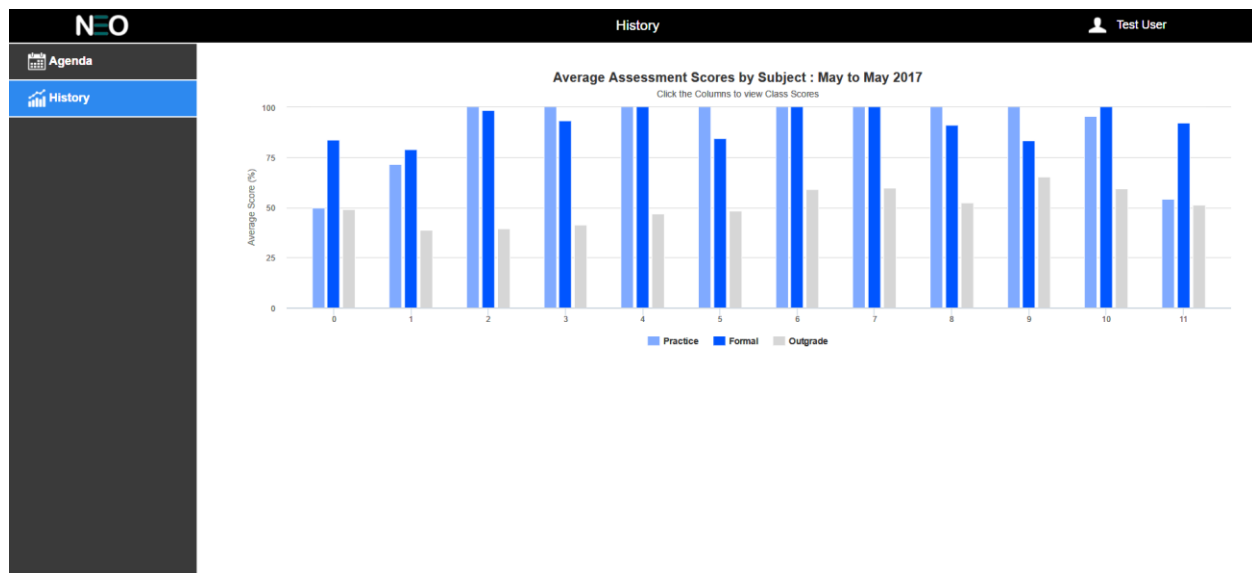

Figure 7: History Tab

The graph title should read 'Assessment Scores:' followed by the first and last date of the student's assessments. The y-axis should read Assessment Score (%) and display data from 0 to 100 with intervals of 20.

Practice Assessment	#80AAFF	
Practice Assessment Rollover	#B3DBFF	
Formal Assessment	#0055FF	
Formal Assessment Rollover	#B3DBFF	
Outgrade Assessment	#D6D6D6	
Outgrade Assessment Rollover	#EFEFEF	

Table 1: Assessment Graph Colour Palette

Rolling the mouse pointer over a specific bar should reveal a tooltip with specific information about that data point (see Figure 7 below). The tooltip should have a title (Class Average), the specific test date, and the percent for the class on that test.
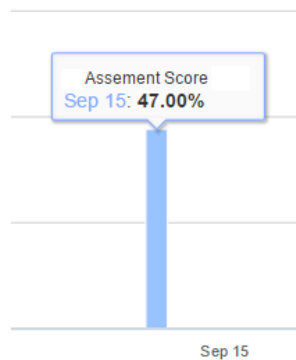

Figure 8: Tool Tip for Assessment Score.

4   NON-DISCLOSURE

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