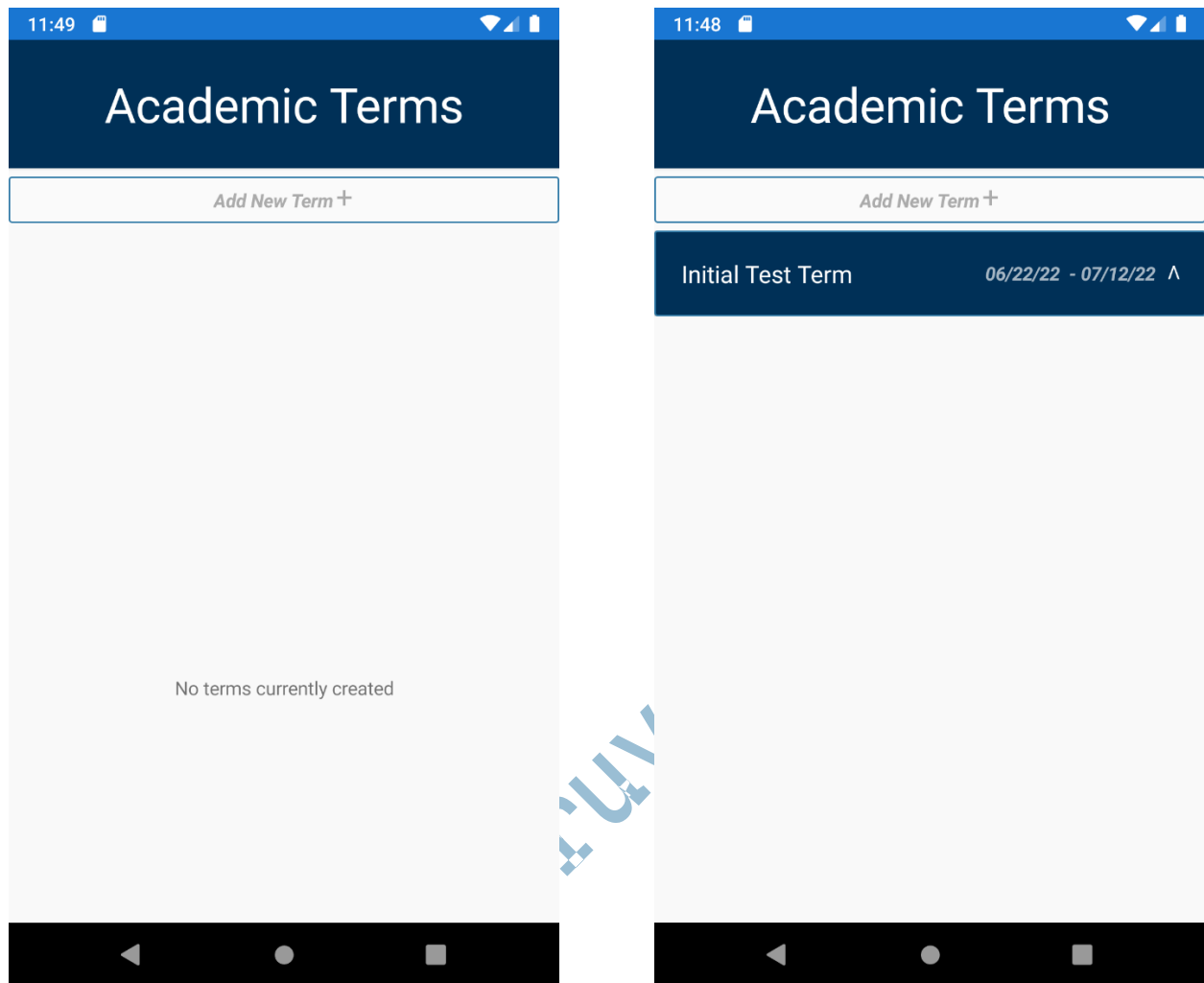


Instructions for Academic Terms Manager Mobile Application (Developer Use)

Table of Contents

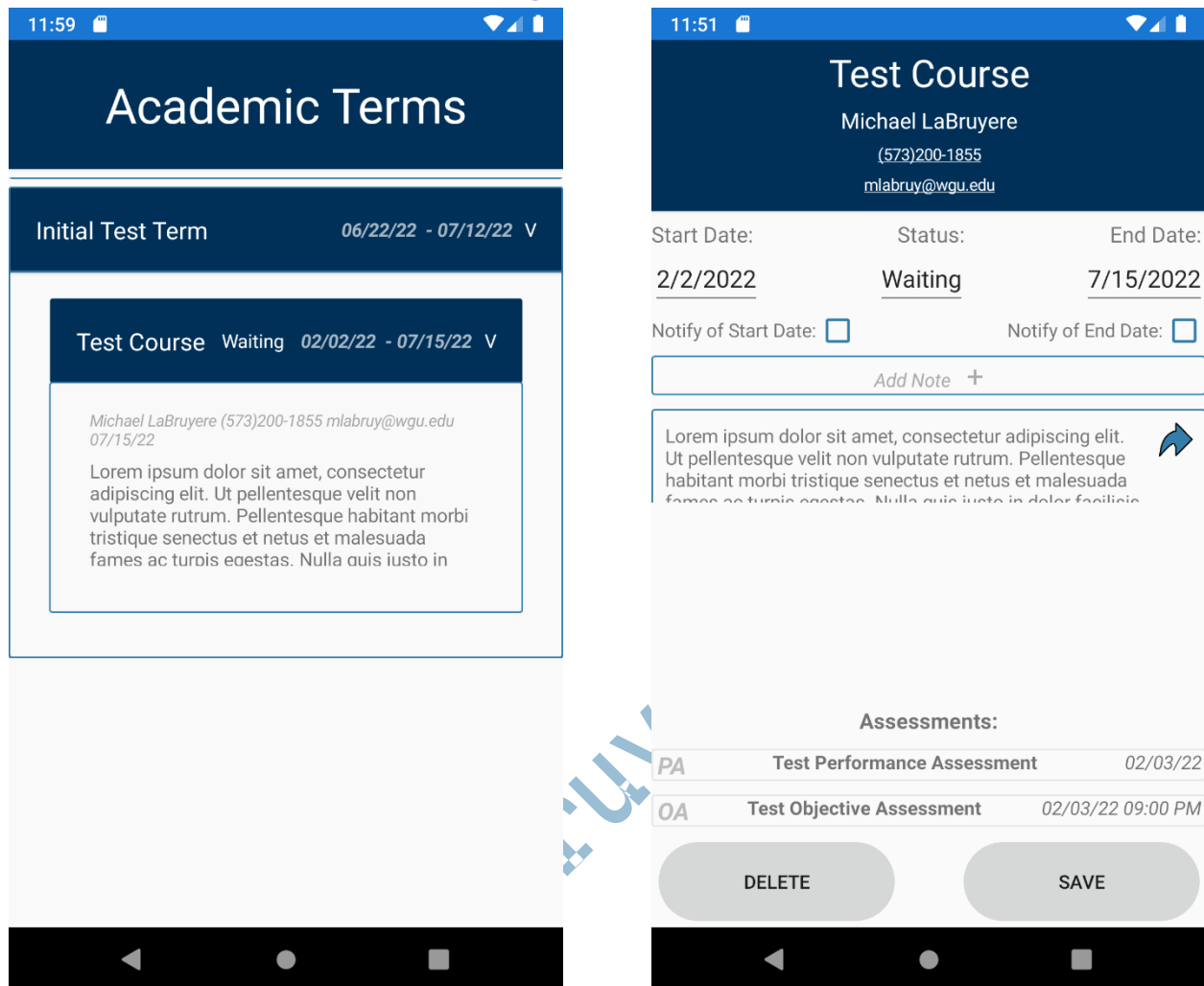
1.	Initial Start.....	2
2.	Editing Course Information	3
3.	Adding or Deleting Courses.....	4
4.	Editing, Deleting, or Adding Notes.....	5
5.	Editing, Deleting, or Adding Assessments.....	6
6.	Editing, Deleting, or Adding Terms	7
7.	Accessing and Using “Administrative Functions”	8
a.	Search.....	9
b.	Reports.....	10
8.	App Style/Theming Obedience	11
9.	Troubleshooting Potential Issues (for developers/maintenance)	12

1. Initial Start



When starting the program, the user is greeted with the "Academic Terms" screen. On the first build/run, this will initially display as blank with the "Add New Term +" button and a label stating "No terms currently created" being the only controls visible. After a moment, depending on device load speed, the default data will load in and display a collapsed view for "Initial Test Term." After expanding, the user will see an expandable view for "Test Course." Expanding the course view will reveal the instructor info, currently set to my information, and a default placeholder note.

2. Editing Course Information



Taping the course info on the Terms screen or adding a new course in the Edit Term screen will open the Course View screen. Here the user can see and edit all the course details. Essential details such as course name, notes, and instructor information, can be edited by double-tapping them. Single-tapping the instructor's phone number or email will open the associated program for phone and email, respectively. This functionality does not work correctly on android emulators and will cause an exception or crash. Single-tapping the date pickers, picker for status, assessment boxes, the share button for notes, or checkboxes for notifications will activate their functionality. Most are self-explanatory. Assessments, specifically, will be discussed in a standalone section.

The Delete and Save buttons function as one would expect. Delete prompts for confirmation before performing any actual deletion. Delete does not remove the Assessments or Notes entries from their database, so it will not trigger the "initial run" data loading if the course is deleted before removing the term.

3. Adding or Deleting Courses

3:43

New Course

Instructor Name
Instructor Phone #
Instructor Email

Start Date: 7/19/2022 Status: Waiting End Date: 7/19/2022

Notify of Start Date: ☐ Notify of End Date: ☐

Add Note +

Assessments:

PA Add Performance Assessment

OA Add Objective Assessment

DELETE SAVE

4:08

New Course

Instructor Name
Instructor Phone #
Instructor Email

Start Date: 7/19/2022 Status: Waiting End Date: 7/19/2022

Notify of Start Date: ☐ Notify of End Date: ☐

Add Note +

Assessments:

PA Add Performance Assessment

OA Add Objective Assessment

DELETE SAVE

Remove Course

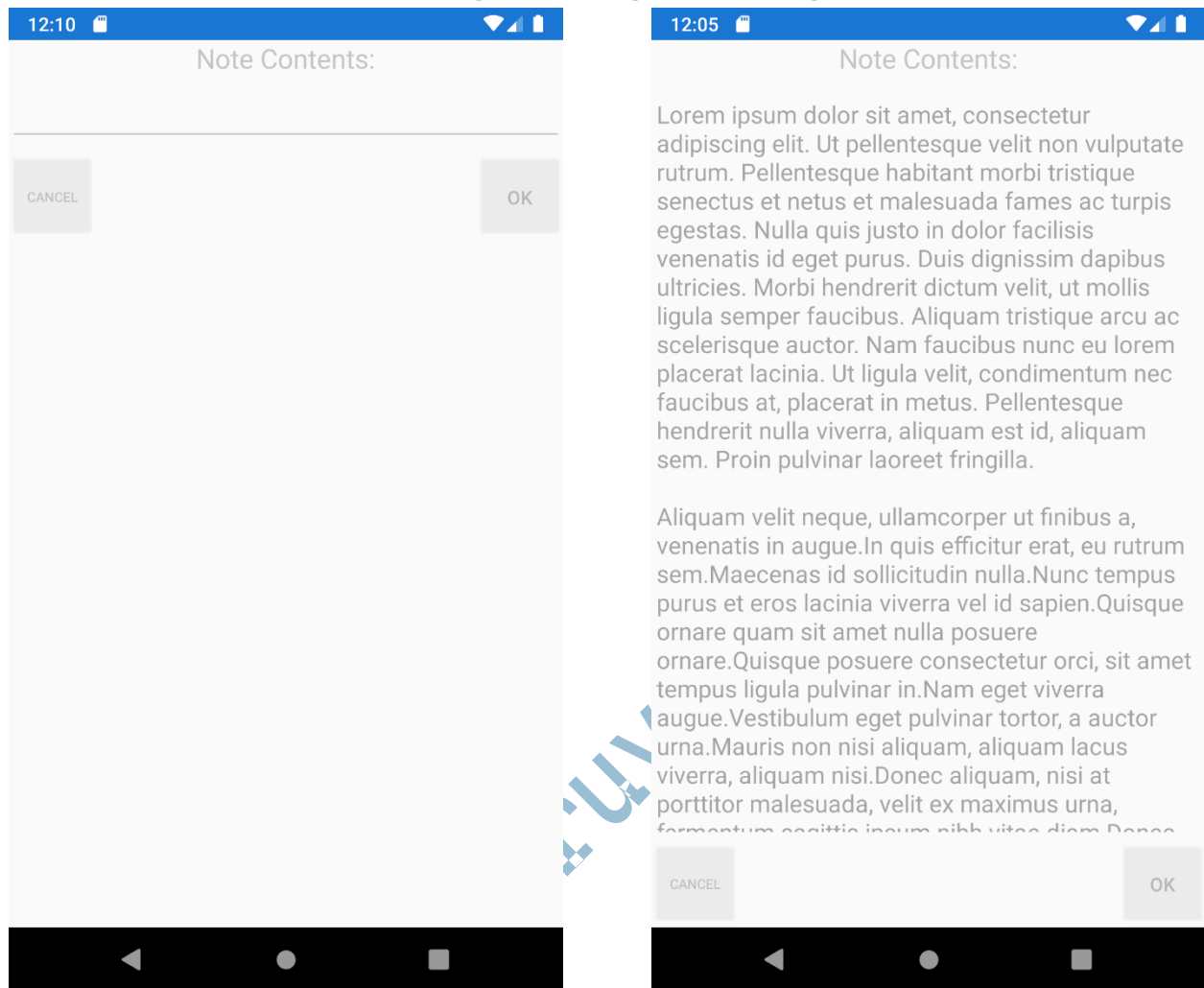
You are about to remove this course. Do you want to continue?

NO YES

Adding courses is done through the "Edit Term" screen. After tapping the "Add Courses" button, a generic course will be created and opened in the "Edit Course" view, allowing for standard editing, including course dates, instructor information, notes, etc. For new courses, today's date is used as both the start and end, but can be changed as usual. The start date has a XAML binding to prevent it from being after the end date.

Deleting a course is accomplished on the "Course View" screen, as previously stated. Upon clicking the delete button, the program will prompt the user to confirm the deletion.

4. Editing, Deleting, or Adding Notes



Tapping the "Add Note+" button or double-tapping an existing note in the Course View window will open the Edit Note window. If editing an existing note, the note contents will be pre-populated. Notes can be up to 2^{32} characters long (the 32-bit integer limit of the property "length") and are contained in a scrollview to allow scrolling of contents as needed. Cancel will close the window discarding all changes, while the OK button will save the information if it is not blank. In both cases, if the note is empty, a prompt will be displayed, and, if accepted, the note is removed.

5. Editing, Deleting, or Adding Assessments

12:28

Assessment for Test Course

Assessment Type: Performance

Assessment Name: Test Performance Assessment

Start Date: 02/02/2022 Notify? ☐

End Date: 02/03/2022 Notify? ☐

DELETE SAVE

12:28

Assessment for Test Course

Assessment Type: Objective

Assessment Name: Test Objective Assessment

Start Date: 02/02/2022 12:00 AM Notify? ☐

Duration: 2 Hours Notify? ☐

DELETE SAVE

When tapping the listed assessment or the "Add Performance/Objective Assessment" field, if one is not available, the Edit Assessment window will open. Depending on the type of assessment, different controls will be displayed. Both kinds will display a field for entering the name, a start date, and checkboxes to enable notifications for the start and end of each. The Assessment Type is listed but is not editable. For performance assessments, a simple End Date selection is presented in the form of a datepicker. For objective assessments, a timepicker for the start date will be displayed. The end date will be calculated from the information entered in the duration field and timeframe picker (hours or minutes).

Save and Delete buttons are presented with Delete prompting the user to confirm the deletion.

6. Editing, Deleting, or Adding Terms

12:41

Edit Initial Test Term

Term Name: Initial Test Term

Start Date: 6/22/2022 End Date: 7/12/2022

Test Course	Waiting	02/02/22 - 07/16/22
-------------	---------	---------------------

CANCEL ADD COURSES SAVE

12:41

Edit Initial Test Term

Term Name: Initial Test Term

Start Date: 6/22/2022 End Date: 7/12/2022

Course Limit
You have reached the maximum allowed courses per term. Please remove one or create a new term.
OK

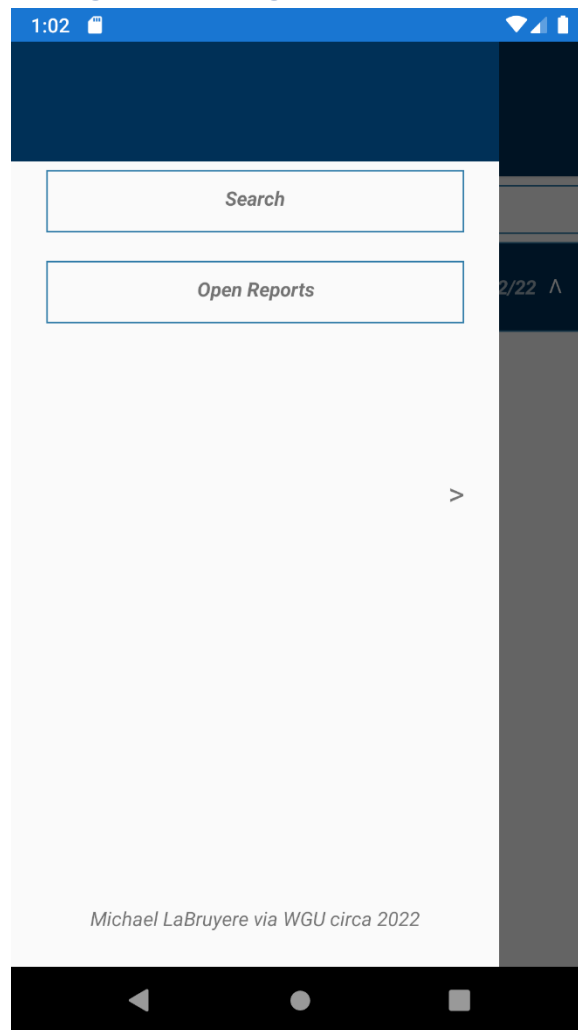
Test Course	Waiting	02/02/22 - 07/16/22
New Course	Waiting	07/16/22 - 07/16/22

CANCEL ADD COURSES SAVE

Double-tapping the header/name display of the Term or any course within it will open the Edit Term view. In this view, the user can change the term title, start and end date, and add classes. If the term title is blank when clicking Cancel or Save, it is seen as an attempted deletion and will prompt the user for confirmation. Deletion of the term does not remove the courses, assessments, or notes.

If attempting to add more than six courses to a term, an error prompt will display, informing the user of the issue and advising removal of a class or creation of a new term.

7. Accessing and Using “Administrative Functions”



A few "administrative tasks" are available that enable quick information display at a glance. These fall into two categories, "Search" and "Reports."

To access either option, the user must first swipe right on the main page to reveal the menu. From there, select which option the user wishes to access by pressing the corresponding button.

a. Search

Search

Search Term: _____

Term ☒ Course ☒ Assessment ☒

Search

Item Name	Start	End	Status (opt)
-----------	-------	-----	--------------

Search

Search Term: test

Term ☒ Course ☒ Assessment ☒

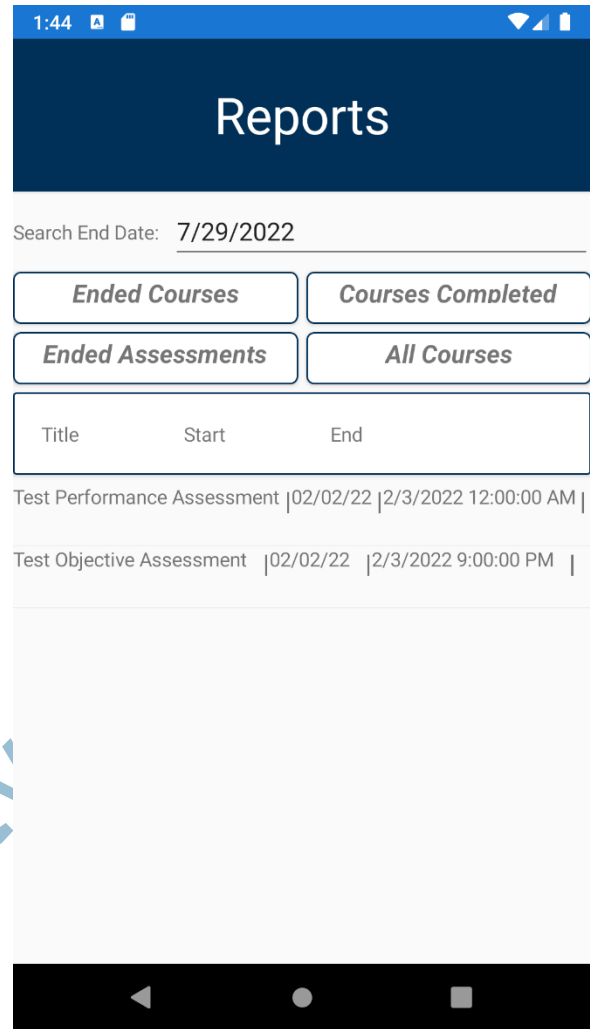
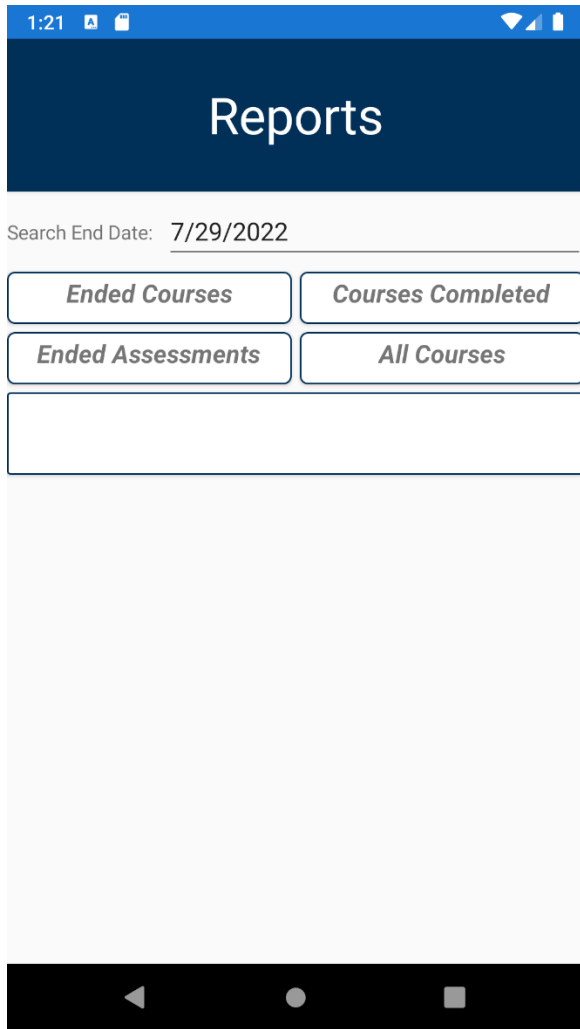
Search

Item Name	Start	End	Status (opt)
Initial Test Term	06/22/22	7/12/2022 12:00:00 AM	
Test Course	02/02/22	7/29/2022 12:54:13 AM	Waiting
Completed Test Course	02/02/22	7/29/2022 12:54:13 AM	Completed
Test Performance Assessment	02/02/22	2/3/2022 12:00:00 AM	
Test Objective Assessment	02/02/22	2/3/2022 9:00:00 PM	

Once on the search page, the user will be presented with an area to type their desired search term, checkboxes indicating which database table to search, the custom search button, and the results header bar.

After typing the search term and pressing the search button, any matching results are displayed in the listview below the header bar. Results are updated immediately without the need to reopen the page. Since results are presented in a listview, users can scroll to find their desired result.

b. Reports

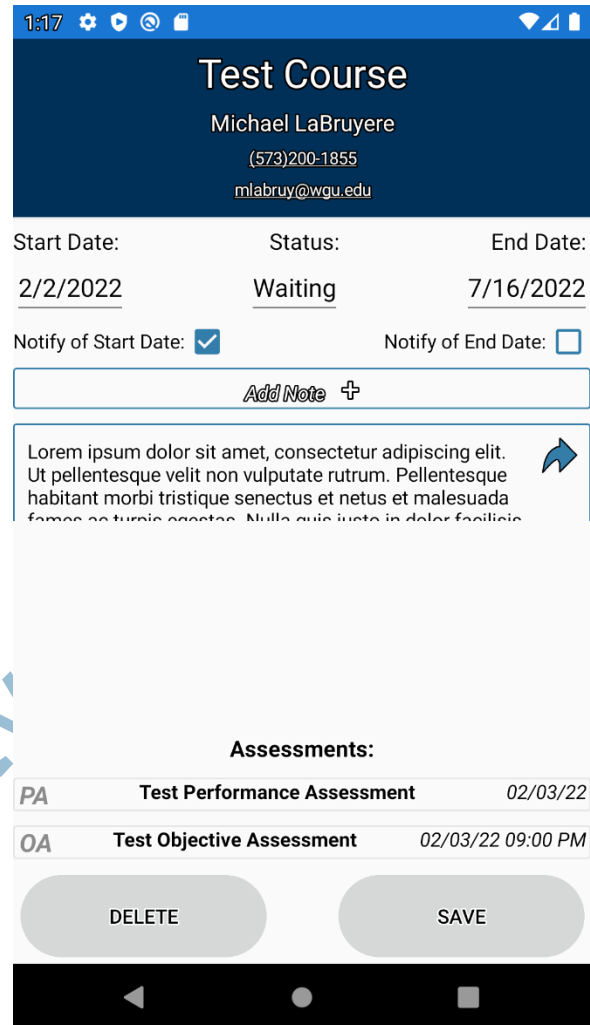
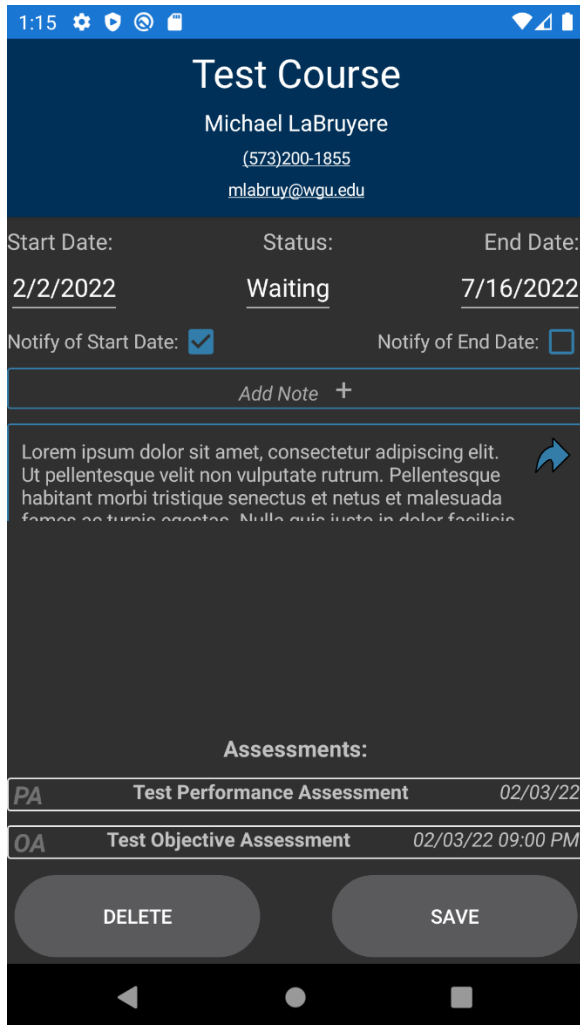


After opening the reports page, the user will see a label, "Search End Date," which will inform the user what the datepicker next to it is. Below are the four buttons for the included types of reports:

"Ended Courses," "Courses Completed," "Ended Assessments," and "All Courses."

As with the "Search" page, a header bar is presented to identify the columns for the results. Also, as with Search, results are presented in a listview that automatically updates with the requested information and does not require a page reload.

8. App Style/Theming Obedience



The application does have some statically styled elements, but most obey the theming of the system, such as dark mode, high contrast, light mode, etc.

9. Troubleshooting Potential Issues (for developers/maintenance)

- 1) If, when building or deploying, one of the following errors is listed

Assembly 'Xamarin.Android.Support.v4' is using '[assembly: Java.Interop.JavaLibraryReferenceAttribute]', which is no longer supported. Use a newer version of this NuGet package or notify the library author.

XA0129: Error deploying 'files/.__override__/ATMan.Android.dll'.

simply attempt to build again or clean the solution and then build. This is an error in the Xamarin version and Visual Studio IDE, respectively, and not due to any code written for this app. Cleaning the solution may cause "phantom errors" to appear about references, but that is simply due to Visual Studio not currently having the files required until the next build.

- 2) Clean run needed. If it is necessary to perform a clean run or new initialization, the most straightforward ways are as follows:
 - a. Emulator: Factory Reset emulator and Start with Factory Defaults
 - b. Multi-use Emulator: Clear the app storage from the AppInfo menu
 - c. Physical Device: Remove all app data