



12/8/2020

APP USER Guide

A-Z Learn LMS Application

Cohort 4.2
TECHCARRERS

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Introduction

This document is a user guide that will help AZ Learn LMS users to smoothly operate the web application. AZ Learn is a one-stop-shop for Cohort, Courses, HomeWorks, Students Timesheet and Grades management.

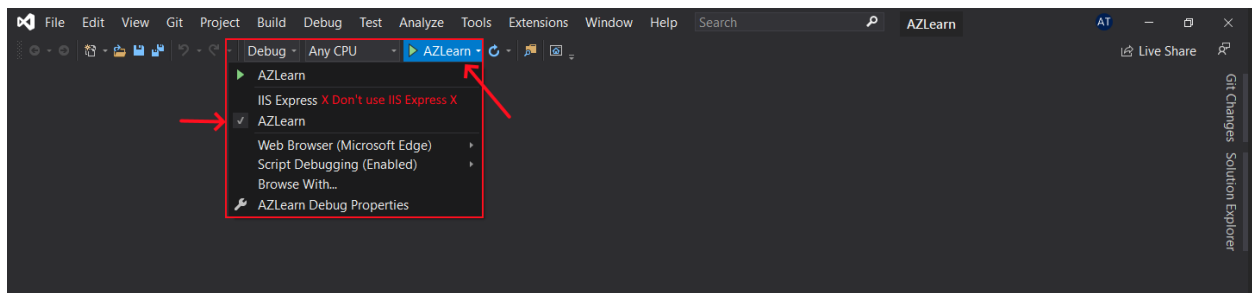
Please kindly note that the project is available for download from below GitHub Repo, where installation instructions and other project documentations are available including README.md file.

Project GitHub Repo: [TECHCareers-by-Manpower/capstone-project-a-to-z: capstone-project-a-to-z created by GitHub Classroom](https://github.com/TECHCareers-by-Manpower/capstone-project-a-to-z)

Start Up

Once the web application is installed as per the Installation Guide found in GitHub Repo \Project_Documentation\ApplInstallation_Instructions folder.

Start the application using Visual Studio Community 2019 using AZLearn. It may take a couple of minutes for the application to start due to dependencies installations.



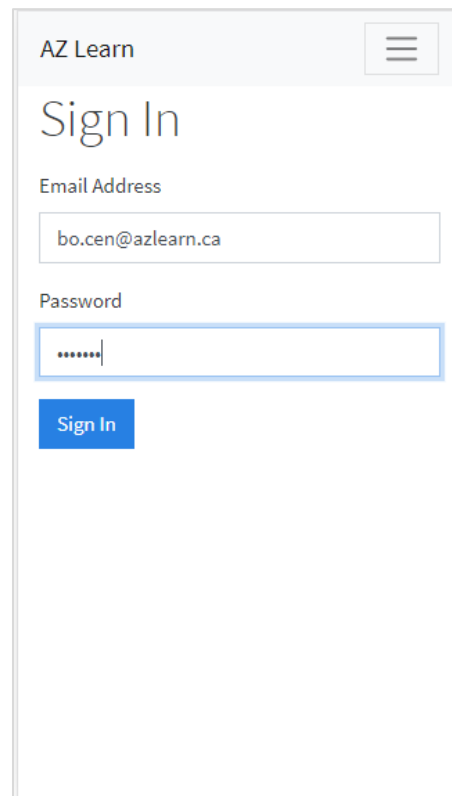
This application has two main dashboards:

- **Instructor** (Admin Role) Dashboard
- **Student** Dashboard

Instructor Dashboard

Login Screen

The screenshot below shows the application sign in page for an instructor (system admin or program admin), in this screen, the instructor signs in using his/her email address and password (e.g., Email: bo.cen@azlearn.ca Password: abc.123) as shown in Fig1.



The screenshot shows a web application interface for 'AZ Learn'. At the top left, the text 'AZ Learn' is displayed next to a hamburger menu icon. The main heading is 'Sign In'. Below this, there are two input fields: 'Email Address' containing the text 'bo.cen@azlearn.ca' and 'Password' containing six dots. A blue 'Sign In' button is positioned below the password field.

Figure 1 Log in Screen for Instructor

Once the instructor is logged in, he/she has several privileges that can be accessed from this main dashboard i.e., Cohort Summary Screen

Cohort Summary Screen (Read)

Here, the instructor can view list of active cohorts with its details like capacity, city, start date, end date, and mode of teaching. On this screen, instructor have privileges to create, read, update, archive a cohort, manage courses for a particular cohort and register an instructor or a student. The functionality of each action will be described in following sections.

AZ Learn	Cohorts	Register Users	Manage Course	Hello Bo Cen LogOut		
Cohort Name	Capacity	Mode	Start Date	End Date	City	Actions
Cohort 4.0	40	In-person	2020-02-01	2020-08-31	Edmonton	Edit Archive
Cohort 4.1	20	Remote	2020-07-01	2020-12-31	Edmonton	Edit Archive
Cohort 4.2	20	Remote	2020-08-04	2021-01-31	Edmonton	Edit Archive
Back	Manage Course			Register Users	Create Cohort	

Figure 2 Cohort Summary

Register Users

By clicking the **Register Button** or **Register Users** from navigation bar. The instructor can register a new instructor or a student from this view and assign them to a respective cohort.

Register

Name

TestInstructor

✓

Email Address

instructor@azlearn.ca

✓

Password

✓

Cohort

Cohort 4.2

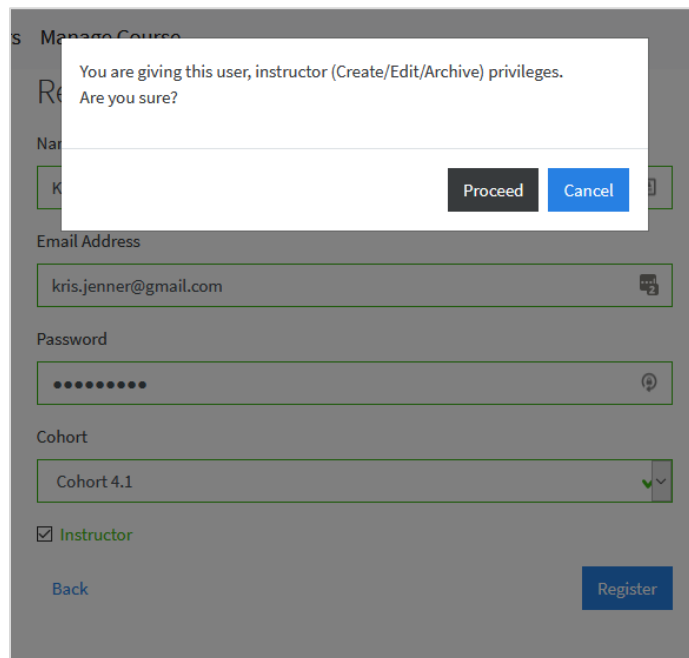
✓

☒ Instructor

[Back](#)[Register](#)

Figure 3 Register a User

In case of instructor registration, and to avoid assigning instructor privileges to a student. The instructor will be requested to respond to A **Confirmation - Warning** message to confirm assigning instructor privileges to a new user.

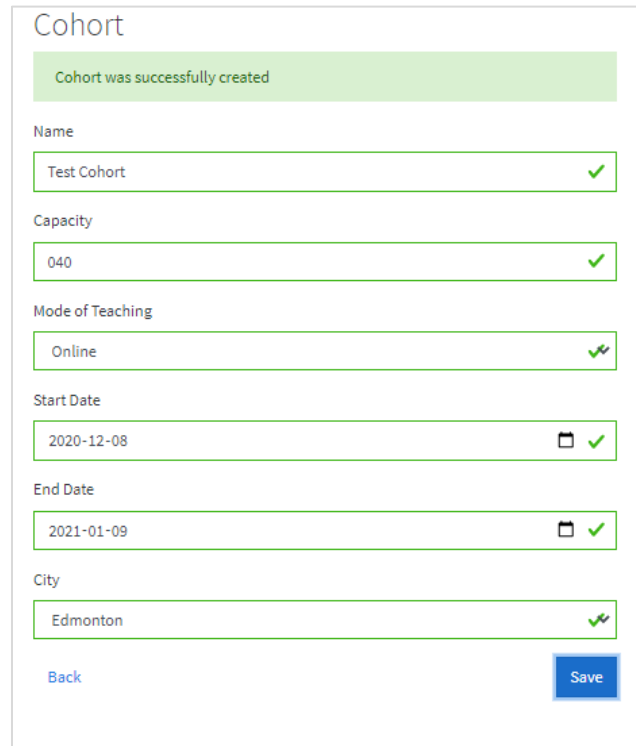


The image shows a web interface for user registration. A modal dialog box is centered on the screen, displaying the text: "You are giving this user, instructor (Create/Edit/Archive) privileges. Are you sure?". Below the text are two buttons: "Proceed" (black) and "Cancel" (blue). The background form is partially visible and includes the following fields: "Email Address" with the value "kris.jenner@gmail.com", "Password" (masked with dots), "Cohort" with a dropdown menu showing "Cohort 4.1", and a checkbox labeled "Instructor" which is checked. At the bottom of the form are "Back" and "Register" buttons.

Figure 4 Assigning Instructor Privileges Warning

Cohort Create

The instructor can create a new cohort by clicking **Create Cohort** button and input the mandatory fields like cohort name, mode of teaching, start date, end date and city as shown below.



The screenshot shows a web form titled "Cohort". At the top, a green banner displays the message "Cohort was successfully created". Below this, the form contains several input fields, each with a green checkmark indicating successful input:

- Name:** Test Cohort
- Capacity:** 040
- Mode of Teaching:** Online
- Start Date:** 2020-12-08
- End Date:** 2021-01-09
- City:** Edmonton

At the bottom left of the form is a blue "Back" button, and at the bottom right is a blue "Save" button.

Figure 5 Cohort Successfully Created

Once a cohort is created the instructor can go back to the **Cohort Summary** view by clicking the **Back** button or hit **Cohorts** in Navigation Bar.

Cohort Edit

In the Cohort Dashboard, by clicking the **Edit** button associated with the cohort the instructor can edit the cohort details.

AZ Learn Cohorts Register Users Manage Course						Hello Bo Cen LogOut
Cohort Name	Capacity	Mode	Start Date	End Date	City	Actions
Cohort4.0	40	In-person	2020-02-01	2020-08-31	Edmonton	Edit Archive
Cohort4.1	20	Remote	2020-07-01	2020-12-31	Edmonton	Edit Archive
Cohort4.2	20	Remote	2020-08-04	2021-01-31	Edmonton	Edit Archive
Test Cohort	40	Online	2020-12-08	2021-01-09	Edmonton	Edit Archive
Back				Manage Course	Register Users	Create Cohort

Figure 6 Cohort Summary

Once Edit is clicked the existing details of the cohort are populated and user can update the cohort information and save, a success message will show once cohort information is updated.

Cohort

Cohort details were successfully updated

Cohort Name

Cohort4.1

✓

Capacity

50

✓

Mode of Teaching

In Person

✓

Start Date

2020-12-04

📅 ✓

End Date

2020-12-24

📅 ✓

City

Calgary

✓

Back

Save

Figure 7 Cohort Updated Successfully

Cohort Archived

The user can also archive a particular cohort by simply selecting **Archive** action associated with specific cohort name. once the Archive button is clicked a warning - confirmation message will request archive action confirmation. Clicking Yes, will result in archiving the cohort and will not show in the summary screen.

Cohort Name	Capacity	Mode	Start Date	End Date	City	Actions
Cohort 4.0	40	In-person	2020-02-01	2020-08-31	Edmonton	Edit Archive
Cohort 4.1	20	Remote	2020-07-01	2020-12-31	Edmonton	Edit Archive
Cohort 4.2	20	Remote	2020-08-04	2021-01-31	Edmonton	Edit Archive
Test Cohort	40	Online	2020-12-08	2021-01-09	Edmonton	Edit Archive
Back			Manage Course Register Users Create Cohort			

Figure 8 Cohort Summary Archive

Archive: Are you sure?

Figure 9 Archive Warning - Confirmation

Manage Course

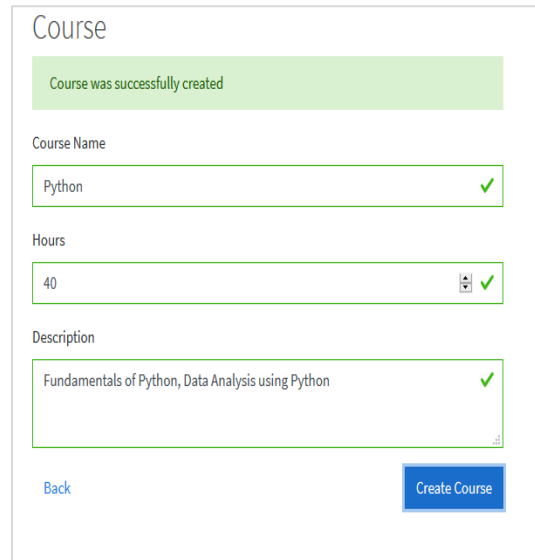
The **Manage Course** button in Cohort Summary screen allows the instructor to show a list of all available courses. From the Manage Course view the instructor can create, edit, and archive a course which are explained in below sections.

AZ Learn Cohorts Register Users Manage Course				Hello Bo Cen	Logout
Course Name	Description	Duration	Actions		
C# Introduction	Introduction to C# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	24	Edit Archive		
Version Control Using Git	Software code base version control management using git and github environment	3.75	Edit Archive		
HTML/CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements, web controls, forms and basic validation	2.5	Edit Archive		
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Edit Archive		
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	15.75	Edit Archive		
Reactjs	Basic Intro; install NPM; create-react-app; Components, Props, Events and State	8.75	Edit Archive		
React-Redux	Actions, Reducers, Store and React-Router-Dom	3.75	Edit Archive		
PHP	Basics, Global, Forms, Post, Get, Session, OOP, JSON and Files and API	16.5	Edit Archive		
WordPress	WordPress Introduction, WordPress Custom Theme and Plugin	16.15	Edit Archive		
Database SQL	ERD, Tables, Insert, Select, Join, Subquery, update and delete	19.25	Edit Archive		
C# OOP	Syntax, Decisions, Iteration, Collections, Functions and Exceptions. OOP Properties, Methods, Constructors, Inheritance, Polymorphism. XUnit Theories and Facts. Collections and LINQ. Entity Framework Database First and Code First	30.25	Edit Archive		
DotNet Core	MVC Core with EF, MVC Core with Static List, Business Logic and Validation, Security and Filtering, API, Reactjs with DotNet Core	22.5	Edit Archive		
Milestone Project 1	Milestone project at the end of each major series of courses - Programming basics conclusion	40	Edit Archive		
Milestone Project 2	Milestone project at the end of each major series of courses (React/Redux) - Frontend conclusion	40	Edit Archive		
Capstone Project	Program conclusion project	120	Edit Archive		
Back				Create Course	

Figure 10 Manage Course

Course Create

The instructor can create a course by clicking **Create Course** button and input the required fields like course name, description, and duration then click create course. The created course will be added to the manage course screen. Once finished, as success message will be shown, otherwise error message with error details. To go back click the **Back** button to navigate to courses dashboard.



The screenshot shows a web form titled "Course". At the top, a green message box states "Course was successfully created". Below this, there are three input fields, each with a green checkmark indicating successful validation:

- Course Name:** A text input field containing the word "Python".
- Hours:** A numeric input field containing the value "40".
- Description:** A text area containing the text "Fundamentals of Python, Data Analysis using Python".

At the bottom of the form, there are two buttons: a blue "Back" button on the left and a blue "Create Course" button on the right.

Figure 11 Course Created Successfully

Course Edit

From the courses' dashboard, the instructor can update course information by clicking **Edit** button associate with specific course.

AZ Learn Cohorts Register Users Manage Course			Hello Bo Cen	LogOut
Course Name	Description	Duration	Actions	
C# Introduction	Introduction to C# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	24	Edit Archive	
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	Edit Archive	
HTML/CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	Edit Archive	
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Edit Archive	
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	13.75	Edit Archive	
React.js	Basic Intro; Install NPM; create-react-app, Components, Props, Events and State	8.75	Edit Archive	
React-Redux	Actions, Reducers, Store and React-Router-Dom	3.75	Edit Archive	
PHP	Basics, Global, Forms, Post, Get, Session, OOP, JSON and Files and API	16.5	Edit Archive	
WordPress	WordPress Introduction, WordPress Custom Theme and Plugin	16.15	Edit Archive	

Figure 12 Manage Course Edit

Once Edit is clicked the existing details of the course are populated and can be updated the submitted. The below screen would appear once course information is updated successfully, otherwise error message with error details would be shown.

Course

Course was successfully updated

Course Name

C# Introduction Day1 ✓

Hours

15 ✓

Description

Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control ✓

[Back](#) [Save](#)

Figure 13 Course Updated Successfully

Course Archived

The instructor can archive a particular course by simply clicking **Archive** action associated with course name. as shown below.

AZ Learn	Cohorts	Register Users	Manage Course	Hello Bo Cen	LogOut
Course Name	Description	Duration	Actions		
C# Introduction	Introduction to C# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	24	Edit Archive		
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	Edit Archive		
HTML/CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	Edit Archive		
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Edit Archive		
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	15.75	Edit Archive		
Reactjs	Basic Intro; Install NPM; create-react-app, Components, Props, Events and State	8.75	Edit Archive		

Figure 14 Course Archive

once the Archive button is clicked the instructor will receive a warning - confirmation before archiving a course. If Yes, is selected, the course will be archived, and removed from courses dashboard.

Archive: Are you sure?

Figure 15 Archive Confirmation

Course Assign (Create)

The instructor can also assign a particular course to a specific cohort by selecting cohort from Cohort Summary screen then click **Add Course**.

Cohort Name	Capacity	Mode	Start Date	End Date	City	Actions
Cohort 4.0	40	In-person	2020-02-01	2020-08-31	Edmonton	Edit Archive
Cohort 4.1	20	Remote	2020-07-01	2020-12-31	Edmonton	Edit Archive
Cohort 4.2	20	Remote	2020-08-04	2021-01-31	Edmonton	Edit Archive
Back			Manage Course Register Users Create Cohort			

Figure 16 Cohort Summary Screen

Course Name	Description	Duration	Instructor	Homework	Actions
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	15	James Grieve	Homework	Edit Remove
Back				Add Course	

Figure 17 Course Assign to a Cohort

Note: Course assign will display only the active courses so instructor can only assign existing courses without having to worry about the retired ones.

Course

Course was successfully assigned

Course Name

HTML\CSS Fundamentals ✓✓

Instructor

James Grieve ✓✓

Start Date

2020-12-06 📅 ✓

End Date

2021-01-01 📅 ✓

Hours

Description

Resource Link

https://www.w3schools.com/html/default.asp ✓

[Back](#)

Save

Figure 18 Course Assigned Successfully

Course Assign Update

The instructor needs to first select a particular cohort name where he/she would like to update,

Cohort Name	Capacity	Mode	Start Date	End Date	City	Actions
Cohort 4.0	40	In-person	2020-02-01	2020-08-31	Edmonton	Edit Archive
Cohort 4.1	20	Remote	2020-07-01	2020-12-31	Edmonton	Edit Archive
Cohort 4.2	20	Remote	2020-08-04	2021-01-31	Edmonton	Edit Archive
Back			Manage Course Register Users Create Cohort			

Figure 19 Cohort Summary Screen

A list of courses (course summary) that were assigned for that cohort would be displayed. The user can select edit button for whichever course that he/she would like to update by clicking edit button which is present in Action column of that screen as shown below:

AZ Learn Cohorts Register Users Manage Course				Hello Bo Cen LogOut	
Course Name	Description	Duration	Instructor	Homework	Actions
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	15	James Grieve	Homework	Edit Remove
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	James Grieve	Homework	Edit Remove
HTML\CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	James Grieve	Homework	Edit Remove
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Warren Uhrich	Homework	Edit Remove
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	15.75	Warren Uhrich	Homework	Edit Remove
Reactjs	Basic Intro; Install NPM; create-react-app, Components, Props, Events and State	8.75	Warren Uhrich	Homework	Edit Remove
React-Redux	Actions, Reducers, Store and React-Router-Dom	3.75	Warren Uhrich	Homework	Edit Remove

Figure 20 Course Summary Screen

Existing details of the course will be prepopulated, and user can update the required fields such as dates, instructor name, description and resource link and save to update the details of the course as shown below:

Course

Assigned Cohort was successfully updated

Course Name

C# Introduction

Instructor

Aaron Champagne ✓

Start Date

2020-12-22 📅 ✓

End Date

2020-12-31 📅 ✓

Hours

24

Description

Introduction to C# syntax, keywords, variables, cc

Resource Link

✓

[Back](#)[Save](#)

Figure 21 Course Assign Update Successful

Course Assign (Archive)

The user can also archive a particular course that does not exist anymore to keep the view clean for other instructors by simply selecting **Archive** action beside Course name. as shown below. Once the Archive button is selected the course is archived from the view.

Cohort 4.2					
Course Name	Description	Duration	Instructor	Homework	Actions
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	1.5	James Grieve	Homework	Edit Archive
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	James Grieve	Homework	Edit Archive
HTML/CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	James Grieve	Homework	Edit Archive
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Warren Uhrich	Homework	Edit Archive
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	15.75	Warren Uhrich	Homework	Edit Archive
Reactjs	Basic Intro; Install NPM; create-react-app, Components, Props, Events and State	8.75	Warren Uhrich	Homework	Edit Archive
React-Redux	Actions, Reducers, Store and React-Router-Dom	3.75	Warren Uhrich	Homework	Edit Archive
PHP	Basics, Global, Forms, Post, Get, Session, OOP, JSON and Files and API	16.5	Warren Uhrich	Homework	Edit Archive
WordPress	WordPress Introduction, WordPress Custom Theme and Plugin	16.15	Warren Uhrich	Homework	Edit Archive
Database SQL	ERD, Tables, Insert, Select, Join, Subquery, update and delete	19.25	Tammy Valgardson	Homework	Edit Archive
C# OOP	Syntax, Decisions, Iteration, Collections, Functions and Exceptions. OOP Properties, Methods, Constructors, Inheritance, Polymorphism. XUnit Theories and Facts. Collections and LINQ. Entity Framework Database First and Code First	30.25	James Grieve	Homework	Edit Archive

Figure 22 Course assign Archive

Homework View/Read

The instructor can create, read, update, archive a homework (i.e., homework can be a practice or graded assignment) by first selecting the cohort from the main dashboard (Cohort Summary) then assign/view a homework as shown below.

Cohort Name	Capacity	Mode	Start Date	End Date	City	Actions
Cohort 4.0	40	In-person	2020-02-01	2020-08-31	Edmonton	Edit Archive
Cohort 4.1	20	Remote	2020-07-01	2020-12-31	Edmonton	Edit Archive
Cohort 4.2	20	Remote	2020-08-04	2021-01-31	Edmonton	Edit Archive
Back			Manage Course Register Users Create Cohort			

Figure 23 Cohort Summary

Once cohort is selected, the instructor can select a course to which he is willing to see the homework associated with it.

AZ Learn Cohorts Register Users Manage Course

Hello Bo Cen LogOut

Cohort 4.2

Course Name	Description	Duration	Instructor	Homework	Actions
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	15	James Grieve	Homework	Edit Archive
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	James Grieve	Homework	Edit Archive
HTML\CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	James Grieve	Homework	Edit Archive
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Warren Uhrich	Homework	Edit Archive
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	15.75	Warren Uhrich	Homework	Edit Archive
Reactjs	Basic Intro; Install NPM; create-react-app, Components, Props, Events and State	8.75	Warren Uhrich	Homework	Edit Archive
React-Redux	Actions, Reducers, Store and React-Router-Dom	3.75	Warren Uhrich	Homework	Edit Archive

Figure 24 Course Summary Screen

A list of all homework related to the selected course is displayed as shown below.

AZ Learn Cohorts Register Users Manage Course				Hello Bo Cen LogOut		
C# Introduction Day1 Version Control Using Git HTML/CSS Fundamentals CSS Advanced JavaScript Fundamentals Reactjs React-Redux PHP WordPress Database SQL C# OOP DotNet Core	Homework Name	Due Date	Release Date	GitHub	Category	Actions
	Hello World, Hello User, Hello Everybody	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Introduction - Decisions, Iteration & Encapsulation	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Grade Translator Practice	2020-08-12T09:00:00	2020-08-11T12:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Letter Remover Practice	2020-08-13T09:00:00	2020-08-12T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Odd/Even Sorter Practice	2020-08-14T09:00:00	2020-08-13T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Assignment - CRUD	2020-08-17T09:00:00	2020-08-14T12:00:00	GitHubLink	Assignment	Grades Details/Edit Archive
	Back					
						Create

Figure 25 Homework Summary for a Course

Homework Create

The instructor can create some homework from the same screen by clicking **Create** option and input the required fields.

Homework

Title
Test Homework for C# ✓

Course
C# Introduction Day1 ✓

Instructor
Warren Uhrich ✓

Avg Completion Time
30 ✓

Release Date
2020-12-09 ✓

Due Date
2020-12-31 ✓

DocLink
example: https://www.google.com ✓

GitHubLink
example: https://www.google.com ✓

Back Save

Figure 26 Homework Created Successfully

The homework would be added to the list of homework's for that course as shown below.

C# Introduction Day1	Homework Name	Due Date	Release Date	GitHub	Category	Actions
Version Control Using Git	Hello World, Hello User, Hello Everybody	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
HTML\CSS Fundamentals	C# Introduction - Decisions, Iteration & Encapsulation	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
CSS Advanced	C# Grade Translator Practice	2020-08-12T09:00:00	2020-08-11T12:00:00	GitHubLink	Practice	Grades Details/Edit Archive
JavaScript Fundamentals	C# Letter Remover Practice	2020-08-13T09:00:00	2020-08-12T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
Reactjs	C# Odd/Even Sorter Practice	2020-08-14T09:00:00	2020-08-13T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
React-Redux	C# Assignment - CRUD	2020-08-17T09:00:00	2020-08-14T12:00:00	GitHubLink	Assignment	Grades Details/Edit Archive
PHP	Test Homework For C#	2020-12-31T00:00:00	2020-12-09T00:00:00	GitHubLink	Assignment	Grades Details/Edit Archive
WordPress						
Database SQL						
C# OOP						
DotNet Core						
Milestone Project 1	Back					Create

Figure 27 Successfully Added Homework to a Course

Homework Read/Edit

The instructor can update the homework details by clicking **Details / Edit** button which is in the action column for the desired homework.

C# Introduction Day1	Homework Name	Due Date	Release Date	GitHub	Category	Actions
Version Control Using Git	Hello World, Hello User, Hello Everybody	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
HTML\CSS Fundamentals	C# Introduction - Decisions, Iteration & Encapsulation	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
CSS Advanced	C# Grade Translator Practice	2020-08-12T09:00:00	2020-08-11T12:00:00	GitHubLink	Practice	Grades Details/Edit Archive
JavaScript Fundamentals	C# Letter Remover Practice	2020-08-13T09:00:00	2020-08-12T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
Reactjs	C# Odd/Even Sorter Practice	2020-08-14T09:00:00	2020-08-13T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
React-Redux	C# Assignment - CRUD	2020-08-17T09:00:00	2020-08-14T12:00:00	GitHubLink	Assignment	Grades Details/Edit Archive
PHP	Test Homework For C#	2020-12-31T00:00:00	2020-12-09T00:00:00	GitHubLink	Assignment	Grades Details/Edit Archive
WordPress						
Database SQL						
C# OOP						
DotNet Core						
Milestone Project 1	Back					Create

Figure 28 Homework Summary Screen for a Course

Homework

Title

Hello world

Course

C# Introduction Day1

Instructor

Bo Cen

Avg Completion Time

30

Due Date

2020-12-08

Release Date

2020-12-24

DocLink

https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide

GitHubLink

https://github.com/test.com

[Back](#)[Save](#)

Figure 29 Homework Read/Update

Homework Archive

The instructor can also archive a particular homework by simply clicking **Archive** action beside the homework name, as shown below.

AZ Learn Cohorts Register Users Manage Course				Hello Bo Cen LogOut		
C# Introduction Day1 Version Control Using Git HTML\CSS Fundamentals CSS Advanced JavaScript Fundamentals Reactjs React-Redux PHP WordPress Database SQL C# OOP DotNet Core Milestone Project 1 Milestone Project 2	Homework Name	Due Date	Release Date	GitHub	Category	Actions
	Hello World, Hello User, Hello Everybody	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Introduction - Decisions, Iteration & Encapsulation	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Grade Translator Practice	2020-08-12T09:00:00	2020-08-11T12:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Letter Remover Practice	2020-08-13T09:00:00	2020-08-12T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Odd/Even Sorter Practice	2020-08-14T09:00:00	2020-08-13T09:00:00	GitHubLink	Practice	Grades Details/Edit Archive
	C# Assignment - CRUD	2020-08-17T09:00:00	2020-08-14T12:00:00	GitHubLink	Assignment	Grades Details/Edit Archive
	Test Homework For C#	2020-12-31T00:00:00	2020-12-09T00:00:00	GitHubLink	Assignment	Grades Details/Edit Archive
	Back					
						Create

Figure 30 Course summary screen

once the Archive button is clicked the instructor will receive a warning - confirmation to archive the course. If Yes, is selected, the homework will be archived and removed from the homework summary for the course.

Archive: Are you sure?

NoYes

Figure 31 Archive Confirmation

Grade /Timesheet View

The instructor has privileges to view the grades and average time spent on a particular assignment per each student, that can be helpful analyzing the difficulty level of each assignment. That can help in determining which student has performed exceptionally well and which student needs support. This view can be generated by first selecting a cohort from main dashboard, then navigating to a particular course and then associated homework.

Cohort Name	Capacity	Mode	Start Date	End Date	City	Actions
Cohort 4.0	40	In-person	2020-02-01	2020-08-31	Edmonton	Edit Archive
Cohort 4.1	20	Remote	2020-07-01	2020-12-31	Edmonton	Edit Archive
Cohort 4.2	20	Remote	2020-08-04	2021-01-31	Edmonton	Edit Archive
Back					Create Cohort	Register Users Manage Course

Figure 32 Cohort Summary Screen

Cohort 4.2						
Course Name	Description	Duration	Instructor	Homework	Actions	
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	15	James Grieve	Homework	Edit Archive	
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	James Grieve	Homework	Edit Archive	
HTML\CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	James Grieve	Homework	Edit Archive	

Figure 33 Course Summary for a Cohort

From the list of homework's for a particular course, select a particular homework and click **Grades** for which you would like to see the grades or average time spent by each student.

AZ Learn Cohorts Register Users Manage Course							Hello Bo Cen	LogOut
C# Introduction Day1	Homework Name	Due Date	Release Date	GitHub	Category	Actions		
Version Control Using Git	Hello World, Hello User, Hello Everybody	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive		
HTML\CSS Fundamentals	C# Introduction - Decisions, Iteration & Encapsulation	2020-08-10T09:00:00	2020-07-27T15:00:00	GitHubLink	Practice	Grades Details/Edit Archive		
CSS Advanced JavaScript Fundamentals	C# Grade Translator Practice	2020-08-12T09:00:00	2020-08-11T12:00:00	GitHubLink	Practice	Grades Details/Edit Archive		

Figure 34 Homework Summary for a course

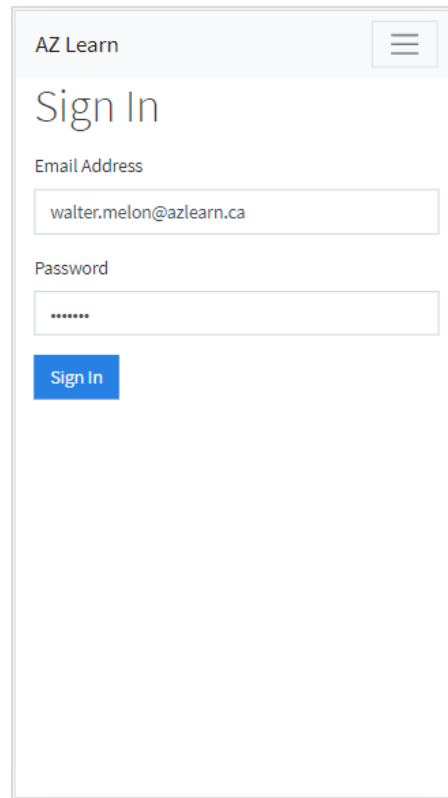
AZ Learn	Cohorts	Register Users	Manage Course	Hello Bo Cen		Log
Hello World, Hello User, Hello Everybody C# Introduction - Decisions, Iteration & Encapsulation C# Grade Translator Practice C# Letter Remover Practice C# Odd/Even Sorter Practice C# Assignment - CRUD Test Homework For C#	Student Name		Requirements Marks	Challenges Marks	Total Marks	Total Time
	Mario Speedwagon		1/1	0/0	1	4.75
	Petey Cruiser		1/1	0/0	1	6.5
	Anna Sthesia		1/1	0/0	1	6.5
	Paul Molive		1/1	0/0	1	6.75
	Anna Mull		1/1	0/0	1	7
	Gail Forcewind		1/1	0/0	1	7.5
	Paige Turner		1/1	0/0	1	5
	Bob Frapples		1/1	0/0	1	5.75
	Walter Melon		1/1	0/0	1	5.25
	Nick R. Bocker		1/1	0/0	1	7.75
	Barb Ackue		1/1	0/0	1	7.25
	Buck Kinnear		1/1	0/0	1	6.5
	Greta Life		1/1	0/0	1	6
	Ira Membrit		1/1	0/0	1	8
	Shonda Leer		1/1	0/0	1	7.75
	Brock Lee		1/1	0/0	1	6
	Maya Didas		1/1	0/0	1	7.25
	Rick OShea		1/1	0/0	1	6.75

Figure 35 Grades for a Particular Homework

Student Dashboard

Login Screen

Below screen shot shows the application homepage, in this page, a student can sign-in using student email address and password (Ex: Email: walter.melon@azlearn.ca Password: abc.123) as shown below



AZ Learn

Sign In

Email Address

walter.melon@azlearn.ca

Password

Sign In

Figure 36 Login Screen for Student

Once the student is Logged in, the student has very limited privileges that can be accessed from this main dashboard i.e., Course Summary Screen

Course Summary Screen (Read)

Here, the student can view list of courses that are offered for his/her cohort with details like approximate duration for the course, instructor name, and homework's pertaining to that course. The functionality of each action has been described in below sections.

AZ Learn Courses		Hello Walter Melon LogOut		
Course Name	Description	Duration	Instructor	Homework
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	15	James Grieve	Homework
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	James Grieve	Homework
HTML\CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	James Grieve	Homework
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Warren Uhrich	Homework
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	15.75	Warren Uhrich	Homework
Reactjs	Basic Intro; Install NPM; create-react-app, Components, Props, Events and State	8.75	Warren Uhrich	Homework
React-Redux	Actions, Reducers, Store and React-Router-Dom	3.75	Warren Uhrich	Homework
PHP	Basics, Global, Forms, Post, Get, Session, OOP, JSON and Files and API	16.5	Warren Uhrich	Homework
WordPress	WordPress Introduction, WordPress Custom Theme and Plugin	16.15	Warren Uhrich	Homework
Database SQL	ERD, Tables, Insert, Select, Join, Subquery, update and delete	19.25	Tammy Valgardson	Homework
C# OOP	Syntax, Decisions, Iteration, Collections, Functions and Exceptions. OOP Properties, Methods, Constructors, Inheritance, Polymorphism. XUnit Theories and Facts. Collections and LINQ. Entity Framework Database First and Code First	30.25	James Grieve	Homework

Figure 37 Course Summary for Student

Homework Read

The student can select the **Homework** option for a particular course and see the list of homework's that were assigned as shown below.

AZ Learn Courses		Hello Walter Melon LogOut		
Course Name	Description	Duration	Instructor	Homework
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	15	James Grieve	Homework
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	James Grieve	Homework
HTML\CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	James Grieve	Homework
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Warren Uhrich	Homework

Figure 38 Homework View Only

The student can also check in the view whether the homework is a practise or a graded assignment and can access GitHub classroom link.

	Homework Name	Due Date	GitHub	Category	Details
C# Introduction Day1	Hello World, Hello User, Hello Everybody	2020-08-10T09:00:00		Practice	View
Version Control Using Git	C# Introduction - Decisions, Iteration & Encapsulation	2020-08-10T09:00:00		Practice	View
HTML\CSS Fundamentals	C# Grade Translator Practice	2020-08-12T09:00:00	https://classroom.github.com/a/OdSgQZd3	Practice	View
CSS Advanced	C# Letter Remover Practice	2020-08-13T09:00:00	https://classroom.github.com/a/zxnEZ6LO	Practice	View
JavaScript Fundamentals	C# Odd/Even Sorter Practice	2020-08-14T09:00:00	https://classroom.github.com/a/TwRRF9c-	Practice	View
Reactjs	C# Assignment - CRUD	2020-08-17T09:00:00	https://classroom.github.com/a/JMHbRDUC	Assignment	View
React-Redux					
PHP					
WordPress					
Database SQL	Test Homework For C#	2020-12-31T00:00:00		Assignment	View
C# OOP					
DotNet Core	Back				

Figure 39 Homework Summary for a particular course

The student can also click View button to see more details of that Homework as shown below.

Homework

Title

Hello World, Hello User, Hello Everybody

Course

C# Introduction Day1

Instructor

James Grieve

Avg Completion Time

8

Due Date

2020-08-10 9:00:00 AM

Release Date

2020-07-27 3:00:00 PM

DocLink

https://drive.google.com/file/d/1HMcsRKsGZcZRZM_vUthfzhMCDjuz0mTD/view?u

GitHubLink

Timesheet

Solving/Troubleshooting

Study/Research

Total

0

Figure 40 Homework Details

Timesheet Update

Once the student has submitted the assignment the student can return to the same screen (i.e., course summary screen as shown below) and update the timesheet for that homework by selecting the homework which was assigned, and then log the time spent during solving and study for the homework.

AZ Learn Courses		Hello Walter Melon LogOut		
Course Name	Description	Duration	Instructor	Homework
C# Introduction Day1	Introduction to c# syntax, keywords, variables, control flow, comments, errors, exceptions, bugs and version control	15	James Grieve	Homework
Version Control Using Git	Software code base version control management using git and GitHub environment	3.75	James Grieve	Homework
HTML\CSS Fundamentals	HTML5 fundamentals, semantic tags, semantic Elements , web controls, forms and basic validation	2.5	James Grieve	Homework
CSS Advanced	Theory, syntax, colors, selectors, attributes and layout models (box model, grid, etc.).	8.25	Warren Uhrich	Homework
JavaScript Fundamentals	Variables, Strings, Functions, DOM, Events, API, Postman, AJAX, Fetch, JSON, Classes and Objects	15.75	Warren Uhrich	Homework

Figure 41 Course Summary for Student

	Homework Name	Due Date	GitHub	Category	Details
C# Introduction Day1	Hello World, Hello User, Hello Everybody	2020-08-10T09:00:00		Practice	View
Version Control Using Git	C# Introduction - Decisions, Iteration & Encapsulation	2020-08-10T09:00:00		Practice	View
HTML\CSS Fundamentals	C# Grade Translator Practice	2020-08-12T09:00:00	https://classroom.github.com/a/Od5gQQd3	Practice	View
CSS Advanced	C# Letter Remover Practice	2020-08-13T09:00:00	https://classroom.github.com/a/zxnEZ6LO	Practice	View
JavaScript Fundamentals	C# Odd/Even Sorter Practice	2020-08-14T09:00:00	https://classroom.github.com/a/TwRRF9c-	Practice	View
Reactjs	C# Assignment - CRUD	2020-08-17T09:00:00	https://classroom.github.com/a/jMHbRDUC	Assignment	View
React-Redux					
PHP					
WordPress					
Database SQL	Test Homework For C#	2020-12-31T00:00:00		Assignment	View
C# OOP					
DotNet Core	Back				
Milestone Project 1					
Milestone Project 2					

Figure 42 Homework Summary for a course

Homework

Title

Hello World, Hello User, Hello Everybody

Course

C# Introduction Day1

Instructor

James Grieve

Avg Completion Time

8

Due Date

2020-08-10 9:00:00 AM

Release Date

2020-07-27 3:00:00 PM

DocLink

https://drive.google.com/file/d/1HMcsRK8GZcZRZM_vUthfzhMCDjuz0mTD/view?u

GitHubLink

Timesheet

Solving/Troubleshooting

Study/Research

Total

0

Figure 43 Timesheet Update for a Homework

End of document