12/8/2020

APP USER Guide

A-Z Learn LMS Application

Cohort 4.2
TECHCARRERS

Contents

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*

Start Up

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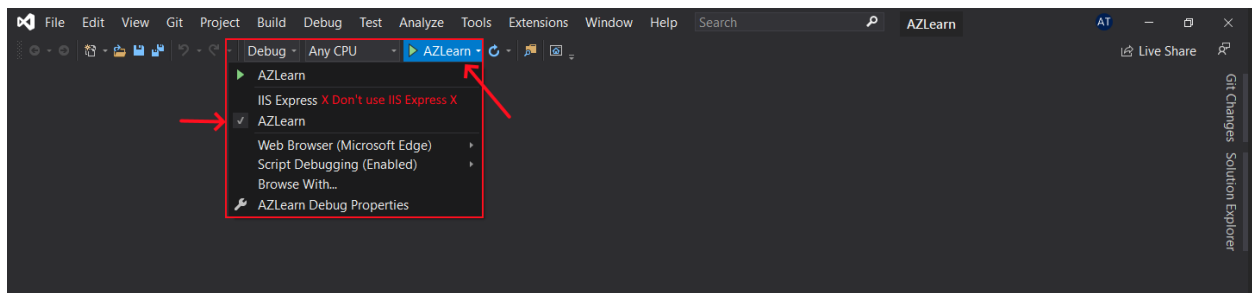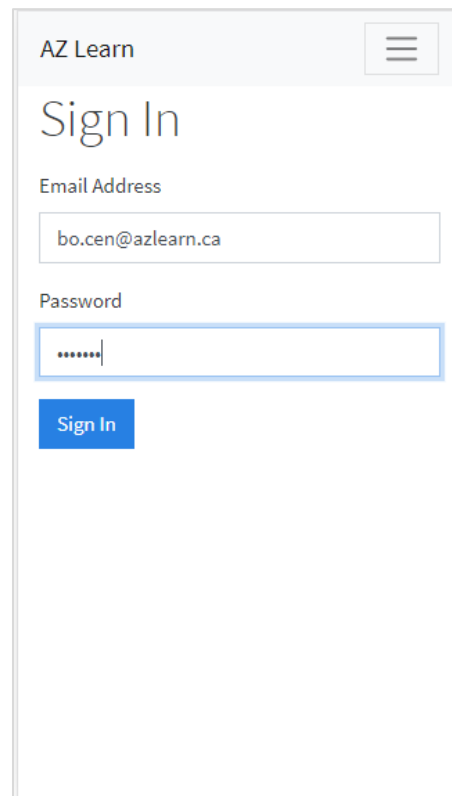

This application has two main dashboards:

- **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.

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.

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

AZ Learn   Cohorts   Register Users   Manage Course   Hello Bo Cen   LogOut

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

•••••••••••• ✓
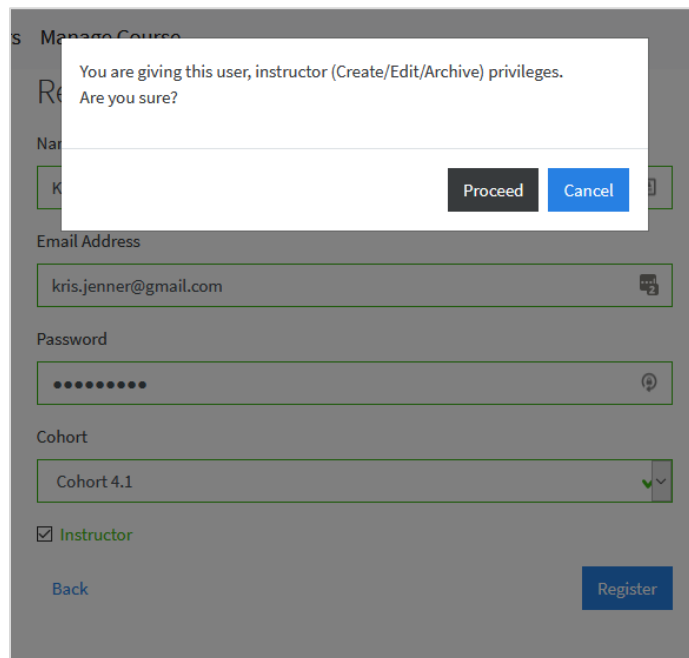
Cohort

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.
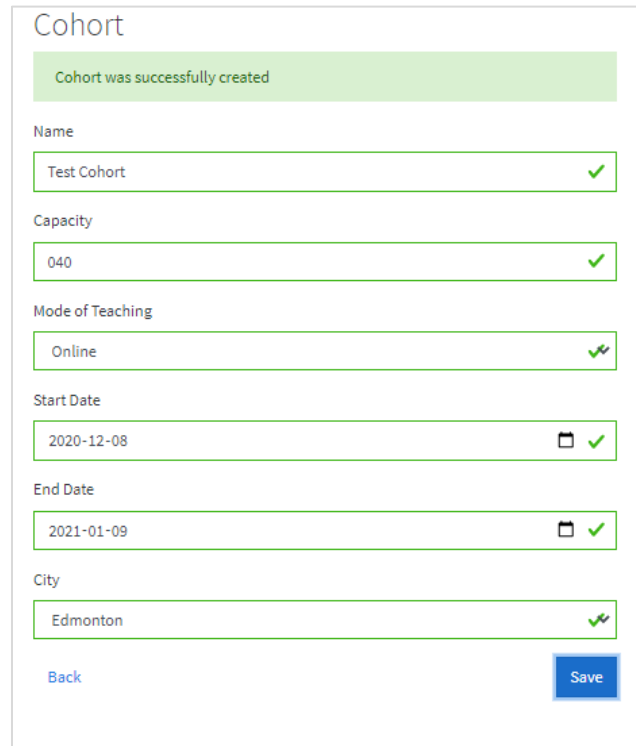

Figure 4 Assigning Instructor Privileges Warning

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.

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.

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.

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?

No   Yes

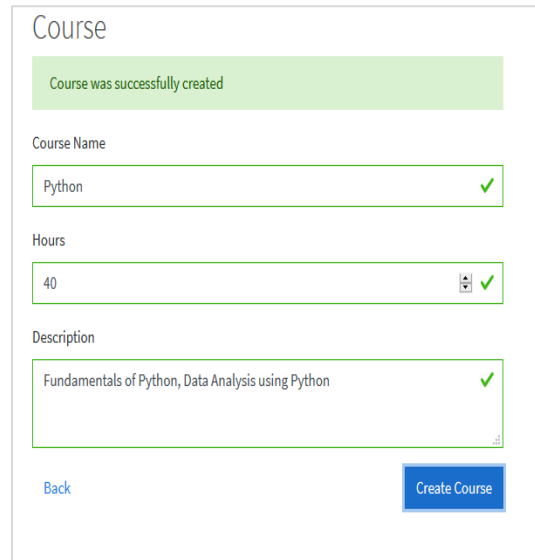**Figure 9 Archive Warning - Confirmation**

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.

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.

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.

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.

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.

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.

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.

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.

Course Name	Description	Duration	Instructor	Homework	Actions
Cohort 4.2					
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
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.

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.

Figure 26 Homework Created Successfully

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

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.

Figure 28 Homework Summary Screen for a Course

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.

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.

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

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

Figure 34 Homework Summary for a course
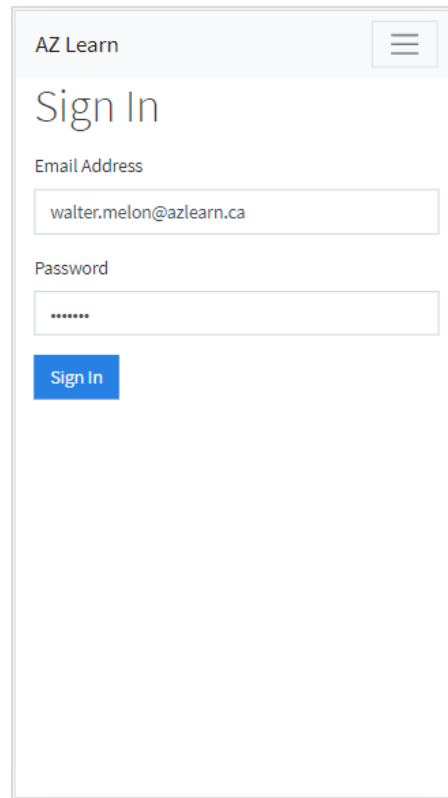
Student Name	Requirements Marks	Challenges Marks	Total Marks	Total Time
Mario Speedwagon	1/1	0/0	1	4.75
Petey Cruiser	1/1	0/0	1	6.5
Anna Sthesia	1/1	0/0	1	6.5
Paul Molive	1/1	0/0	1	6.75
Anna Mull	1/1	0/0	1	7
Gail Forcewind	1/1	0/0	1	7.5
Paige Turner	1/1	0/0	1	5
Bob Frapples	1/1	0/0	1	5.75
Walter Melon	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

The left navigation panel lists:
- 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#

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

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.

Course Name	Description	Duration	Instructor	Homework
AZ Learn Courses			Hello Walter Melon	LogOut
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.

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.

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/1HMcsRK8GZcZRZM_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.

Figure 41 Course Summary for Student

Figure 42 Homework Summary for a course

Figure 43 Timesheet Update for a Homework

End of document