



The Teaching Portal

Building content for the busy educator

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Database & Dynamic Web Programming

Professor Leong
ITGM 727
Summer 2020

Create new account

<input type="text"/>	Enter First Name	<input type="text"/>	Enter Last Name
<input type="text"/>			
Enter Email	<input type="text"/>		
<input type="text"/>			
Enter Password	<input type="text"/>		
Verify Password	<input type="text"/>		

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[Login](#) | [Register](#)

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Create new account

<input type="text"/>	<input type="text" value="Enter First Name"/>	<input type="text"/>	<input type="text" value="Enter Last Name"/>
<input type="text" value="Enter Username"/>		<input type="text"/>	
<input type="text" value="Enter Email"/>		<input type="text"/>	
<input type="text" value="Verify Email"/>		<input type="text"/>	
<input type="text" value="Enter Password"/>		<input type="text"/>	
<input type="text" value="Verify Password"/>		<input type="text"/>	

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The Teaching Portal

An online website where users can upload, retrieve, and view files and lesson plans for instructional purposes

Why the portal

I was looking online for a web solution where I can safely store and upload my instructional content. Such a platform will be useful for my business. I didn't trust the services I found, so I made one

Users Can

- Upload Course Content
- Retrieve Course Content
- View Lesson Plans + Material
- Assign Roles
- Assign Courses to Teachers



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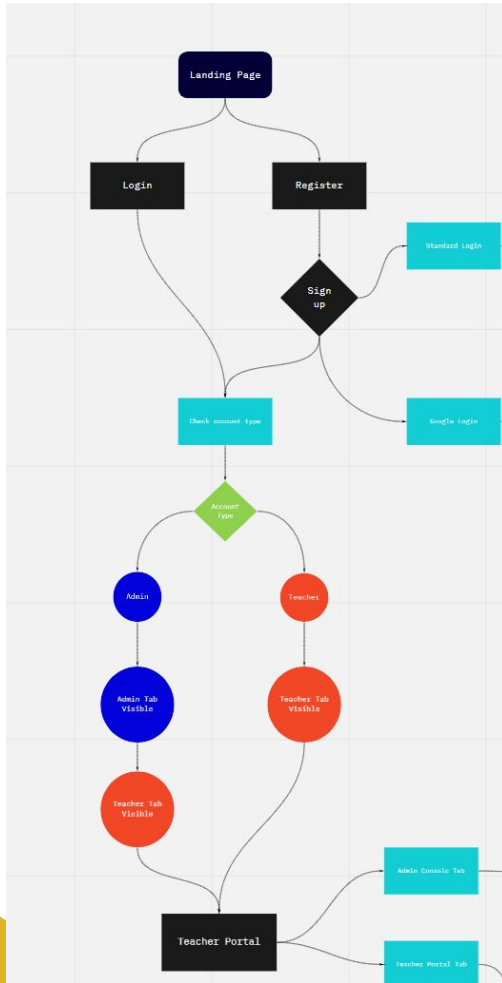
Flowcharts & Plans

Create new account

<input type="text"/>	<input type="text"/>
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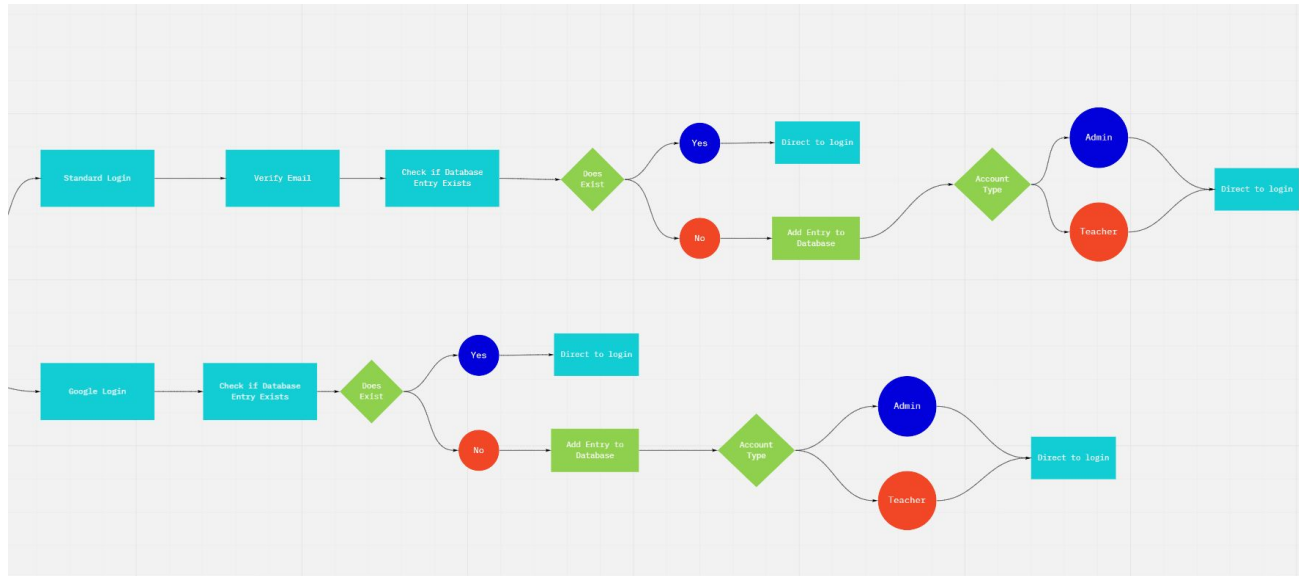
[Login Here](#)

[Submit](#)

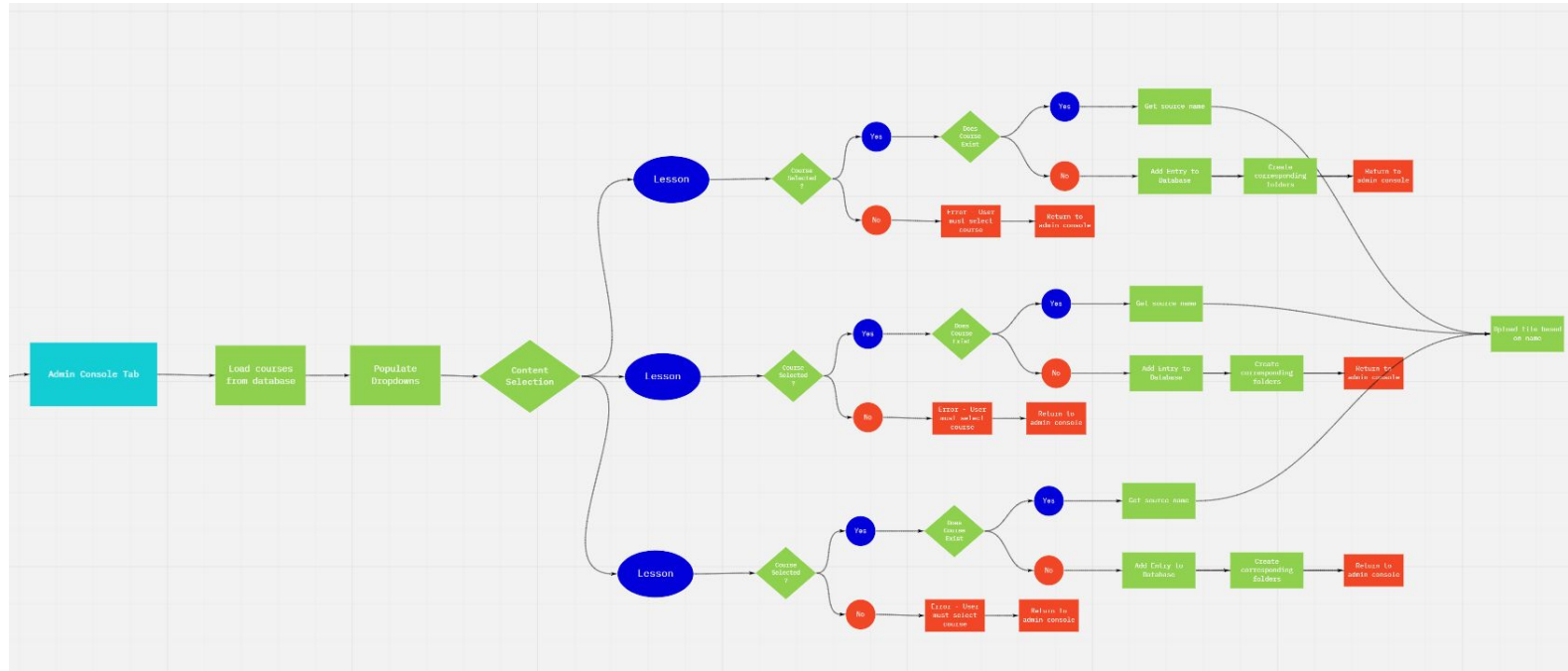


Simple flowchart of the site map. This framing helped me focus on what was needed in this design

Originally I planned to have two types of log-in, google and standard. After researching what the google login entailed some more, I opted to only do a standard log-in. Google Logins cost a great deal of money. In the future, I plan to send a verification email before any new account can be created.



This page was how I got started with the admin console. I needed to visualize the flow and check for accessing the course content on the site. All of the green icons are checks against the database.





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Wireframe Renders

Create new account

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

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Create new account

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[Login](#) | [Register](#)

Select Account Type

Admin Portal



Teacher Portal

[Login](#) | [Register](#)

Login

[Forgot Username](#)
[Reset Password](#)

[Login](#) | [Register](#)



[Upload Files](#)[Manage Users](#)

Course Selection

Lesson Selection

File Destination Selection

Create New Course



Upload Files

Manage Users

Login | Register

Course Selection

Select Course ▼
Select Course
World of Animation
Create new course

Lesson Selection



Select Lesson ▼

File Destination Selection

Select File Type ▼

Choose File

Submit





Upload Files

Manage Users

Login | Register

user@email.com	User Role	Course Access
First Name Last Name	Admin Teacher	Select Course ▼ World of Animation
user@email.com	User Role	Future Realities
First Name Last Name	Admin Teacher	Game Design
user@email.com	User Role	Course Access
First Name Last Name	Admin Teacher	▼



Lesson Plan

Lesson Worksheet

Lesson Supplement

Login | Register

Lesson Powerpoint



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Website Screenshots

Create new account

Enter First Name

Enter Last Name

Username

Enter Email

or

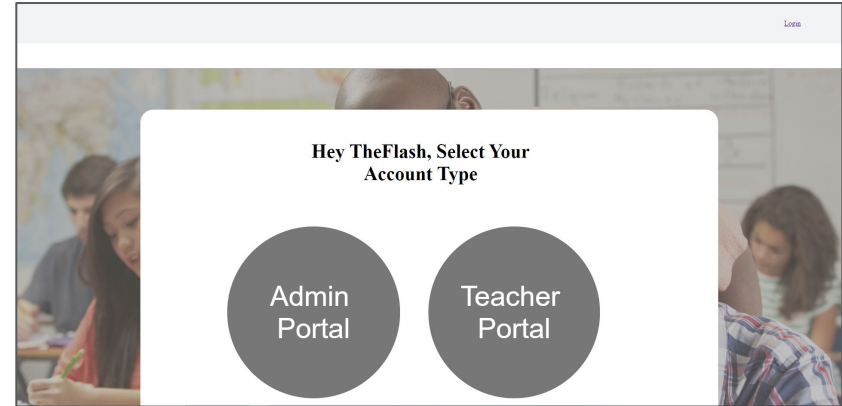
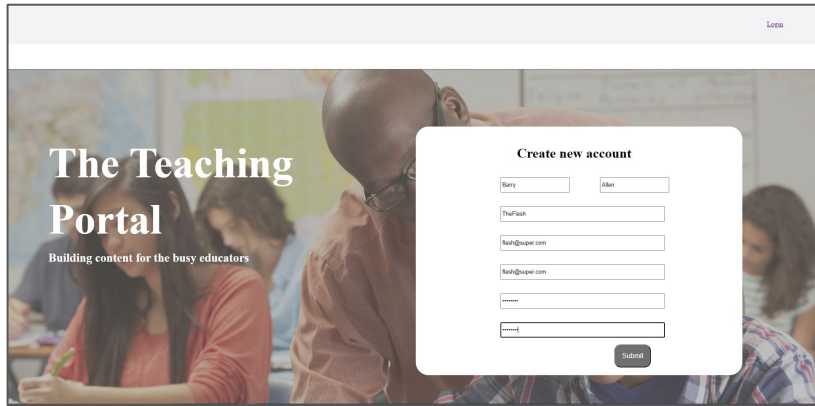
Enter Password

Verify Password

[Login Here](#)

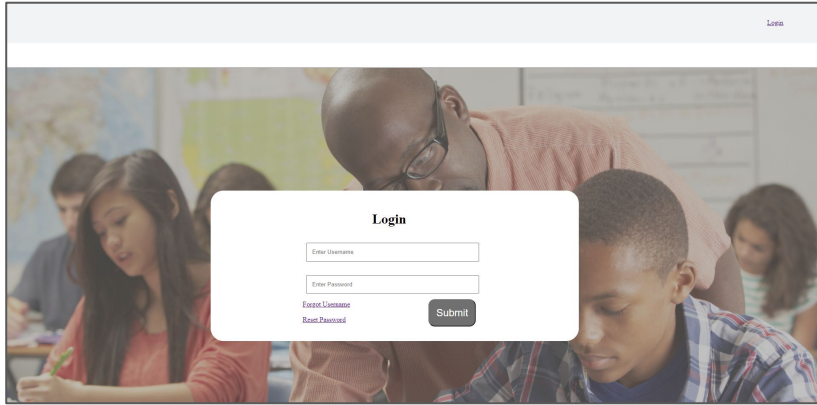
Submit

Landing Page

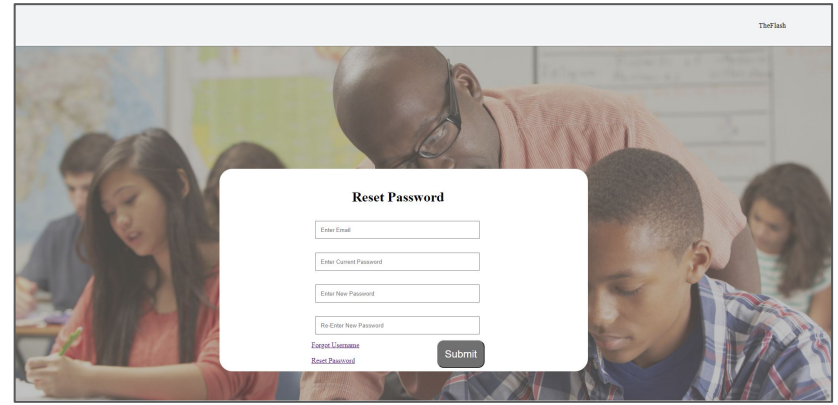


The main landing page also provides users with access to create an account. The page is devoid of any other content as all of the features are loaded on the back-end. Once an account is created, the user can then specify what type of account they want to create. In the future, I'll have a 3rd option or students available. In addition, I'll have any user wishing to be an admin have to go through a check process before approval.

Login Page



The screenshot shows a web application interface with a background image of a teacher and students in a classroom. A white modal box is centered on the screen with the title "Login". Inside the modal, there are two input fields: "Enter Username" and "Enter Password". Below the "Enter Password" field, there are two links: "Forgot Username" and "Reset Password". A "Submit" button is located at the bottom right of the modal. In the top right corner of the page, the text "Login" is visible.



The screenshot shows a web application interface with a background image of a teacher and students in a classroom. A white modal box is centered on the screen with the title "Reset Password". Inside the modal, there are four input fields: "Enter Email", "Enter Current Password", "Enter New Password", and "Re-Enter New Password". Below the "Re-Enter New Password" field, there are two links: "Forgot Username" and "Reset Password". A "Submit" button is located at the bottom right of the modal. In the top right corner of the page, the text "Reset Password" is visible.

Login and Reset Password pages checks against the (accttable-Account Table)
Table within the database to check for and update users

Teacher Options

The screenshot shows the 'Upload Portal' interface. On the left, there is a vertical sidebar with two circular buttons: 'Admin' (highlighted in green) and 'Teacher' (grey). The main content area has a header 'Upload Portal' and a sub-header 'Choose your upload source'. Below this, there is a form with three sections: 'Course Selection' with a 'Select course' dropdown, 'Lesson Selection' with a 'Select lesson' dropdown, and 'File Destination Selection' with a 'Select file type' dropdown. At the bottom right of the form, there are two buttons: 'Choose File' (which shows 'No file chosen') and 'Submit'. In the top right corner, there is a 'TheFish' logo and a dropdown menu with options: 'Teacher Console', 'Account Settings', and 'Sign Out'.

The screenshot shows the 'Teacher Portal' interface. On the left, there is a vertical sidebar with two circular buttons: 'Admin' (grey) and 'Teacher' (highlighted in green). The main content area has a header 'Teacher Portal' and a sub-header 'Which lesson do you want to look up?'. Below this, there is a form with three sections: 'Course Selection' with a 'Select course' dropdown, 'Lesson Selection' with a 'Select lesson' dropdown, and 'File Destination Selection' with a 'Select file type' dropdown. At the bottom right of the form, there is a 'Retrieve Content' button. In the top right corner, there is a 'TheFish' logo.

Teachers only have the option to upload and retrieve content to/from the server.
They can also change their password under account settings

Upload Features

The screenshot shows the 'Upload Portal' interface. On the left, there is a sidebar with two circular buttons labeled 'Admin' and 'Teacher'. The main content area has a header 'Upload Portal' and a sub-header 'Choose your upload source'. Below this, there is a form with three sections: 'Course Selection' with a 'Select course' dropdown, 'Lesson Selection' with a 'Select lesson' dropdown, and 'File Destination Selection' with a 'Select file type' dropdown. At the bottom of the form, there is a 'Choose File' button (which says 'No file chosen') and a 'Submit' button. In the top right corner, there is a user menu with 'Teacher Console', 'TheDish', 'Account Settings', and 'Sign Out'.

The screenshot shows the 'Add New Options' interface. On the left, there is a sidebar with two circular buttons labeled 'Admin' and 'Teacher'. The main content area has a header 'Add New Options' and a sub-header 'Choose your upload source'. Below this, there is a form with three sections: 'Course Selection' with a 'Select course' dropdown, 'Lesson Selection' with a 'Select lesson' dropdown, and 'File Destination Selection' with a 'Select file type' dropdown. Below these sections, there is a 'Create New Course' section with a text input field labeled 'Enter Course Name' and a 'Submit' button. In the top right corner, there is a user menu with 'Teacher Console', 'TheDish', 'Account Settings', and 'Sign Out'.

Users are able to upload and create new course and lessons through the system.
All new courses and lessons are automatically updated when the page is refreshed.

Admin Pages

The screenshot shows the 'Upload Portal' page. On the left is a sidebar with 'Admin' and 'Teacher' buttons. The main area has a title 'Upload Portal' and a subtitle 'Choose your upload source'. Below this are three selection boxes: 'Course Selection' (with a 'Select course' dropdown), 'Lesson Selection' (with a 'Select lesson' dropdown), and 'File Destination Selection' (with a 'Select file type' dropdown). At the bottom, there is a 'Choose File' button, a 'No file chosen' status, and a 'Submit' button. A top navigation bar includes 'Admin Console', 'Overview', 'Manage Users', 'Manage Courses', 'Account Settings', and 'Sign Out'.

Admin pages manages the content for all users. In the **manage users** page, the admin has permission to change the User Roles from Admin to Teacher. In addition, the course that each user is assigned to is accessed through that page. The **Manage Course** page simply manages the courses across the platform.

The screenshot shows the 'Manage Users' page. The sidebar is identical to the previous page. The main area has a title 'Manage Users'. It displays a list of three users, each with a red 'X' icon in a circle. The first user is 'super@man.com' (Superman) with role 'Admin' and assigned to 'Clark Kent'. The second is 'fg@n.co' (Batman1) with role 'Admin' and assigned to 'Bruce Wayne'. The third is 'kevin@gxstudio.org' (McGordon) with role 'Admin' and assigned to 'Kevin Gordon'. Each user entry has a 'User Role' section with 'Admin' and 'Teacher' options, a 'Course Access' dropdown set to 'Select course', and a 'Submit' button. The top navigation bar is the same as the previous page.

The screenshot shows the 'Manage Courses' page. The sidebar is identical. The main area has a title 'Manage Courses'. It displays a list of four courses, each with a red 'Delete Course' button and the course name: 'Animation World', 'Future Realities', 'Dalton Inventors', and 'Retro'. The top navigation bar is the same as the previous pages.



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Databases

Create new account

<input type="text"/>	Enter First Name	<input type="text"/>	Enter Last Name
<input type="text"/>		Enter Username	
<input type="text"/>		Enter Email	
<input type="text"/>		<input type="text"/>	
<input type="text"/>		Enter Password	
<input type="text"/>		Verify Password	

[Login Here](#)

Submit

Database Design - Account Table

✓ Showing rows 0 - 7 (8 total, Query took 0.0004 seconds.)

```
SELECT * FROM `accttable`
```

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

FirstName	LastName	Username	Email	Pwd	createOn	isAdmin	Course_Access
Clark	Kent	Superman	super@man.com	12345678	0000-00-00 00:00:00	1	
Bruce	Wayne	Batman1	f@n.co	12345678	0000-00-00 00:00:00	0	
Kevin	Gordon	MrGordon	kevin@gxstudio.org	12345678	0000-00-00 00:00:00	1	FutureRealities
Bruce	Wayne	Batman	n@n.co	12345678	0000-00-00 00:00:00	0	
Kevin	Gordon	BobTheBuilder	kevinhgordon@gmail.com	12345678	0000-00-00 00:00:00	0	AnimationWorld
Kevin	G	Overlord	tutoring@gxstudio.org	12345678	0000-00-00 00:00:00	1	
Bruce	Banner	Hulk	hulk@g.com	12345678	0000-00-00 00:00:00	1	FutureRealities
Kevin	Gordon	TheFBI	kevinhgordon@yahoo.com	12345678	0000-00-00 00:00:00	0	

Account Table

This is the table that manages users on the website platform. When a new user joins the site, the program first accesses this database to check that the entry doesn't already exist. If the entry is unique, the platform records the user's First Name, Last Name, Username, Email, and Password initially. The two columns on the left are dynamic and can be updated by an admin through the platform console.

Database Design - Content Tables

✓ Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

```
SELECT * FROM `courses`
```

☐ Show all | Number of rows: 25 ▾ | Filter row:

+ Options

course_name	created_on	user_name
Animation World	2020-08-03	Kevin Gordon
Future Realities	2020-08-03	Kevin Gordon
Dalton Inventors	2020-08-03	Kevin Gordon
Retro Game Design	0000-00-00	Kevin Gordon
Computer Science	0000-00-00	
Science	0000-00-00	Batman1

Course Table

```
SELECT * FROM `lessons`
```

☐ Show all | Number of rows: 25 ▾

+ Options

lesson_name	created_on	user_name
Lesson1	2020-08-04	Kevin Gordon
Lesson2	0000-00-00	Overlord

Lesson Table

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT * FROM `files`
```

☐ Show all | Number of rows: 25 ▾

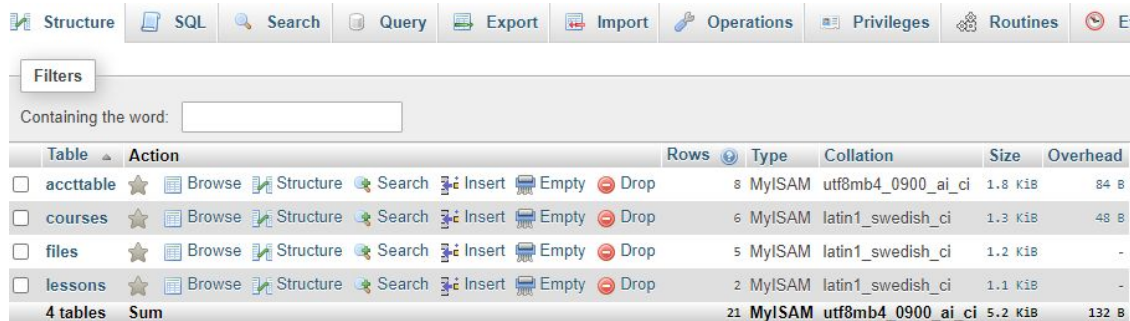
+ Options

file_name	created_on	user_name
Primer	2020-08-04	Kevin Gordon
Plan	2020-08-04	Kevin Gordon
Worksheet	2020-08-04	Kevin Gordon
Powerpoint	2020-08-04	Kevin Gordon
Videos	2020-08-04	Kevin Gordon

File Table

These database tables keep track of the courses and lessons available on this database. In addition to keeping track of the specific courses and lesson, selecting these Tables on the website allows the application to grab access directory folders on the back-end.

Database Design - Course DB



The screenshot shows a database management tool interface with a menu bar at the top containing 'Structure', 'SQL', 'Search', 'Query', 'Export', 'Import', 'Operations', 'Privileges', 'Routines', and 'Ev'. Below the menu is a 'Filters' section with a search box labeled 'Containing the word:'. The main area displays a table list with columns: 'Table', 'Action', 'Rows', 'Type', 'Collation', 'Size', and 'Overhead'. The table list contains four entries: 'accttable', 'courses', 'files', and 'lessons'. Each entry has a checkbox, a star icon, and a set of action icons (Browse, Structure, Search, Insert, Empty, Drop). The 'Sum' row at the bottom shows a total of 21 rows, MyISAM type, utf8mb4_0900_ai_ci collation, 5.2 KiB size, and 132 B overhead.

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> accttable	★ Browse Structure Search Insert Empty Drop	8	MyISAM	utf8mb4_0900_ai_ci	1.8 KiB	84 B
<input type="checkbox"/> courses	★ Browse Structure Search Insert Empty Drop	6	MyISAM	latin1_swedish_ci	1.3 KiB	48 B
<input type="checkbox"/> files	★ Browse Structure Search Insert Empty Drop	5	MyISAM	latin1_swedish_ci	1.2 KiB	-
<input type="checkbox"/> lessons	★ Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	1.1 KiB	-
4 tables	Sum	21	MyISAM	utf8mb4_0900_ai_ci	5.2 KiB	132 B

Course Database

The main database that I was working with for this project. This database included tables for managing user accounts (accttable) as well as course, file, and lesson options.



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Site Map

Create new account

<input type="text"/>	Enter First Name	<input type="text"/>	Enter Last Name
<input type="text"/>		Enter Username	
<input type="text"/>		Enter Email	
<input type="text"/>		Verify Email	
<input type="text"/>		Enter Password	
<input type="text"/>		Verify Password	

[Login Here](#)

Submit

Site Map - Sectioned

Content Pages

- landing.php ← Start here
- Login.php
- AdminConsole.php
- TeacherConsole.php
- userManage.Access.php
- courseManage.Access.php

These pages were the main content pages for the site. Handled most of the visual placement as well as some database pulling. Most updates and selection of database content was handled by master pages however.

Sub Pages

- Reset.php
- ResetUnknownUser.php
- authNew_user.php

Mainly supporting the content pages. These pages are about setting/resetting data from the account table

Brain Pages

- portalStyle.php
- userSession.php
- authLog.php

- adminFile.php

Acted as a supporting page AND a brain page depending on task

These pages control the look and functionality of the overall system. PortalStyle.php is the css page that controlled design, while userSession.php controlled back-end functionality



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Takeaways

Create new account

<input type="text"/>	Enter First Name	<input type="text"/>	Enter Last Name
<input type="text"/>		Enter Username	
<input type="text"/>		Enter Email	
<input type="text"/>		Enter Password	
<input type="text"/>		Verify Password	

[Login Here](#)

Submit

Three Regrets

- One of the core pieces of functionality that I wasn't able to figure out was how to upload files to my server. I was able to get the file path and everything else, but that one bit of functionality eluded my. I settled for making the backbone of the site, with the intention of figuring this out after the fact.
- Another core functionality that I left out was the creation of a new lesson table to correspond with each course. This was needed as each course can have a different number of active lessons, and one lesson table can't satisfy all courses. I opted to make this a stretch goal as more items needed to be dealt with beforehand.
- While I wanted to figure out how to encrypt passwords onto the server (and retrieve user assignment when pulling data) I was never able to figure it out. With more time, I will figure it out though

Three Cool Features

- One of the features I'm most proud of is the New Course feature. It took a but to get the course to update in the table. Once that was done I was able to update the dropdown with new content while also having the system create a folder structure for each new course.
- Admins are able to change the roles of users on the page, which is one feature I'm proud of. In addition to that, admins can also change what course is available to the user.
- Two different profiles depending on what user role you selected

Final Thoughts

Going into this class, I never saw myself as one that can make a properly functioning website. While I've done the occasional front-end design, it was always a one off thing that I never felt like pursuing again. This was one of the rare projects where I was glued to my seat with programming. As I understood more, I began to work even harder to make my web platform as robust as possible. At this point, I feel like I've learned enough that I can take this platform to the next level and possibly use it in my business daily. At first php and mySQL was intimidating, now not so much.