

Manual

ETM Advising System

Full System
Instructions

April 2019

The Instruction Guide

This Guide has been created to provide answers to all questions on how to use the system and how-to setup all necessary components.

The Engineering Technology & Management System has been created to help innovate the process of advising students. Features include a fully functioning DARS Report stripper. A login system connected to a MySQL Database.

Technologies Used:

MySQL ~ Database

MySQL is a highly regarded database system that is widely used and has a free community edition

Node.js ~ Web Server

Node.js is a widely used language to implement web applications. Its powerful Javascript runtime allows for high efficiency and accuracy. Allowing tons of requests to be made at the same time. It is highly scalable and regards HTTP first class.

Python ~ Parser Language

Python is one of the top scripting languages out there. With a wide library and a huge community, the programming language is chosen to easily support the stripping of the DARS reports.

Database Installation



1. First Install 'MySQL Community Edition' to the computer that will host the system.
2. Make sure to install MySQL Server and MySQL Workbench
 - a. For Windows you can install the MySQL Installer
3. Once you have MySQL Workbench installed and open click the plus button next to MySQL connections. This will open the windows shown in **Figure 1**. Here you can name a new connection, setup the desired IP Address. For the computer to use its local connection keep the hostname 127.0.0.1. Keep the port number 3306. Choose a username and click 'Store in Vault..' to setup a password for your database connection.
4. Once your connection has been created it should now be available under the MySQL Connections. Double click on it and sign in with your password.
5. On the next page you will see the MySQL Workbench main page. Click on Server -> Data Import
 - a. From the included files import the file 'SQL -> etmdatabasesettings.sql'
6. You should now see your database schema in the left panel called etm (do not change its name)
7. Your database is now running on this machine under the specified IP Address at port 3306.

Figure 1

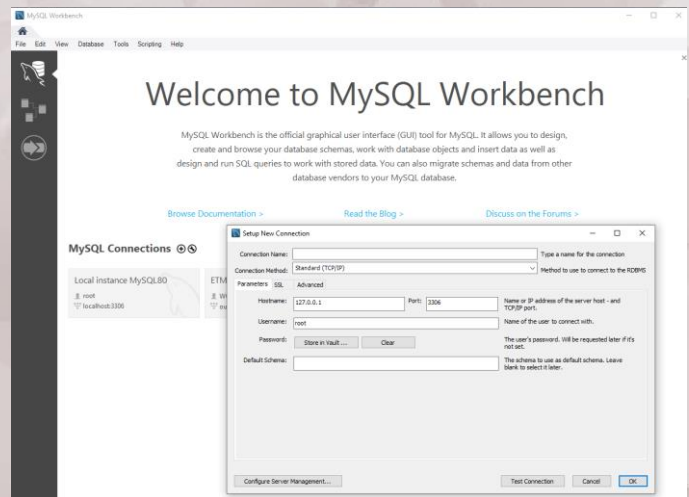
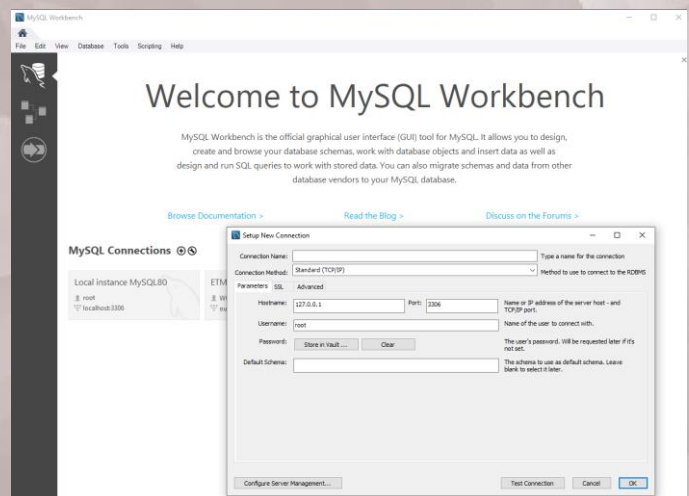


Figure 2



DARS PARSER Installation



1. **First Install Python 2.7 and Pip**
 - a. <https://www.python.org/downloads/>
2. **Then run these commands**
 - a. **pip install pipenv**
 - b. **pipenv install re**
 - c. **pipenv install csv**
 - d. **pipenv install urllib**
 - e. **pipenv install pathname2url**
 - f. **pipenv install collections**
 - g. **pipenv install webbrowser**
 - h. **pipenv install glob**
 - i. **pipenv install mysql-connector-python**
 - j. **pipenv install pdfminer**
 - k. **pipenv install io**
 - l. **pipenv install tabula**
 - m. **pipenv install pandas**



Web Server Installation

1. Download Node.js onto the computer that will host the application
 - a. <https://nodejs.org/en/download>
2. Choose the Windows or Mac Installer
3. Once Installed you are all set to go
4. To run your application, open a terminal window that is pointing inside the folder of the project files
5. Now run the command 'node setup.js' or 'forever server.js' (without quotations)
 - a. If for any reason the application breaks. Quit the terminal window running the program and re-run this command
6. Now your website is up and running.
7. Next let's setup the database settings
8. The Program runs on the host machine using the IP Address of the host machine. It is up to the user to figure out how to route the traffic to a URL
9. The program is setup to use port 80 which is the default webpage port. So that access does not require a port number.

Figure 3

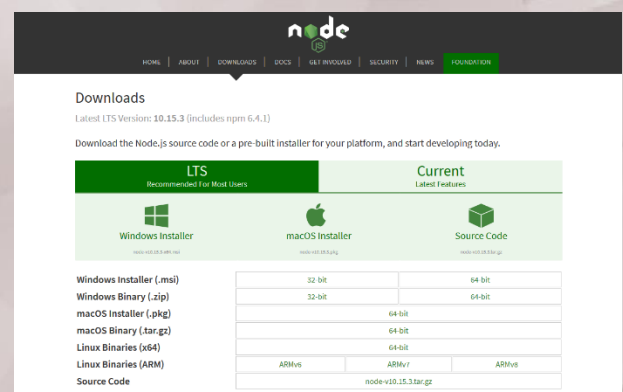
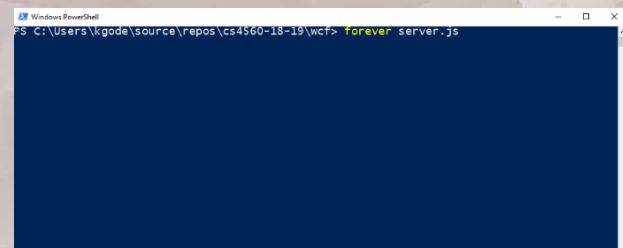


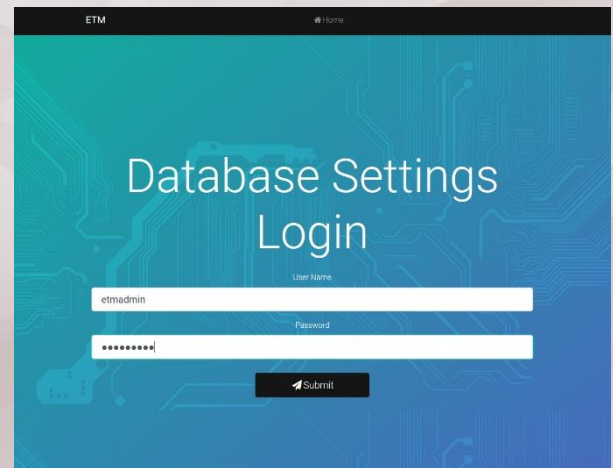
Figure 4



Web Server Database Settings

1. Once your application is running on your host machine.
2. Go to 'http://<IP Address or Hostname>/serve
3. The Login Credentials are predefined for non-database access
 - a. Username: etmadmin
 - b. Password: Password!
4. Once here enter the credentials that you used to setup your database
 - a. Host Url: IP Address or Host URL
 - b. User: MySQL Username
 - c. Database Name: etm
 - i. This MUST be 'etm'
 - d. Database Password: MySQL database password
5. Your Database should now be hooked up to the web application and you may now register accounts and login.

Figure 5



ETM Home

Database Settings Login

User Name

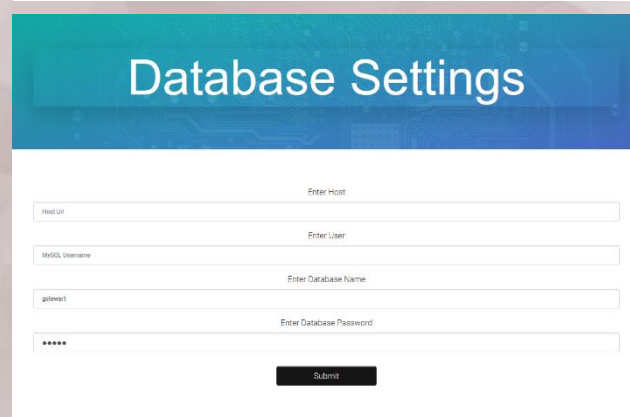
etmadmin

Password

Password!

Submit

Figure 6



Database Settings

Enter Host

Host Url

Enter User

MySQL Username

Enter Database Name

Database Name

Enter Database Password

Database Password

Submit

Account Creation & Login

1. The Homepage displays two buttons. One for login and one for registration
2. Users are matched to their students based on their Ohio Emails displayed on DARS reports.
3. When Registering a user is required to enter an Ohio email address.
4. Once you hit submit the users password is highly encrypted and stored inside the database inside the 'accounts' table. As shown in Figure 8.
5. To create administration accounts first register an account as a regular advisor.
6. Then go into the database right click on accounts and click 'Select Rows – Limit 1000'
7. Find the user you wish to make admin.
8. Change the user from 'atype' to 'admin'
9. As shown in Figure 9.

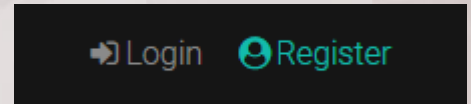


Figure 7

ETM Home Change Password Login

Create Login

Email: your_email@ohio.edu (OHIO Email Address is Required)

First Name: First

Last Name: Last

User Name: gstewart

Password: *****

Password: Re-enter Password

Advisor

Submit

By clicking Submit you agree to our Terms and Conditions

Figure 8

username	password	email	type	accfname	acclname
Theodore	\$2b\$12\$Mxv169u...5hvgKORHvQE4J5V...	ab543512Boho.edu	atype	Abraham	Blain
admin	\$2b\$12\$ecU7HegWxLve5gQLOK20yuz1...	admin@ohio.edu	admin	Admin	Admin

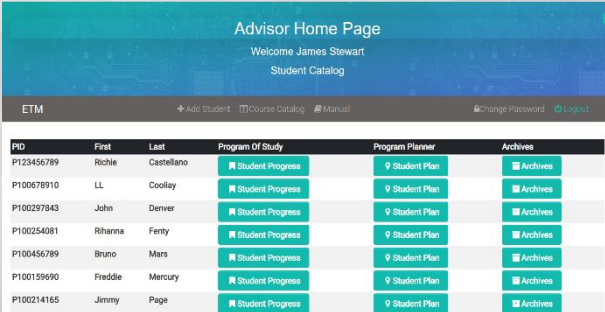
Figure 9

username	password	email	type	accfname	acclname
Theodore	\$2b\$12\$Mxv169u...5hvgKORHvQE4J5V...	ab543512Boho.edu	atype	Abraham	Blain
admin	\$2b\$12\$ecU7HegWxLve5gQLOK20yuz1...	admin@ohio.edu	admin	Admin	Admin
aor...	\$2b\$12\$...	A...	stype	A...	O...
ao0...	\$2b\$12\$...	ar...	atype	A...	O...
bb5...	\$2b\$12\$...	bo...	atype	B...	Li

Main Page - Student Catalog

- Figure 10** shows the main page for an advisor. Here you can view all the students connected to that advisor's email they used to register with.
- Along the navigation bar we have
 - Add Student: Upload DARS
 - Course Catalog: View Estimated Students
 - Manual: View user manual
 - Change Password
 - Logout
- Below the navigation bar we display all available students for an advisor.
 - Here you can click on
 - Student Progress: DARS Report
 - Student Plan: 4-year plan
 - Archives: Previously saved archives for that student
- Figure 11** shows the main page for an administrator
- Along the navigation bar we can
 - Students: View all students in the database
 - Similar view as **Figure 10**. Administration can also delete students.
 - Edit Layout: Control the layout for all users
 - Manual: View user manual
- The user accounts are all displayed on the administration main page. You can delete/reset any accounts password.

Figure 10



PID	First	Last	Program Of Study	Program Planner	Archives
P123456789	Richie	Castellano	Student Progress	Student Plan	Archives
P100678910	LL	Coollay	Student Progress	Student Plan	Archives
P100297843	John	Denver	Student Progress	Student Plan	Archives
P100254081	Rihanna	Fenty	Student Progress	Student Plan	Archives
P100456789	Bruno	Mars	Student Progress	Student Plan	Archives
P100159690	Freddie	Mercury	Student Progress	Student Plan	Archives
P100214165	Jimmy	Page	Student Progress	Student Plan	Archives

Figure 11



Account Owner	Username	Change Password	Delete Account
Admin Admin	admin	Reset Password	Delete Account
Curtis Cohenour	cohenour	Reset Password	Delete Account
Full Student	lgodenswager	Reset Password	Delete Account
James Stewart	gstewart	Reset Password	Delete Account
John Denver	jdenver	Reset Password	Delete Account
Mustafa Shraim	shraim	Reset Password	Delete Account
Jessica Shuler	shulerj	Reset Password	Delete Account

Student Program Of Study

1. **Figure 12** shows the whole program of study page.
2. Under 'ETM Bachelor of Science' you can see the auto generated GPA, Student information, change the advisor using the advisor's email, and use 'Catalog Number' to change the catalog year.
3. Below you can see six tables with different headings. Each heading is matched to a course to make it easier to read and more quickly find courses*.
4. Within each table, you can change grades, semesters, and course codes. Course codes match to courses in the database and will automatically display course name, hours, tier, and prerequisites
5. Double Clicking on an empty box will show all available options in the database
6. Advanced Standing will turn green when checked and save to the database
7. Two buttons are fixed to the bottom of the screen as you scroll.
 - a. Download (Left) will download all the student's current shown data to a CSV file and can be reached by looking at the archives on the home page.
 - b. Submit (Right) will submit all changes to the database**.

*Note : When adding a course, make sure the heading matches the table you would like it to be in.

**Note : These changes will affect other pages such as the Program Planner.

Figure 12

Program Of Study

ETM Bachelor Of Science

Student Information

First Name: [Name]
 Last Name: [Name]
 Student ID: [ID]
 Advisor: [Name]
 Advisor Email: [Email]
 Advisor Phone: [Phone]
 Total Credit Hours: 125.00
 Class Standing: [Standing]
 Catalog Number: [Year]

Notes

1. Minimum 125 credit hours required for ETM Bachelor of Science degree.
 2. All courses must be completed with a grade of C or better.
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 4. Minimum 125 credit hours required for ETM Bachelor of Science degree.
 5. All courses must be completed with a grade of C or better.
 6. All courses must be completed with a grade of C or better.
 7. All courses must be completed with a grade of C or better.
 8. All courses must be completed with a grade of C or better.
 9. All courses must be completed with a grade of C or better.
 10. All courses must be completed with a grade of C or better.

ETM Courses

Semester	Grade	Course Code	Course Name	Hours	Tier	Prerequisites
Fall 1		ETM 101	Introduction to ETM	3	B-1	
Fall 1		ETM 102	Introduction to ETM	3	B-1	
Fall 1		ETM 103	Introduction to ETM	3	B-1	
Fall 1		ETM 104	Introduction to ETM	3	B-1	
Fall 1		ETM 105	Introduction to ETM	3	B-1	
Fall 1		ETM 106	Introduction to ETM	3	B-1	
Fall 1		ETM 107	Introduction to ETM	3	B-1	
Fall 1		ETM 108	Introduction to ETM	3	B-1	
Fall 1		ETM 109	Introduction to ETM	3	B-1	
Fall 1		ETM 110	Introduction to ETM	3	B-1	
Fall 1		ETM 111	Introduction to ETM	3	B-1	
Fall 1		ETM 112	Introduction to ETM	3	B-1	
Fall 1		ETM 113	Introduction to ETM	3	B-1	
Fall 1		ETM 114	Introduction to ETM	3	B-1	
Fall 1		ETM 115	Introduction to ETM	3	B-1	
Fall 1		ETM 116	Introduction to ETM	3	B-1	
Fall 1		ETM 117	Introduction to ETM	3	B-1	
Fall 1		ETM 118	Introduction to ETM	3	B-1	
Fall 1		ETM 119	Introduction to ETM	3	B-1	
Fall 1		ETM 120	Introduction to ETM	3	B-1	
Fall 1		ETM 121	Introduction to ETM	3	B-1	
Fall 1		ETM 122	Introduction to ETM	3	B-1	
Fall 1		ETM 123	Introduction to ETM	3	B-1	
Fall 1		ETM 124	Introduction to ETM	3	B-1	
Fall 1		ETM 125	Introduction to ETM	3	B-1	
Fall 1		ETM 126	Introduction to ETM	3	B-1	
Fall 1		ETM 127	Introduction to ETM	3	B-1	
Fall 1		ETM 128	Introduction to ETM	3	B-1	
Fall 1		ETM 129	Introduction to ETM	3	B-1	
Fall 1		ETM 130	Introduction to ETM	3	B-1	
Fall 1		ETM 131	Introduction to ETM	3	B-1	
Fall 1		ETM 132	Introduction to ETM	3	B-1	
Fall 1		ETM 133	Introduction to ETM	3	B-1	
Fall 1		ETM 134	Introduction to ETM	3	B-1	
Fall 1		ETM 135	Introduction to ETM	3	B-1	
Fall 1		ETM 136	Introduction to ETM	3	B-1	
Fall 1		ETM 137	Introduction to ETM	3	B-1	
Fall 1		ETM 138	Introduction to ETM	3	B-1	
Fall 1		ETM 139	Introduction to ETM	3	B-1	
Fall 1		ETM 140	Introduction to ETM	3	B-1	
Fall 1		ETM 141	Introduction to ETM	3	B-1	
Fall 1		ETM 142	Introduction to ETM	3	B-1	
Fall 1		ETM 143	Introduction to ETM	3	B-1	
Fall 1		ETM 144	Introduction to ETM	3	B-1	
Fall 1		ETM 145	Introduction to ETM	3	B-1	
Fall 1		ETM 146	Introduction to ETM	3	B-1	
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Fall 1		ETM 167	Introduction to ETM	3	B-1	
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Fall 1		ETM 201	Introduction to ETM	3	B-1	
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Fall 1		ETM 240	Introduction to ETM	3	B-1	
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Fall 1		ETM 246	Introduction to ETM	3	B-1	
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Fall 1		ETM 248	Introduction to ETM	3	B-1	
Fall 1		ETM 249	Introduction to ETM	3	B-1	
Fall 1		ETM 250	Introduction to ETM	3	B-1	
Fall 1		ETM 251	Introduction to ETM	3	B-1	
Fall 1		ETM 252	Introduction to ETM	3	B-1	
Fall 1		ETM 253	Introduction to ETM	3	B-1	
Fall 1		ETM 254	Introduction to ETM	3	B-1	
Fall 1		ETM 255	Introduction to ETM	3	B-1	
Fall 1		ETM 256	Introduction to ETM	3	B-1	
Fall 1		ETM 257	Introduction to ETM	3	B-1	
Fall 1		ETM 258	Introduction to ETM	3	B-1	
Fall 1		ETM 259	Introduction to ETM	3	B-1	
Fall 1		ETM 260	Introduction to ETM	3	B-1	
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Fall 1		ETM 263	Introduction to ETM	3	B-1	
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Fall 1		ETM 267	Introduction to ETM	3	B-1	
Fall 1		ETM 268	Introduction to ETM	3	B-1	
Fall 1		ETM 269	Introduction to ETM	3	B-1	
Fall 1		ETM 270	Introduction to ETM	3	B-1	
Fall 1		ETM 271	Introduction to ETM	3	B-1	
Fall 1		ETM 272	Introduction to ETM	3	B-1	
Fall 1		ETM 273	Introduction to ETM	3	B-1	
Fall 1		ETM 274	Introduction to ETM	3	B-1	
Fall 1		ETM 275	Introduction to ETM	3	B-1	
Fall 1		ETM 276	Introduction to ETM	3	B-1	
Fall 1		ETM 277	Introduction to ETM	3	B-1	
Fall 1		ETM 278	Introduction to ETM	3	B-1	
Fall 1						

Program Of Study Layout

1. When a new catalog is made or the layout needs updated, the Program of Study Layout page should be used. This allows admin users to rename and rearrange any course, table, or placeholder.
2. [Figure 13](#) shows the page reached when you click 'Edit Layout' (only admin users have this button).
3. [Figure 14](#) shows the Catalog Course Layout page. Here you can edit the ordering of courses and which table they are placed inside. Course placement for each table starts at 1*.
4. [Figure 15](#) shows the Placeholder Layout Page. This is set up the same as the course layout, but is for the placeholders used in each position before they have a course.
5. [Figure 16](#) shows the Heading Layout Page. This is a way to organize the table name and order on the POS page.

*Note : Putting a 0 disables a course, heading, or placeholder.

Figure 13



Figure 14

Course Code	Catalog Year	Position	Heading
ACCT1010	2015-16	1	Business Courses
ACCT1005	2015-16	2	Business Courses
ETM3620	2015-16	2	Business Courses
FIN3000	2015-16	3	Business Courses
ETM2150	2015-16	0	ETM Courses
ETM3540	2015-16	0	ETM Courses
ETM2190	2015-16	0	ETM Courses
ETM3020	2015-16	0	ETM Courses

Figure 15

Course Code	Catalog Year	Position	Heading
ACCT1005-1010	2015-16	1	Business Courses
ETM3620	2015-16	2	Business Courses
FIN3000	2015-16	3	Business Courses
MGT2000	2015-16	4	Business Courses
MIS2021	2015-16	5	Business Courses
MKT2020	2015-16	6	Business Courses
ETM100	2015-16	1	Certificates
		0	ETM Courses

Figure 16

Catalog Year	Heading	Position
2015-17	Business Courses	1
2015-17	ETM Courses	2
2015-17	Business Courses	3
2015-17	Business Courses	4
2015-17	Business Courses	5
2015-17	Business Courses	6
2015-16	ETM Courses	1
2015-16	ETM Courses	2
2015-16	Business Courses	3
2015-16	Business Courses	4
2015-16	Business Courses	5
2015-16	Business Courses	6
2015-16	Business Courses	7

Additions & Deletions

1. **Figure 17** Shows the course addition page (The Placeholder addition is similar but less fields are required). Here you can add a course to the database. Most fields are required, and the formatting is enforced so that everything is compatible with the DARS reports. All available headings in the database are also listed in the 'Choose a Catalog Heading' option.
2. **Figure 18** shows the heading addition page. Here you can add new headings by catalog year, you can choose a name, and then you choose a table in the program of study for that heading to be in.
3. To disable headings, use position 0.
4. Deletion of a course will remove it from the database which includes removing the course from student data.
5. You can update information for a course by using the 'Course Add' page and using the same course code and catalog year.

Figure 17

Adding a Course by the same Code and Catalog will update other values.

Enter Course Code
Should Match DARS. Example: ETM1010

Enter Course Name
Course Name

Enter Course Hours
Course Hours

Enter Course Tier
Course Tier

Enter Course Prereq's
Course Prereqs

Enter Course Catalog Year
Example: 2015-16

Choose a Catalog Heading
Business Courses

Submit

Figure 18

To Disable Heading Use Position 0

Enter a Catalog Year
Example: 2015-16

Enter Heading Name
Ex: Free Electives

Choose a table
-

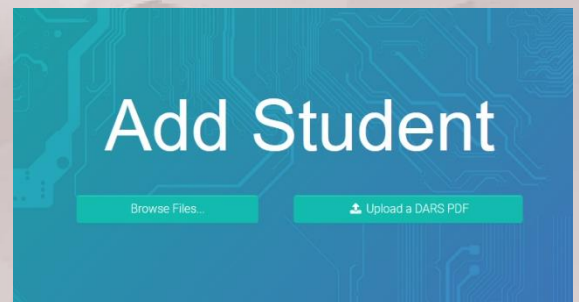
Submit

DARS Parser



1. **Figure 19** shows the 'Add Student' Page where you can upload DARS PDF's and they will be run on the python script and put into the database.
2. Inside the DARS Parser python file, make sure the database settings are changed to reflect your local database settings. Otherwise the parser will be unable to submit its findings to the database.

Figure 19



Code Catalog – Page 1

Folder : Dars

- 1. DP2.py : DARS Parser (Contains code to parse DARS PDFs)**
 - a. Requires Python & Python Dependencies listed in file**
- 2. DAR's files are imported into the 'Dars' Folder and then run with DP2.py**

Folder: node_modules

- 1. This Folder contains code installed through the Node.js package manager called 'npm'**
- 2. If for any reason the program cannot run, you can try deleting this entire folder and then running the command 'npm install' inside the project folder**

Folder: routes

- 1. This folder contains all the Node.js files that power the web server.**
 - a. File: about.js**
 - i. This file is used to serve the About Page**
 - b. File: addstudent.js**
 - i. This file is used to serve the Add Student Page for the advisor view**
 - c. File: adminchangepassword.js**
 - i. This file is used for password changing with all accounts through the administration account.**
 - d. File: admincourseedit.js**
 - i. This file is used to serve the Program of Study Layout Pages**
 - e. File: administration.js**
 - i. This file is used to serve the Admin Home Page upon login**
 - f. File: archives.js**
 - i. This file is used to serve the Archives page for the advisor view**
-

Code Catalog – Page 2

- g. File: archives2.js**
 - i. This file is used to serve the Archives Page for the admin view**
 - h. File: auth.js**
 - i. This file is used to define the authentication enforcement for all pages. This is part of the 'Passport' NPM package**
 - i. File: changepassword.js**
 - i. This file is used to serve the change password for the main page (before login)**
 - j. File: courseedits.js**
 - i. This file has been deprecated but kept for future implementation**
 - k. File: courseloadingview.js**
 - i. This file is used to serve ALL course loading view's**
 - l. File: db.js**
 - i. This file is used to define the database settings for the web server**
 - m. File: db2.js**
 - i. This file is also used to define the database settings but enables MySQL multiple statements for the Program Of Study pages.**
 - n. File: deletestudent.js**
 - i. This file is used to serve the delete student operations in student catalog admin view**
 - o. File: deletion.js**
 - i. This file is used to delete accounts in the admin home page view**
 - p. File: download.js**
 - i. This file is used to serve the archive download operation for the advisor view**
-

Code Catalog – Page 3

- q. File: downlaod2.js
 - i. This file is used to serve the archive download operation for the admin view
 - r. File: errorpage_admin.js
 - i. This file is used to serve the error pages for the admin view
 - s. File: errorpage.js
 - i. This file is used to serve all of advisor view and basic page view error pages
 - t. File: houme.js
 - i. This file is used to serve ALL of the home pages for both views
 - u. File: index.js
 - i. This file is used to serve the main page when you access the website
 - v. File: info.js
 - i. This file is used to serve the information pages scattered throughout the web pages
 - w. File: license.js
 - i. This file is used to serve the License web page
 - x. File: loading.js
 - i. This file is used to serve the loading pages for the web server
 - y. File: login.js
 - i. This file is used to serve the login operation
 - z. File: logout.js
 - i. This file is used to serve the logout operation
 - aa. File: passport.js
 - i. This file is used to serve the login operations. This file checks for the correct password and authenticates users
-

Code Catalog – Page 4

bb. File: privacypolicy.js

i. This file serves the privacy policy page

cc. File: programofstudy_admin.js

i. This file serves the program of study view for the admin accounts

dd. File: programofstudy.js

i. This file serves the program of study view for the advisor accounts

ee. File: programplanner_admin.js

i. This file serves the program planner for admin accounts

ff. File: programplanner.js

i. This file serves the program planner for advisor accounts

gg. File: register.js

i. This file serves the registration operations

hh. File: submit.js

i. This file serves the Thank Page for the Program Of Study

Folder: SQL

1. File: etmdatabasesettings.sql

ii. This file is used to setup your Database by importing this file into your schema through the MySQL Workbench

Folder: test

1. This folder contains files used to test the program to make sure there were not issues.

Folder: TheArchives

1. This folder is used with the program to store all of the Program Of Study Submissions

Code Catalog – Page 5

Folder: views

- 1. This Folder is used to store all the files that are used to render every single page. It also includes all the CSS and SASS files.**
 - 2. Folder: assets**
 - a. This folder contains assets used within the program**
 - 3. Folder: js**
 - a. This folder contains javascript files used within the HTML**
 - 4. File: add*.pug**
 - a. These files are used to display pages that allow a user to add something to the program**
 - 5. File: admin*.pug**
 - a. These files are used to display admin views**
 - 6. File: archive*.pug**
 - a. These files are used to display the archive pages**
 - 7. File: change*.pug**
 - a. These files are used to display the change password pages**
 - 8. File: courseloadingview*.pug**
 - a. These files are used to display the Project Students for ETM courses**
 - 9. File: edit*.pug**
 - a. These files are used to add and change the Layout of the POS**
 - 10. File: error*.pug**
 - a. These files are used to display error pages.**
 - 11. File: hουμε*.pug**
 - a. These files are used to display the home pages**
-

Code Catalog – Page 6

- 12. File: index.pug**
 - a. Main page**
- 13. File: info*.pug**
 - a. All pages associated with the information pages**
- 14. File: *.pug**
 - a. Pug Files are JavaScript Template Pages that are rendered into HTML when requested for**

File: app.js

- 1. This file is the powerhouse of the whole entire webserver. Without it the program would be nothing. Inside we have HTTP security features, user sessions, routes, and catch all un-caught errors.**
- 2. The Routes define how pages are accessed through URL's**

File: dbcreate.py

- 1. This file is used to change the database settings for the programs so that any user can connect to whatever database they set up without having to access any of the code**

File: package-lock.json

- 1. This file is auto created when you run 'npm install'. It is not recommended that any changes are made to this file.**

File: package.json

- 1. This file is auto created when installing new NPM packages. This file lists all the NPM package dependencies and it is not recommended that you make any changes to it.**
- 2. NPM is a Node.js package manager which allows you to install many packages from the NPM community.**

File: server.js

- 1. This file is used to run the server.**
-

Code Catalog – Page 7

File: setserver.js

1. This file is used to serve the database settings page <http://<website>/serve>
2. This allows you to update the database settings as defined early in this user guide.

File: setup.js

1. This file is the main file which creates the listener on port 80 to allow communication between users and the webserver. This file should never have to change.
-