

AggieAssign – User Documentation

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Basic Application Structure and Pages

This application consists of 5 main pages/views.

- Login Page: A page to allow simple login

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Sign in with Google

- Schedules List Page: A page with all the schedules for the user.

Schedules you are working on

Create a New Schedule

Search by schedule name

Search

Test

Semester: Test
Some Info about the schedule

Delete

Export

Test 1

Semester: Test 1
Some Info about the schedule

Delete

Export

Test 2

Semester: Test 2
Some Info about the schedule

Delete

Export

127.0.0.1:3000/schedules/1

- Schedule Creation Form: A form to create a new schedule

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Create a New Schedule

Schedule name

Enter schedule name

Semester name

Enter semester name

Save Schedule

Back

- Schedule Details Page: A page to upload data for a schedule or view its metadata.

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Schedule Details

Schedule Name: Test
Semester: Test

Back

View Data

Upload Room Data

197 rooms uploaded on November 14, 2024 at 06:31 PM

Select Room Data (CSV)

Choose File

No file chosen

Upload Room Data

Upload Course Data

138 courses uploaded on November 15, 2024 at 10:32 AM

Select Course Data (CSV)

Choose File

No file chosen

Upload Course Data

Upload Instructor Data

72 instructors uploaded on November 15, 2024 at 10:33 AM

Select Instructor Data (CSV)

Choose File

No file chosen

Upload Instructor Data

- Schedule Data View: A page to view the uploaded data for a schedule in the form of tables. This page further has 4 tabs for each available data for a given schedule.
 - o Rooms Tab – Data about Room Availability and Unavailability of the rooms

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Test Back to Schedules Add Predefined Courses Export

Rooms Courses Instructors Time Slots

Show All Rooms

Campus ▲	Building Code ▼	Room Number ▲	Capacity ▲	Lecture Hall	Learning Studio	Lab	Comments ▲
CS	EABA	118	75	Yes	Yes	Yes	
CS	EABA	121	100	Yes	Yes	Yes	
CS	EABB	106	118	Yes	No	No	
CS	HRBB	113	65	Yes	Yes	No	
CS	HRBB	124	135	Yes	No	No	
CS	HRBB	126	30	Yes	Yes	No	
CS	ONLINE	ONLINE	9999	No	No	No	
CS	ZACH	244	100	Yes	Yes	No	
CS	ZACH	310	100	Yes	Yes	No	
CS	ZACH	350	100	Yes	Yes	No	
CS	ZACH	590	34	No	No	Yes	
CS	ZACH	582	24	No	No	Yes	

- o Courses Tab – Data about every course and the sections that need to be scheduled together

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Test Back to Schedules Add Predefined Courses Export

Rooms **Courses** Instructors Time Slots

Show Hidden Courses

Course Number ▼	Max Seats ▲	Lecture Type ▲	Number of Labs ▲	Sections	Generator Visibility
110	96	F2F	4	500,501,502,503	Hide
110	96	F2F	4	504,505,506, 507	Hide
111	96	F2F	4	500,501,502,503	Hide
111/708 (86/10)	96	F2F	5	504, 505, 506, 507, 708-600	Hide
120	96	F2F	4	500,501,502,503	Hide
120	96	F2F	4	504,505,506,507	Hide
120	96	F2F	4	508,509,510,511	Hide
120	96	F2F	4	512,513,545,515	Hide
120	96	F2F	4	516,517,518,519	Hide
120	96	F2F	4	520,521,522,523	Hide

- o Instructor Tab – Data about every instructor and their teaching preferences

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Test Back to Schedules Add Predefined Courses Export

Rooms Courses **Instructors** Time Slots

ID Number ▲	First Name ▼	Middle Name ▲	Last Name ▲	Email ▲	Teaches Before 9 ▲	Teaches After 3 ▲	Be Aware Of ▲	Course Load ▲	Actions
2623488	Aaron	M	Baker	aaron.baker@tamu.edu	Yes	No		2	View Preferences
Course		Preference Level							
110		3							
111		3							
111/708 (86/10)		3							
120		3							
181		3							
206		3							
221H		3							
221		3							
222D		3							
222		3							
310D		3							
310		3							
312		3							
312D		3							

- o Time Slot Tab – Available time slots

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Test

Back to Schedules

Add Predefined Courses

Export

Rooms

Courses

Instructors

Time Slots

Filter by Day

Filter by Type

All Days

All Types

Filter

Day	Start Time	End Time	Type
MWF	8:00	8:50	LEC
MWF	9:10	10:00	LEC
MWF	10:20	11:10	LEC
MWF	11:30	12:20	LEC
MWF	12:40	13:30	LEC
MWF	13:50	14:20	LEC
MWF	15:00	15:50	LEC
MW	16:10	17:25	LEC
MW	17:45	19:00	LEC

- Predefined Courses View: A view to build an actual schedule by adding the predefined courses to room bookings and time slots.

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Test

Back to Schedules

View Data

Generate Remaining

MWF

MW

TR

F

24 hr	EABA 118	EABA 121	EABB 106	HRBB 113	HRBB 124	HRBB 126	ZACH 244	ZACH 310	ZACH 350	ZACH 590	ZACH 582	ZACH 584	ZACH 596	ZACH 598	ZACH 592
8:00 - 8:50	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
9:10 - 10:00	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
10:20 - 11:10	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
11:30 - 12:20	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
12:40 - 13:30	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
13:50 - 14:20	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
15:00 - 15:50	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL

Select a slot first

110

Section(s): 500,501,502,503

Seats: 96

Type: F2P

Select

110

Section(s): 504,505,506, 507

Seats: 96

Type: F2P

Select

111

Section(s): 500,501,502,503

Seats: 96

Type: F2P

Select

111/708 (86/10)

Section(s): 504, 505, 506, 507, 708,600

Seats: 96

Type: F2P

Select

120

How to upload data?

1. After creating a schedule, you can click on it in the schedule list to go to the **Data View**.
2. Then choose a csv for rooms from your local system and click on **Upload Room Data**.
 - a. The structure for rooms csv should be identical to the below data
campus,building_code,room_number,is_lab,is_lecture_hall,is_learning_studio,capacity,is_active,comments
CS,AIEN,M309,False,False,False,9999,False,
CS,ARCA,107A,False,False,False,9999,False,
CS,ARCA,107B,False,False,False,9999,False,
CS,ARCB,101,False,False,False,9999,False,
CS,ARCB,209,False,False,False,9999,False,
CS,ARCC,105,False,False,False,9999,False,
CS,ARCC,109A,False,False,False,9999,False,

...

3. Then choose a csv for courses from your local system and click on **Upload Courses Data**.
 - a. The structure for courses should be identical to the below data
Class,Max. Seats,Lecture Type,#Labs,Section number,Seat Split
110,96,F2F,4,"500,501,502,503","24,24,24,24"
110,96,F2F,4,"504,505,506, 507","24,24,24,24"
111,96,F2F,4,"500,501,502,503","24,24,24,24"
111/708 (86/10),96,F2F,5,"504, 505, 506, 507, 708:600","24, 24, 24, 14, 10"
4. Then choose a csv for rooms from your local system and click on **Upload Instructors Data**.
 - a. The structure for instructors should be identical to the
 instructors_preference_anonymized.csv shared with us with added fields
 for First Name, Middle Name, Last Name, Email

How to add predefined courses and generate courses?

For adding predefined courses we need to be in the Predefined Courses View.

1. Select a schedule.
2. After uploading all the required data. Click on View Data.
3. Select the slot you want to add a course to. It will highlight in yellow.
4. Select the course section, by clicking on the select, that you would want to add to the slot.
5. After clicking it should show up on the Time Slot x Rooms Matrix. Here one can add the courses and select professors.
6. Clicking on Unlocked one can lock this course to the slot so that the generate courses are not affected by it.
7. Blocking Timeslots can also be done, by click on BL. This reflects across all overlapping timeslots.
8. To autofill rest of the schedule Click on Generate Remaining. This may take upto 5 minutes.

How to download a generated schedule?

After creating your schedule there are 2 places to download csv of the schedule from.

1. Click on **Export** in the **View Data Page**.
2. Click on **Export** for the given schedule in the **Schedules List Page**.

Current known flaws

While we have worked hard for 4 sprints to get as much done as possible the app is not without flaws. Some known flaws are:

1. Generating a schedule with a locked course unlocks it, but does not change it's position.

2. Generating a schedule does not retain the instructors for a locked course.
3. The app is not as intuitive as intended to be.
4. The app is slow when it come to uploading instructors.