

AcornPlus API

Endpoint	Method	Description	Input JSON	Output JSON	Possible errors	Scope
/signup	/POST*	Create user	username,email,password		400: missing required input 403: duplicate email or username	All
/login	/POST*	Login the user	username,password	_id,token	403: duplicate email or username	All
/users/:uid	/PUT*	Update user's email and password	email or password	HTTP ok	403: try another password or email	Login user
/courseslist	/GET	Get all the courses list from the db		Code Starting time End time Lecture code	403:if there are not courses list in the db	All
/save	/GET	Save the user's courses table	Username, courses			All
/search	/GET	Search specified user's courses table	username	Username Courses	403:if there are no data in the db or if no such user in the db	All

/user/uid?	/GET	Delete the specified user's time table from the db	id	HTTP ok	403: if there is no such user	ALL
------------	------	--	----	---------	-------------------------------	-----

Requirements:

Requirements	Completed or not	Who completed it/ Explanation
Dashboard:		
Users can view the course info by moving the mouse on the top of the course code.	yes	Pengya Zhang, Yunwei Zhang, Ruowen Gao
Generate exam schedule button (this button is available once the exam schedule comes out)	no	Explanation: we are unable to get anything related to final information from Acorn, since we changed our app from an Acorn extension to a separated website.
Search Course:		
Can filter by professor preference	no	Explanation: since this is frontend, we are going to implement it in the next phase.
Can filter by location	no	Explanation: since this is frontend, we are going to implement it in the next phase.
Can filter by time(morning or afternoon)	no	Explanation: since this is frontend, we are going to implement it in the next phase.

Can filter by course length	no	Explanation: since this is frontend, we are going to implement it in the next phase.
Can filter by course load preference	no	Explanation: since this is frontend, we are going to implement it in the next phase.
Can filter by date(MON/FRI) load preference	no	Explanation: since this is frontend, we are going to implement it in the next phase.
Algorithm for Generating Timetable:		
Use a data search algorithm	yes	Jiaming Li
Store the results into a list	yes	Jiaming Li
Consider user preferences	no	Explanation: since we do not yet have the filter feature, this cannot be implemented so far.
Provide all possible plans	no	Explanation: We are going to generate one best solution instead of multiple ones.
Give error messages when there are the classes that are impossible to be taken together	yes	Jiaming Li
Resolve conflicts	no	Explanation: We will generate a conflict-free plan instead of having conflicts exist and solve them.
Output the results	yes	Jiaming Li

Display Course Information:		
Display the instructor names	no	Explanation: we currently do not have instructor in our database
Display the final exam time (if the exam information is available to view)	no	Explanation: we are unable to get anything related to final information from Acorn, since we changed our app from an Acorn extension to a separated website.
Display short descriptions about the course	yes	Pengya Zhang, Yunwei Zhang, Ruowen Gao
Display Timetable:		
Display how many hours of lectures you have each day.	no	Explanation: since this is frontend, we are going to implement it in the next phase.
List all the finals in a timetable format (if the exam information is available to view)	no	Explanation: we are unable to get anything related to final information from Acorn, since we changed our app from an Acorn extension to a separated website.
Display the total number of finals you have.	no	Explanation: we are unable to get anything related to final information from Acorn, since we changed our app from an Acorn extension to a separated website.
Display the length of each final exam.	no	Explanation: we are unable to get anything related to final information from Acorn, since we changed our app from an Acorn extension to a separated website.
Can change different themes for the timetable	yes	Jiaming Li
download option (users can save it as a wallpaper)	no	Explanation: taking screenshots would be a more easier way for users than downloading

Extra features:

1. First-time users are able to sign up, and our database will store their email and password. They can also login every time, and will be able to see their saved personal information, as well as their generated timetable, if there is any.
2. Users can update their information by changing their email and password, and our database will save their changes.
3. Users' search history will also be saved in our database (in the file savedtable.js). Courses they have searched before will be saved in a list, and they will be able to save or delete their search history.
4. Our algorithm is a searching algorithm that uses BFS to compare the time for all the courses that user added and find a possible solution to the user's course timetable.