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| **URL** | **Purpose** | **Type** | **Input** | **Returns** |
| /courses | Get all courses in DB | POST | None | [{"courseId":"1","courseCode":"COMP 248","semester":"Fall","description":"Introduction to programming. Basic data types, variables, expressions, assignments, control flow. Classes, objects, methods.","name":"Object-Oriented Programming I","credits":"3}]  //goes on forever |
| /sections | Get all sections for all courses in DB | POST | None | “” |
| /sectioncourse | Get all section in DB for the specified course | POST | $courseId=$\_POST('courseId'); | “” |
| /userprefs | Get preferences for a user | POST | $username=$\_POST['username']; | {"success":"true","username":"SprinkKing","courseload":"4","dayoff":"Monday","preferredTime":"Afternoons"} |
| /needed | Get needed courses for a user | POST | $username=$\_POST['username']; | String that will be parsed  {"List":[{"name":"oop", "number":"248"},{"name":"oop2", "number":"249"}]} |
| /taken | Get taken courses for a user | POST | $username=$\_POST['username']; | String that will be parsed  {"List":[{"name":"oop", "number":"248"},{"name":"oop2", "number":"249"}]} |
| /scheduler | Generate schedule | POST | $username=$\_POST['username']; |  |
| /addadmincourse | Add a course to the DB | POST | $json=$\_POST['json'];  //$json='{"section":"UI-X","sectionId":"1","classroom":"H-4","semester":"Winter","type":"Lab","dayOffered":"5","beginTime":"13:35:00","endTime":"14:35:00","courseId":"2","courseCode":"COMP 248","sectionNum":"1"}'; | False: if course with that id already exists  True: otherwise  {"success":"true","courseID":"142","Course":"{\"courseId\":\"null\",\"courseCode\":\"COMP 2489895\",\"semester\":\"Summer\",\"description\":\"Salt level critical, abort !\",\"name\":\"Object-Oriented Programming I\",\"credits\":\"3\"}"} |
| /addadminsection | Add a section to the DB | POST | $json=$\_POST['json'];  //$json='{"section":"UI-X","sectionId":"1","classroom":"H-4","semester":"Winter","type":"Lab","dayOffered":"5","beginTime":"13:35:00","endTime":"14:35:00","courseId":"2","courseCode":"COMP 248","sectionNum":"1"}'; | {"success":"true","SectionID":"352","Section":"{\"section\":\"UI-GR\",\"sectionId\":\"null\",\"classroom\":\"H-4\",\"semester\":\"Winter\",\"type\":\"Lab\",\"dayOffered\":\"5\",\"beginTime\":\"13:35:00\",\"endTime\":\"14:35:00\",\"courseId\":\"2\",\"courseCode\":\"COMP 248\",\"sectionNum\":\"1\"}"} |
| /removeadmincourse | Remove a course from the DB | POST | //$courseId=$\_POST['courseId']; //course id | N/A |
| /removeadminsection | Remove a section from the DB | POST | //$sectionId=$\_POST['sectionId']; //section id | N/A |
| /editcourse | Edit course information | POST | $json=$\_POST['json'];  //$json='{"courseId":"1","courseCode":"COMP 248","semester":"Fall","description":" Critical amount of salt atteined","name":"Object-Oriented Programming I","credits":"3"}'; | {"success":"true","Course":"{\"courseId\":\"1\",\"courseCode\":\"COMP 248\",\"semester\":\"Fall\",\"description\":\"Introduction to programming. Critical amount of salt atteined\",\"name\":\"Object-Oriented Programming I\",\"credits\":\"3\"}"} |
| /editsection | Edit section information | POST | $json=$\_POST['json'];  //$json='{"section":"UI-X","sectionId":"1","classroom":"H-905","semester":"Winter","type":"Lab","dayOffered":"5","beginTime":"13:35:00","endTime":"14:35:00","courseId":"2","courseCode":"COMP 248","sectionNum":"1"}'; | {"success":"true","Section":"{\"section\":\"UI-GR\",\"sectionId\":\"1\",\"classroom\":\"H-420\",\"semester\":\"Winter\",\"type\":\"Lab\",\"dayOffered\":\"5\",\"beginTime\":\"13:35:00\",\"endTime\":\"14:35:00\",\"courseId\":\"2\",\"courseCode\":\"COMP 248\",\"sectionNum\":\"1\"}"} |
| /editpreferences | Edit user’s preferences | POST | $username=$\_POST['username'];//username  $cload=$\_POST['cload'];//courseload  $dayoff=$\_POST['dayoff'];//time off  $preftime=$\_POST['preftime'];//pref time | {"success":"true","username":"JasonB","courseload":"5","dayoff":"Monday","preftime":"Mornings"} |
| /editneededcourses | Edit user’s needed courses | POST | $old=$\_POST['username'];  $json=$\_POST['json'];  // $json='{"List":[{"name":"oop", "number":"248"},{"name":"oop2", "number":"249"}]}'; | {"success":"true","username":"user17","List":"{\"List\":[{\"name\":\"Operating Systems\",\"number\":\"COMP 346\"},{\"name\":\"Principles of Electrical Engineering\",\"number\":\"ELEC 275\"},{\"name\":\"Probability and Statistics in Engineering\",\"number\":\"ENG….. }]}"} |
| /edittakencourses | Edit user’s taken courses | POST | {username:’’, json: '{"List":[{"name":"oop", "number":"248"},{"name":"oop2", "number":"249"}]}'} | {"success":"true","username":"user17","List":"{\"List\":[{\"name\":\"Mathematics for Computer Science\",\"number\":\"COMP 232\"},{\"name\":\"Object-Oriented Programming I\",\"number\":\"COMP 248\"},…….{name\":\"Sustainable Development and Environmental Stewardship\",\"number\":\"ENGR 202\"}]}"} |
| /editusername | Change username for user | POST | $old=$\_POST['old']; // old username  $new=$\_POST['new'];  //new username | False: new username exists already  True: otherwise  result"=>"true","username"=>"$new") |
| /editemail | Change e-mail for user | POST | $old=$\_POST['old'];//username  $new=$\_POST['new'];//new email | ("success"=>"true","username"=>"$old","email"=>"$new")  False: username not found |
| /editpassword | Change password for user | POST | $username=$\_POST['old']; //username  $newPassword=$\_POST['new']; //new password | "success"=>"true","password"=>"$new")); |
| /email | Get user’s email | POST | $username=$\_POST['username'];//username | E-mail as a String  "result":"good","username":"JasonB","email":"newEnail@email.com"} |
| /login | Login verification | POST | $username=$\_POST['username']; $password=$\_POST['password']; | {success:bool, isAdmin:bool}  {"success":"true","username":"JASONB","isAdmin":"true"} |
| /register | Register user | POST | $username=$\_POST['username'];  $password=$\_POST['password'];  $email=$\_POST['email']; | False: username exists already  True: otherwise  {"success":"false","username":"SprinkKing","error":"usernametakenalready"} |

Note:

-Modified the edit section server call such that you cannot modify the section id. Since it is a unique key and I do not want to verify at every attempt that the section is no there already. Will do the same for courses.