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| --- | --- | --- | --- | --- |
| **URL** | **Purpose** | **Type** | **Input** | **Returns** |
| /index | Login/Home Page | GET | None | The login/home page |
| /preferences | Preferences Page | GET | None | The preferences page |
| /schedule | Schedule Page | GET | None | The schedule page |
| /sequence | Course Sequence Page | GET | None | The course sequence page |
| /account | Account Page | GET | None | The account page |
| /admin | Admin Courses Page | GET | None | The admin courses page |
| /admincourse | Admin Edit Courses Page | GET | None | The admin edit courses page |
| /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 | ^ Similar output |
| /sectioncourse | Get all section in DB for the specified course | POST | $courseId=$\_POST('courseId'); | ^ Similar output |
| /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"} |

Output for the schedule

'{"schedule": [{"section":"S SB","sectionId":"28","classroom":"SGW-H-929","semester":"Winter","type":"Tutorial","dayOffered":"1","beginTime":"10:15:00","endTime":"11:55:00","courseId":"4","courseCode":"COMP 249","sectionNum":"2"},{"section":"S","sectionId":"35","classroom":"SGW-H-820","semester":"Winter","type":"Lecture","dayOffered":"13","beginTime":"08:45:00","endTime":"10:00:00","courseId":"4","courseCode":"COMP 249","sectionNum":"3"},{"section":"R RC","sectionId":"131","classroom":"SGW-MB-S1.105","semester":"Winter","type":"Tutorial","dayOffered":"5","beginTime":"14:15:00","endTime":"15:55:00","courseId":"40","courseCode":"ENGR 233","sectionNum":"1"},{"section":"R","sectionId":"150","classroom":"SGW-H-411","semester":"Winter","type":"Lecture","dayOffered":"24","beginTime":"11:45:00","endTime":"13:00:00","courseId":"40","courseCode":"ENGR 233","sectionNum":"1"},{"section":"H HC","sectionId":"59","classroom":"SGW-H-825","semester":"Winter","type":"Tutorial","dayOffered":"3","beginTime":"16:15:00","endTime":"17:55:00","courseId":"13","courseCode":"SOEN 228","sectionNum":"2"},{"section":"H","sectionId":"66","classroom":"SGW-MB-S2.210","semester":"Winter","type":"Lecture","dayOffered":"13","beginTime":"14:45:00","endTime":"16:00:00","courseId":"13","courseCode":"SOEN 228","sectionNum":"2"},{"section":"S SB","sectionId":"68","classroom":"SGW-H-917","semester":"Winter","type":"Tutorial","dayOffered":"4","beginTime":"10:15:00","endTime":"11:55:00","courseId":"15","courseCode":"SOEN 287","sectionNum":"1"},{"section":"S","sectionId":"73","classroom":"SGW-H-967","semester":"Winter","type":"Lecture","dayOffered":"24","beginTime":"08:45:00","endTime":"10:00:00","courseId":"15","courseCode":"SOEN 287","sectionNum":"1"}]}'

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.

//expected output for the course sequence, I need //$username=$\_POST['username'];

//$schedule=$\_POST['schedule'];

{"response" : [{"courseID":"3","semester":"Summer","year":"0","name":"Object-Oriented Programming II","courseCode":"COMP 249"},{"courseID":"38","semester":"Summer","year":"0","name":"Applied Advanced Calculus","courseCode":"ENGR 233"},{"courseID":"13","semester":"Winter","year":"0","name":"System Hardware","courseCode":"SOEN 228"},{"courseID":"14","semester":"Summer","year":"0","name":"Web Programming","courseCode":"SOEN 287"},{"courseID":"9","semester":"Summer","year":"1","name":"Principles of Programming Languages","courseCode":"COMP 348"},{"courseID":"11","semester":"Summer","year":"1","name":"Data Structures and Algorithms","courseCode":"COMP 352"},{"courseID":"41","semester":"Summer","year":"1","name":"Technical Writing and Communication","courseCode":"ENCS 282"},{"courseID":"32","semester":"Summer","year":"1","name":"Sustainable Development and Environmental Stewardship","courseCode":"ENGR 202"},{"courseID":"8","semester":"Winter","year":"2","name":"Operating Systems","courseCode":"COMP 346"},{"courseID":"44","semester":"Summer","year":"2","name":"Principles of Electrical Engineering","courseCode":"ELEC 275"},{"courseID":"47","semester":"Summer","year":"2","name":"Probability and Statistics in Engineering","courseCode":"ENGR 371"},{"courseID":"17","semester":"Winter","year":"2","name":"Introduction to Formal Methods for Software Engineering","courseCode":"SOEN 331"},{"courseID":"5","semester":"Fall","year":"3","name":"Introduction to Theoretical Computer Science","courseCode":"SOEN 335"},{"courseID":"19","semester":"Fall","year":"3","name":"Software Requirements and Specifications","courseCode":"SOEN 342"},{"courseID":"23","semester":"Fall","year":"3","name":"Management, Measurement and Quality Control","courseCode":"SOEN 384"},{"courseID":"50","semester":"Summer","year":"3","name":"Numerical Methods in Engineering","courseCode":"ENGR 391"},{"courseID":"20","semester":"Fall","year":"4","name":"Software Architecture and Design I","courseCode":"SOEN 343"},{"courseID":"134","semester":"Winter","year":"4","name":"User Interface Design","courseCode":"SOEN 357"},{"courseID":"53","semester":"Summer","year":"4","name":"Engineering Management Principles and Economics","courseCode":"ENGR 301"},{"courseID":"16","semester":"Fall","year":"4","name":"Information Systems Security","courseCode":"SOEN 321"},{"courseID":"21","semester":"Winter","year":"5","name":"Software Architecture and Design II","courseCode":"SOEN 344"},{"courseID":"22","semester":"Winter","year":"5","name":"Software Testing, Verification and Quality Assurance","courseCode":"SOEN 345"},{"courseID":"56","semester":"Summer","year":"5","name":"Impact of Technology on Society","courseCode":"ENGR 392"},{"courseID":"25","semester":"Winter","year":"6","name":"Software Engineering Team Design Project","courseCode":"SOEN 390"},{"courseID":"27","semester":"Fall-Winter","year":"7","name":"Capstone Software Engineering Design Project","courseCode":"SOEN 490"}]}