1. Goals and objectives of the web application

* Mangement course
* Sale and buy course
* Live study

1. System Functions

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| --- | --- | --- | --- | --- |
| Number | Functions | Description | Priority | Test |
| 1 | Login/ Sign-up | Allow user to login with username, password  Allow user sign-in with three role: teacher, student,admin common: username, password, email, role | High | None |
| 2 | Admin functions | Admin acc is create automatically, admin can login & logout Admin can view dashboard. Statistic of sold course data, posted courses ,income from sole courses by time (time line chart, percentage chart can choose duration)  There an export button Admin can management List students (index, id, email, identify number, number of course), List teacher (id, email, identify number, number of posted course), List course: (index, id, name, teacher, type, price, income, sold number) | High | None |
| 3 | Teacher functions | Teacher can login/logout, signup and modify profile  Teacher default view List course: add, delete. update  (index, id, name, type, price, income, sold number, action(view) | Medium | None |
| 4 | User functions | Student can login/logout, signup and modify profile (information (name, email, introduction text, language, link, picture, payment method) learning: display all course , status)  Student can view cource category, suggest course, search course  View a cource  Learning cource screen | Medium | None |

1. API List

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Number | Screen | API | Method | Input | Output | Note | |
| 1 | Sign in | /sign-in | Post | userName/email: string  password: string | Success/fail | |  |
| 2 | Sign up | /sign-up | Post | userName: string  password: string  role | Success/fail | |  |
| 3 | Admin dashboard screen |  |  |  |  | |  |
| 4 | Admin management screen | /student/all | Get | Params:  pageNumber: number  pageSize: number  Filter params: country:string  numberOfCompletedCourse: number numberOfOngoingCourse: number  paymentAmount:number | total:number  pageNumber: number pageSize: number data: [{  id: number name: string  email: string  country: string  numberOfCompletedCourse: number numberOfOngoingCourse: number  paymentAmount:number  paymentMethod: string  joinDate: date  updatedDate: date  }] | |  |
| /teacher/all | Get | Params:  pageNumber: number  pageSize: number  FilterParmas: country: string numberOfCourse: number incomeAmount: number | total: number  pageNumber: number pageSize: number data: [{  id:number name:string email:string  country:string  numberOfCourse: number incomeAmount: number  paymentMethod: string  joinDate: date  updatedDate: date }] | |  |
| /course/all | Get | Params:  pageNumber: number  pageSize: number  FilterParams:  category: string  evaluation: number  teacher: string name  teacherId: number  name: string | total: number  pageNumber: number pageSize: number data: [{  id: number  name: string  category: string  price: number  boughtNumber: number  income: number  shortDescription: string  teacherId: number  rank: number  status: string (use, unuse, delete)  }] | | Course content or course content id  Should create course content api |
| 5 | Teacher mainscreen | /course/all |  |  |  | | Defined in screen 4 |
| Course/delete | Post | Id | success | | Change status into delete |
| 6 | Teacher view course *s*creen | /course/register | Post | Payload Data:  name:string category: price: number status: string sessions: List<Session> | success | |  |
| /course/edit | Put | Payload Data:  **Id: courseId**  name:string category: price: number status: string  textContent: string sessions: List<Session> | success | |  |
| /getCourseEvaluations | Get | Params:  courseId:number | Total: number  pageNumber: number  pageSize: number  evaluations:[{  student:{  name: string,  country: string,  picture: file  }  updatedDate: date,  comment: string,  rank:number  }] | |  |
| /PostComment | Post | Payload Data:  { comment: string,  roleId: number,  role: string  courseId:number  } | success | |  |
| /course? | Get | Params id:string  Role: string | {  id: number  name: string  category: string  price: number  boughtNumber: number  income: number  teacherId: number  rank: number  status: string  sessions: List <Session>  thumbnailPicture: file  } | |  |
| 7 | Student main screen | /getOngoingCourses? | Get | Params:  studentID | Total:number pageNumber: number  pageSize: number  courses: [{  id: number name: shortDescirption  rank:  thumbnailPicture: file  }] | |  |
| /getViewingCourse? | Get | Params:  studentID |  | |  |
| /getSuggesstionCourses? | Get | Params:  studentID |  | |  |
|  |  | /searchCourse | Get | Params: keywords | Total: number pageNumber: number  Pagesize: number  Courses: [{  }] | |  |
|  |  | /course? |  | Params id:string  Role: string |  | |  |
| 8 | Student profile screen | /student? | Get | Params:  studentID | { name: string  email: string  country: string  language  picture  numberOfCompletedCourse: number numberOfOngoingCourse: number  paymentAmount:number  paymentMethod: string  } | | This api for student infomation |
| /getOngoingCourses?Id=”StudentId” | Get | Params:  studentId: string | Total:number  {} | |  |
| 9 | Student view course | /getCourseEvaludations | Get |  |  | |  |
| /course? | Get |  |  | |  |
| /getCourseSuggesstion? studentId=”” | Get | Params:  studentId:number |  | |  |
| /getRelatedCourse?courseId | Get | Params:  courseId: number |  | |  |
|  |  | getCategory | Get |  |  | |  |