**API Specification Doc**

**(*School Management App*)**

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Methods

## 1. login

Authenticate the user with the system and obtain the auth\_token

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/login/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST  POST | object  username  password | **application/json**  string  string |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "email": “string”,  "password": “string”,  "type": “string”, ex: (superAdmin,admin,student,employee)  } |
| 403 | {"error":"data is missing."} |
| 400 | {"error":"Please provide username."} |
| 400 | {"error":"Please provide password."} |
| 401 | {"error":"Incorrect username or password."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 

## 2. School Registration(Only Super admin can register)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/schoolRegistration' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | object  {  schoolName:string,  schoolID:string,  email:string,  registrationDate:string,  amount:string,  location:string,  type:string,  ownerName:string,  ownerCNIC:string,  } | **application/json**  object |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **School Created** **Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 400 | {"error":"Please provide username."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 3. Employee Registration(Only School Admin can register)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/employeeRegistration' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | object  {  email: { type: String, unique: true },  password: { type: String,unique: false },  employeeName: { type: String,unique: false },  fatherName: { type: String,unique: false },  registrationDate: { type: String,unique: false },  type: { type: String,unique: false },  employeeType: { type: String,unique: false },  employeeID: { type: String,unique: false },  schoolID: { type: String,unique: false },  salary: { type: String,unique: false },  } | **application/json**  object |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Employee Registration Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 400 | {"error":"Please provide username."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 4. Student Registration(Only School Admin can register)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/studentRegistration' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | object  {  email: { type: String, unique: true },  password: { type: String,unique: false },  studentName: { type: String,unique: false },  fatherName: { type: String,unique: false },  registrationDate: { type: String,unique: false },  type: { type: String,unique: false },  class: { type: String,unique: false },  schoolID: { type: String,unique: false },  QRno: { type: String,unique: false },  studentFees: { type: String,unique: false },  } | **application/json**  object |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Student Registration Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 400 | {"error":"Please provide username."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 5. Attendance Submit of Employee (Only School Admin can Submit)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | ‘/api/attendanceSubmit’ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | object  {  email: { type: String },  attendanceDate: { type: String },  attendance: { type: String },  employeeID: { type: String },  employeeName: { type: String },  employeeType: { type: String },  schoolID: { type: String },  month: { type: String },  year: { type: String },  } | **application/json**  object |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Attendance Submitted** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 400 | {"error":"Please provide username."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 6. Fees Submit of Student (Only School Admin can Submit)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/feesSubmit' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | object  {  email: { type: String },  studentName: { type: String },  fatherName: { type: String },  submitionDate: { type: String },  QRno: { type: String },  class: { type: String },  schoolID: { type: String },  studentFees: { type: String },  month: { type: String },  year: { type: String },  } | **application/json**  object |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Fees Submitted** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 400 | {"error":"Please provide username."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 7. Salary Submit of Employee (Only School Admin can Submit)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/salarySubmit' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | object  {  employeeID: { type: String },  email: { type: String },  employeeName: { type: String },  submitionDate: { type: String },  employeeType: { type: String },  schoolID: { type: String },  salary: { type: String },  month: { type: String },  year: { type: String },  } | **application/json**  object |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Salary pay Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 400 | {"error":"Please provide username."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 8. View/Delete Schools(Only Super Admin can use this api)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/viewSchool' |
| **DELETE** | '/api/schoolDelete' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | null | Null |
| DELETE | <\_id> | String |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **(POST) -> An Array of objects containing the data of all school**  Example response:-  {  email: { type: String, unique: true },  password: { type: String,unique: false },  schoolName: { type: String,unique: false },  registrationDate: { type: String,unique: false },  amount: { type: String,unique: false },  location: { type: String,unique: false },  type: { type: String,unique: false },  schoolID: { type: String,unique: false },  ownerName: { type: String,unique: false },  ownerCNIC: { type: String,unique: false }  } |
| 200 | **(Delete) -> School deleted Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 9. View/Delete Employee(Only School Admin can use this api)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/employeeDetail' |
| **DELETE** | '/api/employeeDelete' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | null | Null |
| DELETE | <\_id> | String |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **(POST) -> An Array of objects containing the data of all Employee**  Example response:-  {  email: { type: String, unique: true },  password: { type: String,unique: false },  employeeName: { type: String,unique: false },  fatherName: { type: String,unique: false },  registrationDate: { type: String,unique: false },  type: { type: String,unique: false },  employeeType: { type: String,unique: false },  employeeID: { type: String,unique: false },  schoolID: { type: String,unique: false },  salary: { type: String,unique: false },  } |
| 200 | **(Delete) -> Employee deleted Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 10. View/Delete Student(Only School Admin can use this api)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/viewSchool' |
| **DELETE** | '/api/schoolDelete' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | null | Null |
| DELETE | <\_id> | String |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **(POST) -> An Array of objects containing the data of all student**  Example response:-  {  email: { type: String, unique: true },  password: { type: String,unique: false },  studentName: { type: String,unique: false },  fatherName: { type: String,unique: false },  registrationDate: { type: String,unique: false },  type: { type: String,unique: false },  class: { type: String,unique: false },  schoolID: { type: String,unique: false },  QRno: { type: String,unique: false },  studentFees: { type: String,unique: false },  } |
| 200 | **(Delete) -> Student deleted Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 11. View Attendance Record(School Admin and Employee can use this api)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/attendanceRecord' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | object | {search with many filters} |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **(POST) -> An Array of objects**  Example response:-  {  email: { type: String },  attendanceDate: { type: String },  attendance: { type: String },  employeeID: { type: String },  employeeName: { type: String },  employeeType: { type: String },  schoolID: { type: String },  month: { type: String },  year: { type: String },  } |
| 200 | **() -> Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 12. View Fees Record(School Admin and Student can use this api)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/feesRecord' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | object | {search with many filters} |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **(POST) -> An Array of objects**  Example response:-  {  email: { type: String },  studentName: { type: String },  fatherName: { type: String },  submitionDate: { type: String },  QRno: { type: String },  class: { type: String },  schoolID: { type: String },  studentFees: { type: String },  month: { type: String },  year: { type: String },  } |
| 200 | **() -> Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 13. View Salary Record(School Admin and Employee can use this api)

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | '/api/salaryRecord' |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | object | {search with many filters} |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **(POST) -> An Array of objects**  Example response:-  {  email: { type: String },  attendanceDate: { type: String },  attendance: { type: String },  employeeID: { type: String },  employeeName: { type: String },  employeeType: { type: String },  schoolID: { type: String },  month: { type: String },  year: { type: String },  } |
| 200 | **() -> Successfully** |
| 400 | {"error":"Please specify database version."} |
| 403 | {"error":"data is missing."} |
| 404 | {"error":"Network error."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## Conventions

* **Client** - Client application.
* **Status** - HTTP status code of response.
* All the possible responses are listed under ‘Responses’ for each method. Only one of them is issued per request server.
* All response are in JSON format.
* All request parameters are mandatory unless explicitly marked as [optional]
* The type of values accepted for a *request* parameter are shown the the values column like this [**10**|<any number>] .The | symbol means *OR*. If the parameter is [optional], the default value is shown in blue bold text, as **10** is written in [**10**|<any number>].

## Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success of some kind

4XX - Error occurred in client’s part

5XX - Error occurred in server’s part

|  |  |
| --- | --- |
| **Status Code** | **Description** |
| 200 | OK |
| 201 | Created |
| 202 | Accepted (Request accepted, and queued for execution) |
| 400 | Bad request |
| 401 | Authentication failure |
| 403 | Forbidden |
| 404 | Resource not found |
| 405 | Method Not Allowed |
| 409 | Conflict |
| 412 | Precondition Failed |
| 413 | Request Entity Too Large |
| 500 | Internal Server Error |
| 501 | Not Implemented |
| 503 | Service Unavailable |