TECHNICAL USER MANUAL

Unicus X School Management System

Release – 1.0
Date: 09/05/2024

GENERAL INFORMATION

1.1 System Overview

A student management system:

- A software system based on a web application.
- Graphical User Interface for interacting with the system
- Technology stack: Next.js , PrismaDB
- Development Method : Template edit for provided User Interfaces
- System name or title: UNICUS X SCHOOL MANAGEMNT SYSTEM
- System code: Windows
- System category:
  SCHOOL MANAGEMNT SYSTEM: A School Management System (SMS) is a software application designed to streamline the administration, operations, and communication within an educational institution. It acts as a central hub for managing various aspects of school life.

- Operational status:
  Operating according to the requested UI. The provided UI's are fully functional according to the given scenarios.

1.2 Local server system requirements
- **System** :   Windows 10 (minimum)
- **Hardware** :   8 GB RAM
  - 128 GB SSD
- **Processor**   Intel corei3 8th generation 3.6GHz
- **Software** :   XAMPP Control Pannel v.3.3.0
  - MySQL Workbench 8.0 CE
  - Postman v10.24.0
- **Tech Stack** :   Next.js v14.2.3
  - Node.js v20.12.2

GETTING STARTED AS A UNICUS X ADMIN

2.1 Log In to the account.
- Log in to the account by using provided User ID and Password.

2.2 Sidebar Menu
Institute
      i. Get the system users by top cards.
     ii. Create a Institute by using Add new institute button.
   iii. Fill the form and save to create a institute.
   iv. Use view action to show the data.
     v. Use edit action to edit the created institute.
   vi. Use delete action and confirm to delete a institute.

Subject
      i. Add a Subject by using Add new subject button.
     ii. Fill the form and save to create a subject.
   iii. Use view action to show the data.
   iv. Use edit action to edit the created subject.
     v. Use delete action and confirm deleting a subject.

Access
      i. Select the Institute, Type and User from dropdown menu and click filter.
     ii. Use actions to change the passwords and click save button to save the changed password.

2.3 Exit System
- Click on the log out button and confirm the logout process.

GETTING STARTED AS A INSTITUTE ADMIN

3.1 Log in
- Log in to the account by using provided User ID and Password.

3.2 Add Subjects
- Add the subject you need to in your institute by clicking the activate button.

3.3 Term
- Add suitable term by adding starting date and ending date. Use add new term button and fill the form accordingly to create a new term.

3.4 Sign
- Filter out the necessary classes by using filters and sign for the reports of entire class as a principle.

3.5 Resignation
- Filter out the necessary user using search filter and resign them from the school.

3.6 Student
- Filter out the already added students using search filter.
- Add a new student into institute by using add new student button.
- Fill the add new student form correctly.*(Student NIC is not important, But if there is the Student NIC it will be the Password for student, Other than Guardian NIC will be the password for the student.)*
- Check out the student information by using view action.
- Edit the student information by using edit action.

3.7 Teacher
- Filter out the already added teachers using search filters.
- Add a new teacher into school by using add new teacher button.
- Fill the add new teacher form correctly. *(Same class cant hold two class teachers at the same time)*
- Check out the teacher information by using view action.
- Edit the teacher information by using edit action.

3.8 Principal
- Filter out the already added principals using search filters.
- Add a new principal into school by using add new principal button.
- Fill the add new principal form correctly.
- Check out the principal information by using view action.
- Edit the principal information by using edit action.

3.9 Exit System

- Click on the log out button and confirm the logout process.

GETTING STARTED AS A CLASS TEACHER

4.1 Log in
- Log in to the account by using provided User ID and Password.

4.2 Add Subjects
- Filter out the necessary class and subject using search filter
- Add the subjects to students you want by clicking the add button.

4.3 Marks
- Filter out the necessary class and subject using search filter.
- Add marks using add marks button or mark as absent by clicking absent button.*(Teachers can edit marks only until principal sign the report.)*

4.4 Sign
- Filter out the necessary classes by using filters and sign for the reports of students as a class teacher.

4.5 Exit System
- Click on the log out button and confirm the logout process.

GETTING STARTED AS A SUBJECT TEACHER

5.1 Log in

- Log in to the account by using provided User ID and Password.

5.2 Marks

- Filter out the necessary class and subject using search filter.
- Add marks using add marks button or mark as absent by clicking absent button.*(Teachers can edit marks only until principal sign the report.)*

5.3 Exit System

- Click on the log out button and confirm the logout process.

GETTING STARTED AS A STUDENT

6.1 Log in
- Log in to the account by using provided User ID and Password.

6.2 Dashboard
- Filter out the necessary grade and term using search filter.
- Check your reports and download.

6.3 Exit System
- Click on the log out button and confirm the logout process.

Please note that, You should logout from the system every time after your interaction with the system. System only automatically logout after 24 hours.

LOCAL SERVER INSTALLATION GUIDE

- Install the XAMPP control panel.
- Install MySQL Workbench.
- Install the Postman.
- Open the XAMPP control panel and start the Apache and MySQL modules.
- Create a MySQL workbench connection named "unicus_x".

- Pull out the code from the git repository.
- Open the code in visual studio code.
- Open a new terminal.

- Run the command "`npm install`"
- Run the command "`npx prisma migrate dev --name init`"
- Run the command "`npm run dev`"

- Open the Postman.
- Send a POST update through body using below given details.
  - URL: http://localhost:3000/api/user
  - Body:

        {
        "name": "admin",
        "password": "admin"
        }

- Now you ready to work in the system, Log In to the system by giving USX1 as user name and password you have passed using postman as password.

NOTE THAT THESE ARE THE INSTALLATION STEPS TO RUN YOUR SYSTEM ONLY IN YOUR LOCAL SERVER