

# **SYSTEM DOCUMENTATION**

Student information system

## SOFTWARE AND HARDWARE REQUIREMENTS

### Software

- Web browser (Google chrome, IE, Opera, Microsoft edge).
- Local web server (Xampp Apache) >= version 8.0.  
Download - <https://www.apachefriends.org/>
- Application dependency manager for PHP. (composer).  
Download - <https://getcomposer.org/>
- Windows operating system (windows 10 of higher recommended).
- PHP version >= 8.00

### Hardware (Minimum requirements)

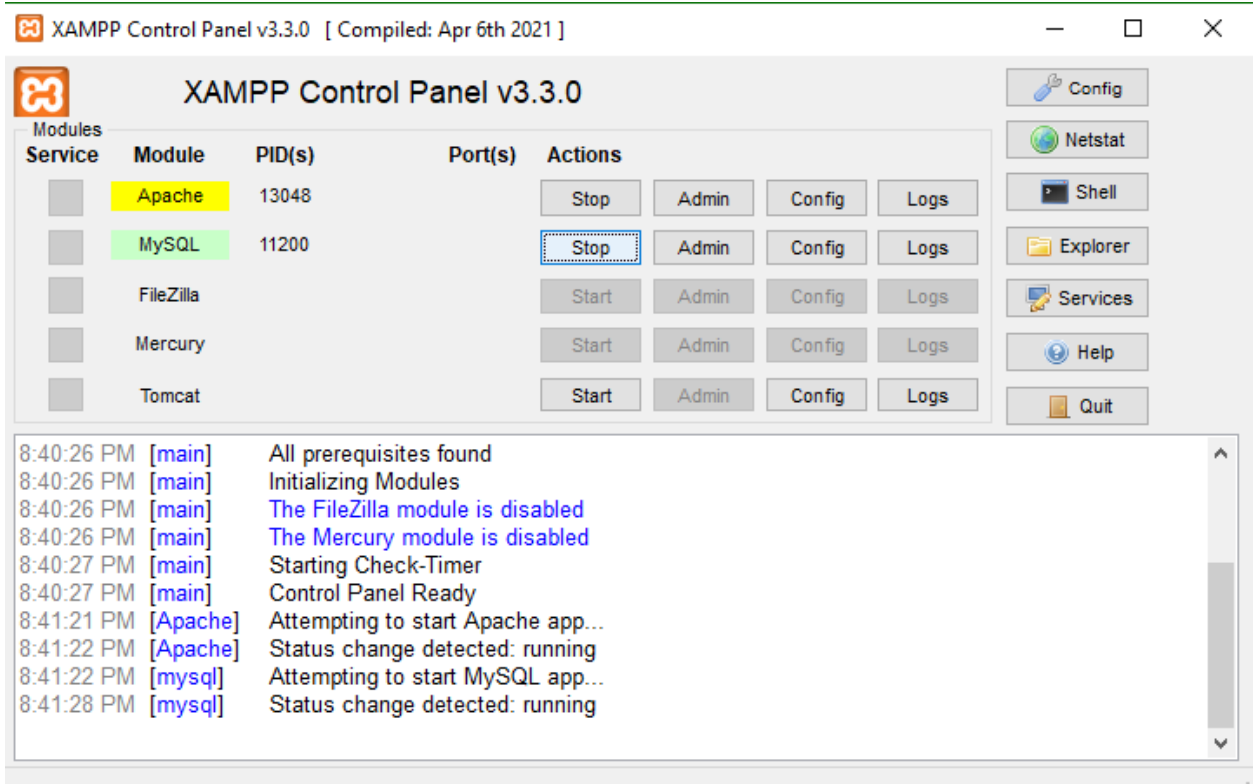
- Processor Intel(R) Pentium(R) CPU N3710 @ 1.60GHz 1.60 GHz or higher
- Installed RAM 4.00 GB (3.84 GB usable) or higher

### Frameworks/libraries.

- Laravel v.8 - Laravel is a free and open-source PHP web framework, created by Taylor Otwell and intended for the development of web applications following the model–view–controller (MVC) architectural pattern and based on Symfony.  
<https://laravel.com/docs/8>
- Bootstrap 5 - Bootstrap is a free, open-source front-end development framework for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs.  
<https://getbootstrap.com/docs/5.3/getting-started/introduction/>
- JQuery-3-5-1 - is a lightweight, "write less, do more", JavaScript library. The purpose of jQuery is to make it much easier to use JavaScript on your website. jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.  
<https://jquery.com/>
- Fullcalendar.js. - is a JavaScript library that seamlessly integrates with such popular JavaScript frameworks as Vue, React, Angular. Thanks to its excellent documentation, one won't have trouble incorporating the library into projects.  
<https://fullcalendar.io/>

## Getting started – Installation

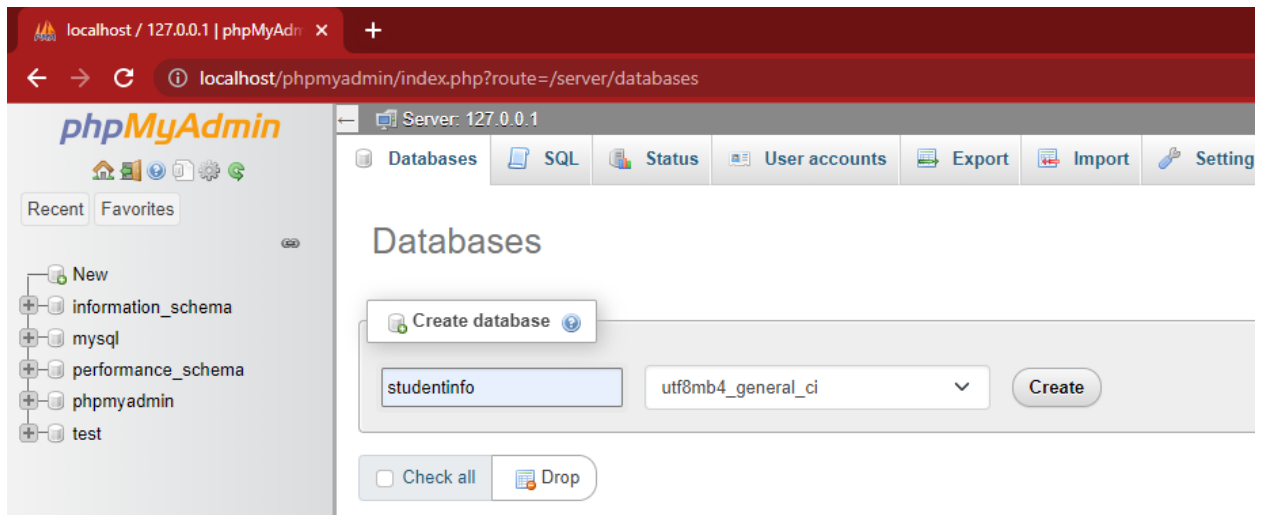
1. After Satisfying the minimum software and hardware requirements download and extract the zip file in this link.
2. We need to setup our local web server to run our database. After installing xampp, open the xamp-control-panel and start apache and mysql.



3. Open the browser the go to [localhost/dashboard](http://localhost/dashboard) and click “phpMyAdmin”.



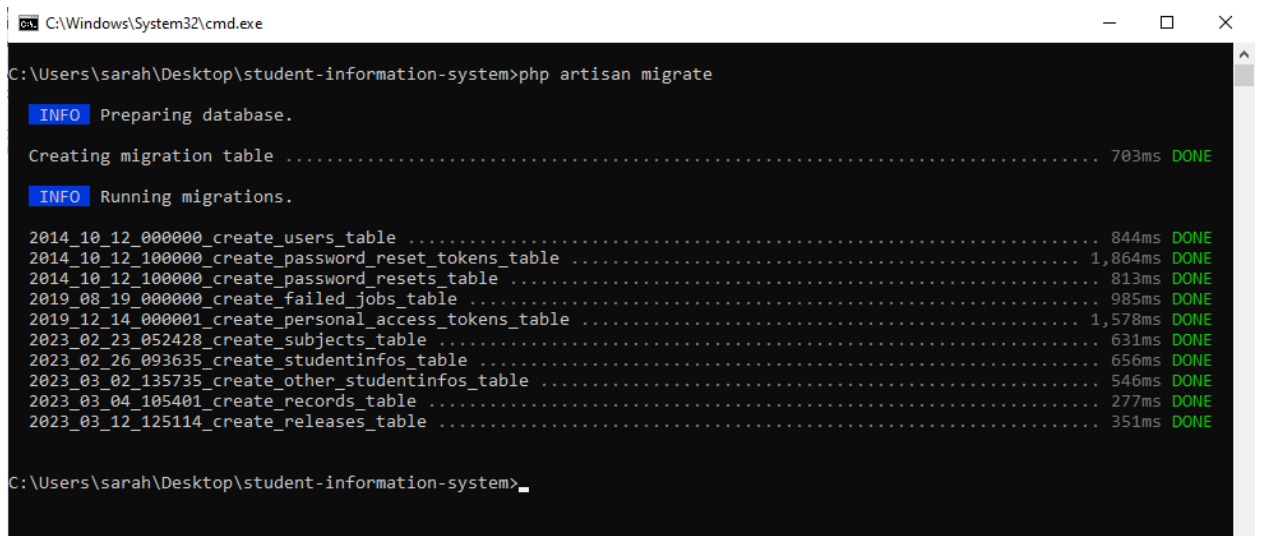
4. Create a new database and name "studentinfo".



5. After successfully creating a database. Open the command prompt at the project's directory.

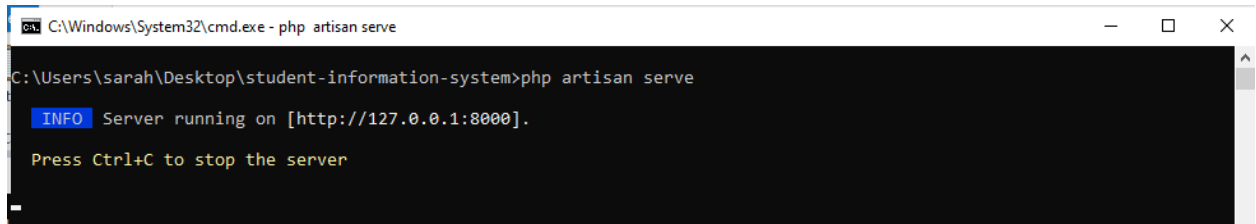


6. Using the command "php artisan migrate" it will automatically create tables in our database.



Your terminal should contain like this, to ensure that the migration is successful.

7. After migrating database files. Now, we can run the application using the command “php artisan serve”.



```
C:\Windows\System32\cmd.exe - php artisan serve

C:\Users\sarah\Desktop\student-information-system>php artisan serve

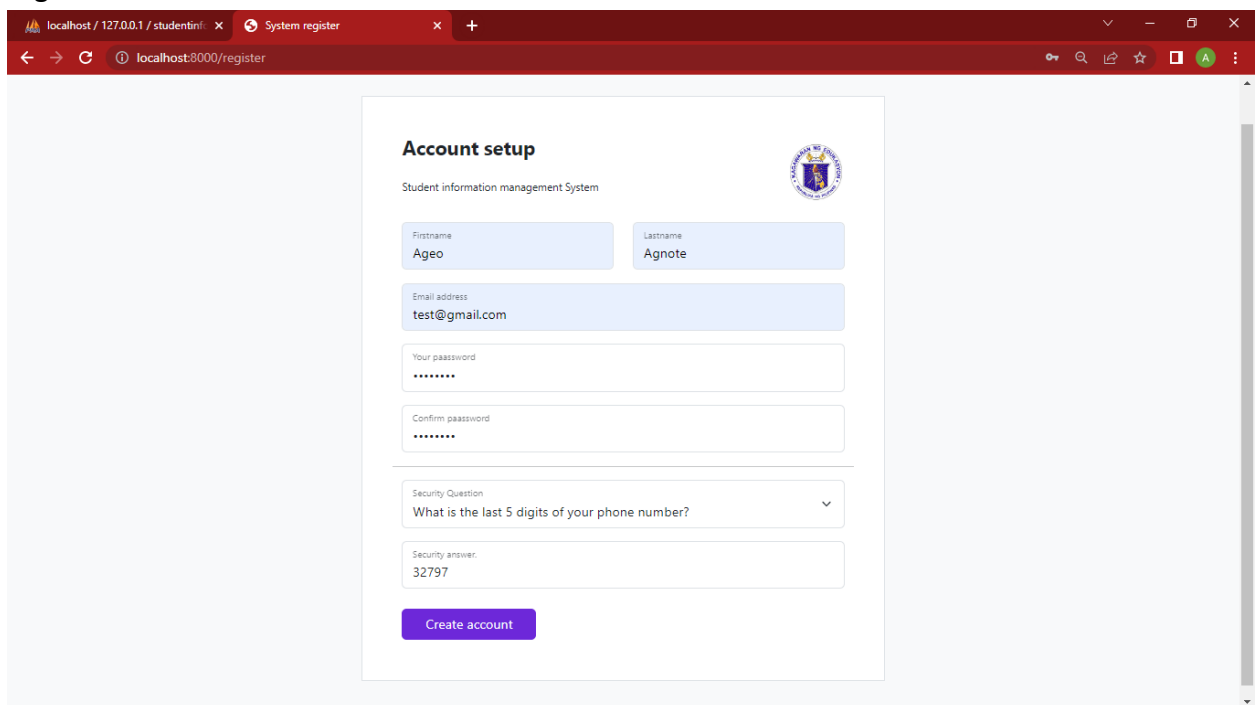
[INFO] Server running on [http://127.0.0.1:8000].

Press Ctrl+C to stop the server
```

After running the command, we should be able to see this in our terminal, if yes then we can navigate to <http://127.0.0.1:8000> or <http://localhost:8000>.

## Application Usage

1. For every time that we are going to use the application, we need to repeat the step no. 2, 5 and 7 in installation manual. If this is the first time of using the application, we will be automatically redirected to <http://localhost:8000/register> to setup our account if not to <http://localhost:8000/login>.
2. For setting up an account. We need to fill up all necessary fields to complete registration.

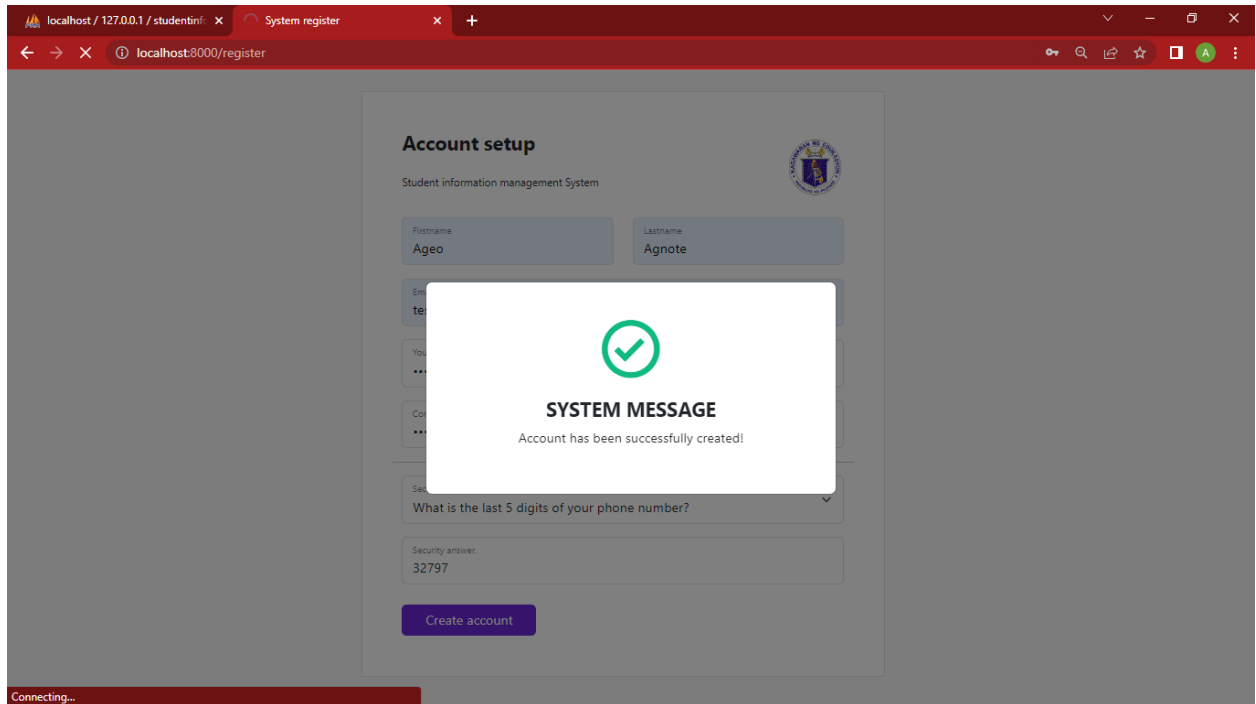


The screenshot shows a web browser window with the address bar displaying 'localhost:8000/register'. The page title is 'System register'. The main content area is titled 'Account setup' and includes the text 'Student information management System' and a university logo. The form contains the following fields:

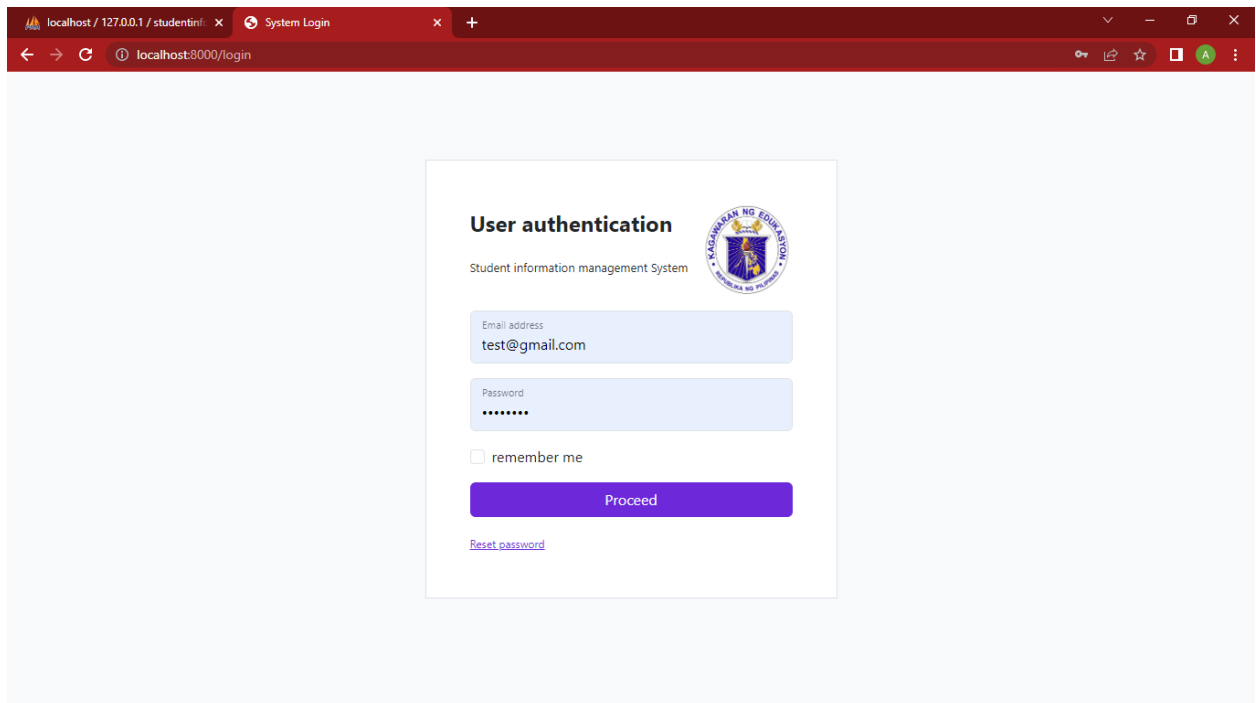
- Firstname: Ageo
- Lastname: Agnote
- Email address: test@gmail.com
- Your password: (masked with dots)
- Confirm password: (masked with dots)
- Security Question: What is the last 5 digits of your phone number?
- Security answer: 32797

A purple 'Create account' button is located at the bottom of the form.

If success we should be able to see a message presented below. And be automatically redirected to <http://localhost:8000/login>.



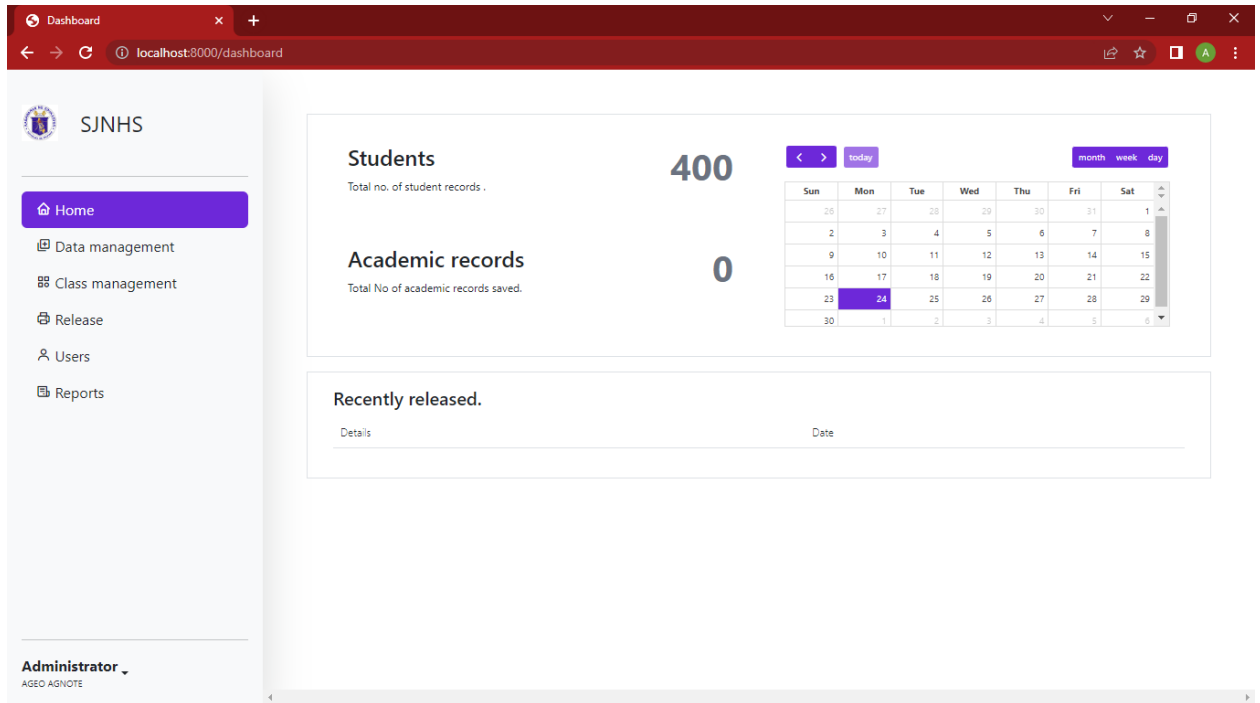
3. <http://localhost:8000/login>, here we will be able to see email and password fields for user authentication.



4. After logging in we, should be redirected to <http://localhost:8000/dashboard> or like the image below, which contains a side bar menu (Home, data management and release) at

the left side and the main content section to the right side. In home menu we should be able to see some basic information's about the collections of data in our database.

- a. Students – refers to the no. of student record in our database.
- b. Academic records - refers to the no. of academic records in our database.
- c. Recently release – show the list of record that has been recently released.
- d. Class management– managing class(creating and assigning students, subjects).
- e. Users – managing users.
- f. Reports – generating reports.



5. When managing or adding a new subject/student we can simply click the data management link in the side bar menu. To manage subjects, click the manage subject button in the upper right. While in creating a student record click the add student button in the upper left of the main content section of the page.

The screenshot shows the 'Data management' section of the SJNHS application. The 'Students' tab is active, displaying a table of student records. The table has columns for LRN, Full name, Sex, and Action. There are 8 students listed. The interface includes a sidebar with navigation links (Home, Data management, Release) and a top bar with the application name and user role (Administrator).

| LRN          | Full name                      | Sex    | Action                |
|--------------|--------------------------------|--------|-----------------------|
| 352789543691 | Grimes, Rosendo Harvey.        | Female | [Edit] [Delete] [Add] |
| 150183273725 | Tremblay, Karolann Dlibert.    | Male   | [Edit] [Delete] [Add] |
| 171723867125 | Rempel, Kaelyn Weber.          | Female | [Edit] [Delete] [Add] |
| 325799510507 | Abernathy, Ezequiel Ankunding. | Male   | [Edit] [Delete] [Add] |
| 343479715067 | Koepp, Brain Turner.           | Female | [Edit] [Delete] [Add] |
| 564132319724 | Hickle, Isaiah Hudson.         | Male   | [Edit] [Delete] [Add] |
| 572054219948 | Ebert, Christina Dare.         | Female | [Edit] [Delete] [Add] |
| 716003626922 | O'Conner, Jefferey White.      | Male   | [Edit] [Delete] [Add] |

We should be able to see image below. In this URL - <http://localhost:8000/data-management/subjects> we are allowed to perform create, read, update and delete operations.

The screenshot shows the 'Data management / Subjects' section of the SJNHS application. The 'Subjects' tab is active, displaying a table of subject records. The table has columns for Subject, Unit, Date created, and Action. There are 2 subjects listed. The interface includes a sidebar with navigation links (Home, Data management, Release) and a top bar with the application name and user role (Administrator).

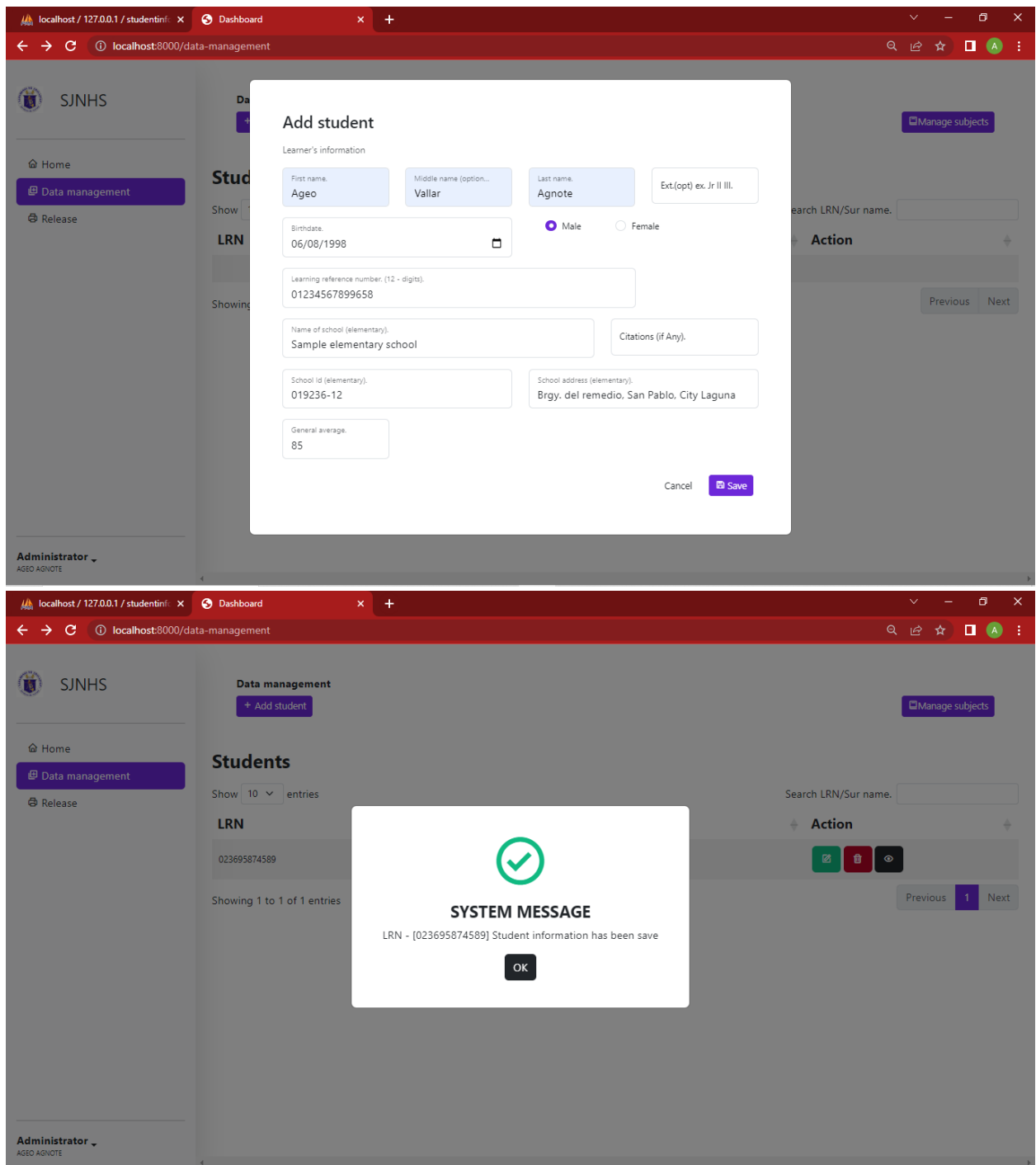
| Subject             | Unit | Date created | Action          |
|---------------------|------|--------------|-----------------|
| ENG-7<br>ENGLISH 7  | 3    | 2023-03-16   | [Edit] [Delete] |
| FIL-7<br>FILIPINO 7 | 3    | 2023-03-16   | [Edit] [Delete] |

Showing 1 to 2 of 2 entries

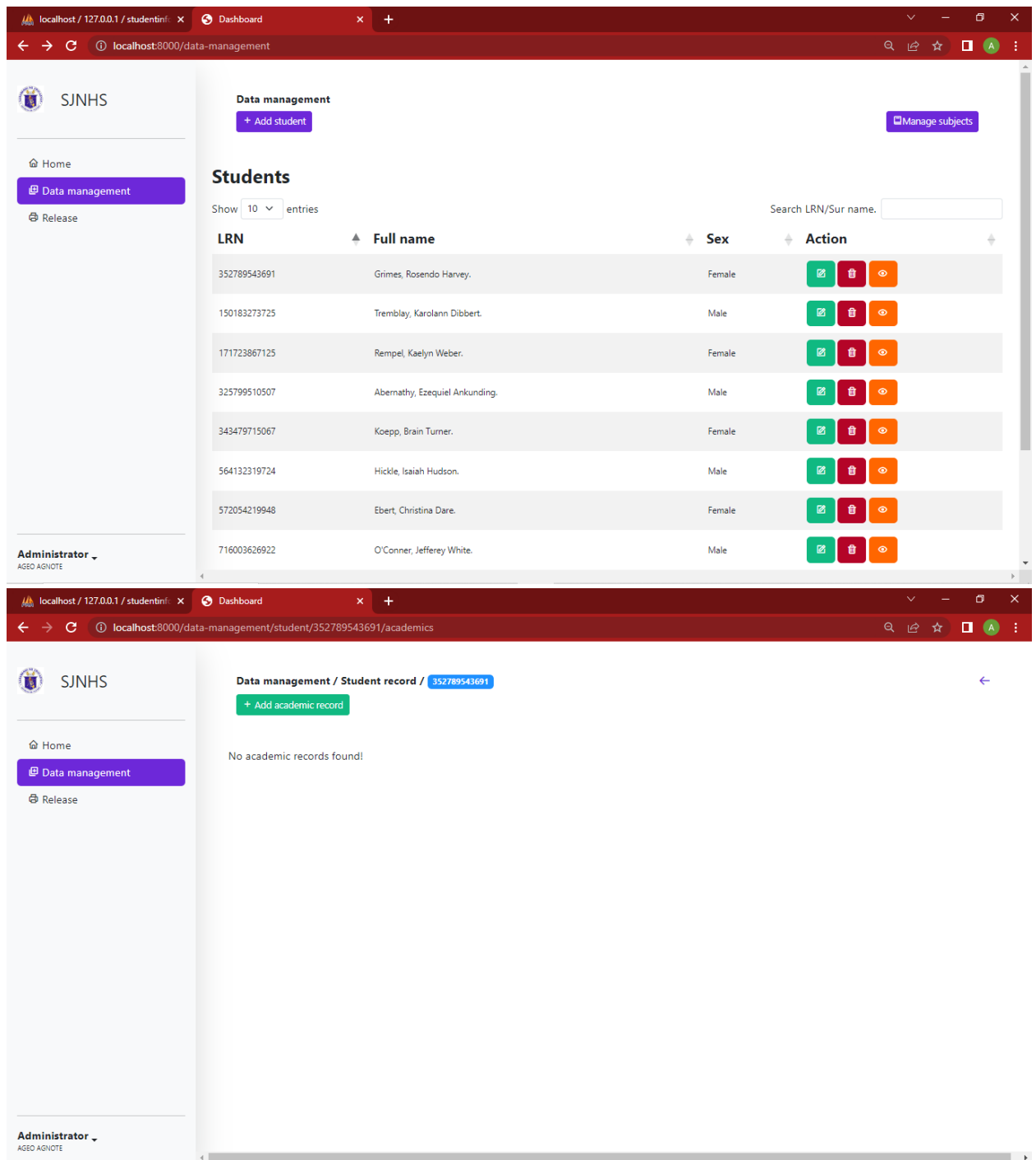
Previous 1 Next

In creating student record just simply fill all necessary fields.





- To Update and to add academic records to a student record. We can simply click the green button in action column and we will be redirected to a new page containing editable fields for the record and a button in the upper left for viewing/managing academic records of the selected student record.



After clicking the view records, we should be able to see the image above. And to add a new academic record for the selected student simply click the add academic record. A modal will popup containing fields for the academic record.

**Add Student Record**

352789543691  
GRIMES ROSENDO

School name: DON ENRIQUE BAUTISTA ELEMEI  
School id: 019231-12  
District: I  
Division: II  
Region: 4-A

Classified as grade: Grade 7  
Section: EMERALD  
School year: 2012-2013  
Adviser/Teacher name: MR. MANALOTO REYMAR

**Add row** (use default subjects)

| Learning areas | Quarter rating |   |   |   | Final rating |
|----------------|----------------|---|---|---|--------------|
|                | 1              | 2 | 3 | 4 |              |
|                |                |   |   |   |              |

**Add row**

Remediation classes

Conducted from: dd/mm/yyyy To: dd/mm/yyyy

| Remedial classes (Learning Areas) | Final rating | Remedial class mark | Recomputed final grade | Remarks |
|-----------------------------------|--------------|---------------------|------------------------|---------|
|                                   |              |                     |                        |         |

**Cancel Save**

To add this academic record, we should fill up all the necessary fields that system needs you to fill out or else it will show you the errors.

**Add Student Record**

352789543691  
GRIMES ROSENDO

School name: DON ENRIQUE BAUTISTA ELEMEI  
School id: 019231-12  
District: I  
Division: II  
Region: 4-A

Classified as grade: Grade 7  
Section: EMERALD  
School year: 2012-2013  
Adviser/Teacher name: MR. MANALOTO REYMAR

**Add row** (use default subjects)

Learning areas is required and Quarter rating must be in numeric values.(max 100.00)

| Learning areas | Quarter rating |   |   |   | Final rating     |
|----------------|----------------|---|---|---|------------------|
|                | 1              | 2 | 3 | 4 |                  |
| ENGLISH 7      |                |   |   |   | (AUTO-GENERATED) |
| FILIPINO 7     |                |   |   |   | (AUTO-GENERATED) |

**Add row**

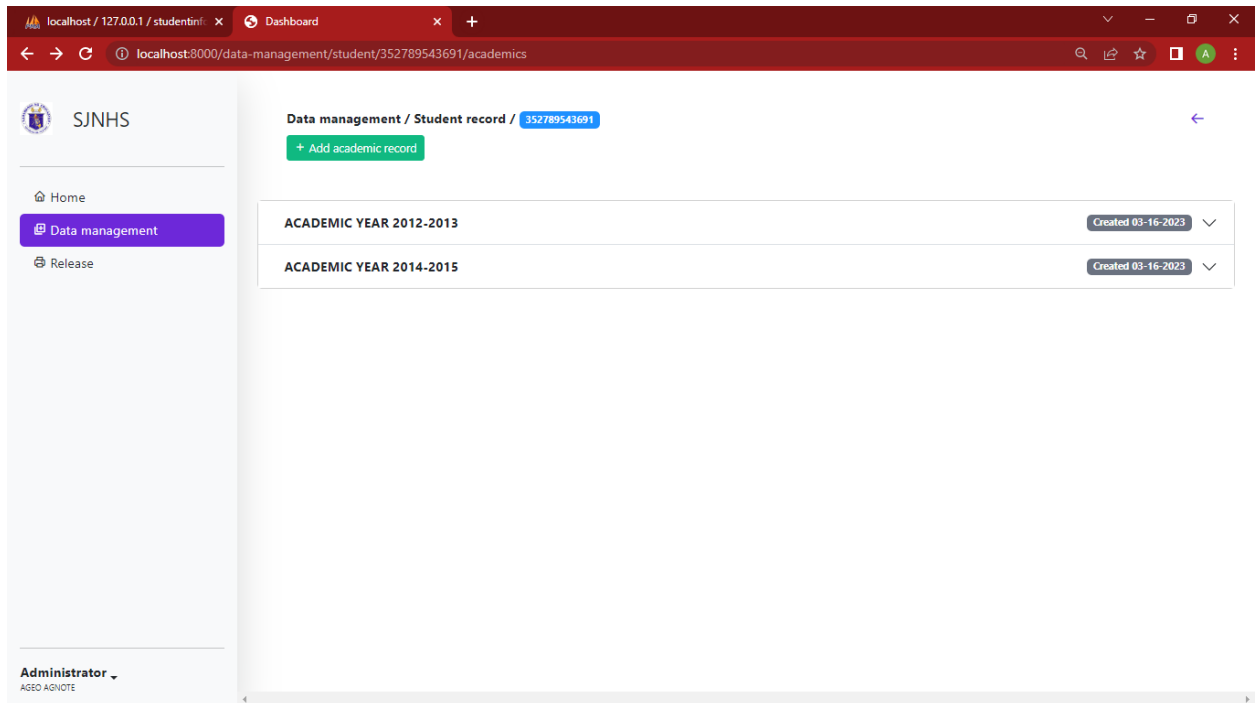
Remediation classes

Conducted from: dd/mm/yyyy To: dd/mm/yyyy

| Remedial classes (Learning Areas) | Final rating | Remedial class mark | Recomputed final grade | Remarks |
|-----------------------------------|--------------|---------------------|------------------------|---------|
|                                   |              |                     |                        |         |

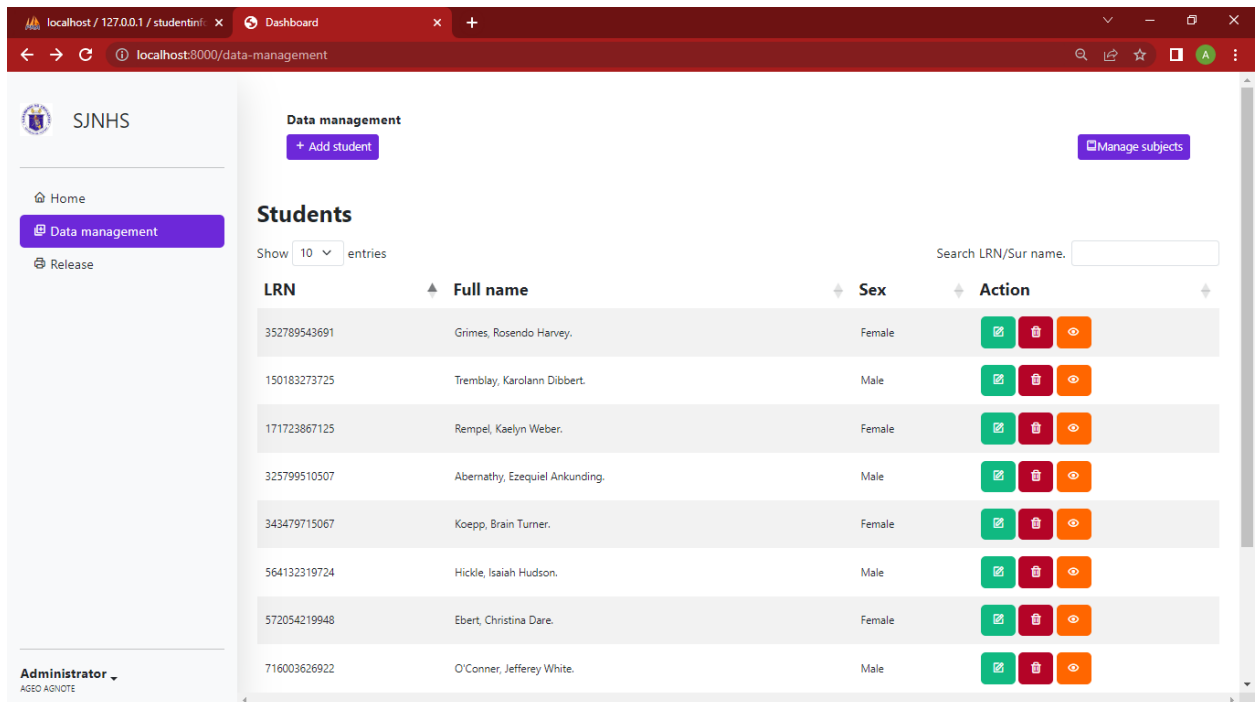
Learning areas are required and the values for the quarterly rating should be in non-negative numerical values. Here final rating is automatically generated when saved. Adding remedial records is same as adding a row in academic records but the most of the values are optional.





Here we can see a list of collapsible items that if we click it, we should be able to see the data of academic record, edit and delete button on the upper right of the collapsible item.

- To view and print a student record. We can click the orange button in action column. It will open a new tab containing all the data of the record.



localhost / 127.0.0.1 / studentinf: x Dashboard x 352789543691 x +

localhost:8000/data-management/student/352789543691/show

SF10-JHS

Republic of the Philippines  
Department of Education  
Learner Permanent Record for Junior High School(SF10-JHS)  
(Formerly Form 137)

**LEARNER'S INFORMATION**

LASTNAME: Grimes FIRSTNAME: Rosendo NAME EXT. (jr, l, II): MIDDLE NAME: Harvey  
Learner Reference Number (LRN): 352789543691 Birthdate (mm/dd/yyyy): 1993-06-11 Sex: F

**ELIGIBILITY FOR JHS**

Elementary school completer General average: 87.00 Citations (if Any):  
Name of Elementary School: Autem puod aut corrupti School ID: 427833 Address of School: N/A  
Other Credential Presented  
PEPT PASSER Rating: ALS A/E PASSER Rating: Other (PLs. specify):  
Date of Examination/Assessment (mm/dd/yyyy): Name and Address of Testing Center:

**SCHOLASTIC RECORD**

School: Don Enrique Bautista elementary school School ID: 019231-12 District: I Division: II Region: 4-A  
Classified as Grade: 7 Section: emerald School year: 2012-2013 Name of Adviser/teacher: MR. MANALOTO REYMAR Signature:

| Learning Areas                            | Quarterly Rating |    |    |    | FINAL RATING | REMARKS |
|---|------------------|----|----|----|--------------|---------|
| FILIPINO                                  | 90               | 75 | 78 | 85 | 82           | PASSED  |
| ENGLISH                                   | 85               | 89 | 96 | 78 | 87           | PASSED  |
| MATHEMATICS                               | 96               | 78 | 85 | 78 | 84.25        | PASSED  |
| SCIENCE                                   | 77               | 85 | 82 | 78 | 80.5         | PASSED  |
| ARALING PANLIPUNAN (AP)                   | 82               | 85 | 78 | 93 | 84.5         | PASSED  |
| EDUKASYON SA PAGPAKATAO (ESP)             | 78               | 85 | 78 | 85 | 81.5         | PASSED  |
| TECHNOLOGY AND LIVELIHOOD EDUCATION (TLE) | 75               | 75 | 96 | 63 | 77.25        | PASSED  |
| MUSIC                                     | 78               | 85 | 96 | 96 | 88.75        | PASSED  |
| ARTS                                      | 78               | 88 | 82 | 82 | 82.5         | PASSED  |

Here we have the options to directly print the page by pressing (**CTRL + P**) or save it as a pdf like the image below).

localhost / 127.0.0.1 / studentinf: x Dashboard x 352789543691 x +

localhost:8000/data-management/student/352789543691/show

SF10-JHS

Republic of the Philippines  
Department of Education  
Learner Permanent Record for Junior High School(SF10-JHS)  
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**ELIGIBILITY FOR JHS**

Elementary school completer General average: 87.00 Citations (if Any):  
Name of Elementary School: Autem puod aut corrupti School ID: 427833 Address of School: N/A  
Other Credential Presented  
PEPT PASSER Rating: ALS A/E PASSER Rating: Other (PLs. specify):  
Date of Examination/Assessment (mm/dd/yyyy): Name and Address of Testing Center:

**SCHOLASTIC RECORD**

School: Don Enrique Bautista elementary school School ID: 019231-12 District: I Division: II Region: 4-A  
Classified as Grade: 7 Section: emerald School year: 2012-2013 Name of Adviser/teacher: MR. MANALOTO REYMAR Signature:

| Learning Areas                            | Quarterly Rating |    |    |    | FINAL RATING | REMARKS |
|---|------------------|----|----|----|--------------|---------|
| FILIPINO                                  | 90               | 75 | 78 | 85 | 82           | PASSED  |
| ENGLISH                                   | 85               | 89 | 96 | 78 | 87           | PASSED  |
| MATHEMATICS                               | 96               | 78 | 85 | 78 | 84.25        | PASSED  |
| SCIENCE                                   | 77               | 85 | 82 | 78 | 80.5         | PASSED  |
| ARALING PANLIPUNAN (AP)                   | 82               | 85 | 78 | 93 | 84.5         | PASSED  |
| EDUKASYON SA PAGPAKATAO (ESP)             | 78               | 85 | 78 | 85 | 81.5         | PASSED  |
| TECHNOLOGY AND LIVELIHOOD EDUCATION (TLE) | 75               | 75 | 96 | 63 | 77.25        | PASSED  |
| MUSIC                                     | 78               | 85 | 96 | 96 | 88.75        | PASSED  |
| ARTS                                      | 78               | 88 | 82 | 82 | 82.5         | PASSED  |
| PHYSICAL EDUCATION                        | 82               | 85 | 85 | 81 | 83.25        | PASSED  |
| HEALTH                                    | 78               | 77 | 88 | 89 | 83           | PASSED  |
| General average: 83.14                    |                  |    |    |    |              |         |

Remedial Classes Conducted from (mm/dd/yyyy): 2023-03-16 To: (mm/dd/yyyy): 2023-03-31

**Print** 4 pages

Destination: Save as PDF

Pages: All

Layout: Portrait

More settings

Paper size: Letter

Pages per sheet: 1

Margins: Default

Scale: Custom

Options: ☐ Headers and footers

Save Cancel

|      |    |    |    |    |      |        |
|------|----|----|----|----|------|--------|
| ARTS | 78 | 88 | 82 | 82 | 82.5 | PASSED |
|------|----|----|----|----|------|--------|

- To configure our personal information and account credentials we can navigate to <http://localhost:8000/settings> by simply clicking the setting item in bottom of side bar

menu.

localhost / 127.0.0.1 / studentinf x Dashboard x +

localhost:8000/settings

SJNHS

Home  
Data management  
Release

Administrator  
AGEO AGNOTE

Email address:  
test@gmail.com

Save

**Password setting**

Current Password.

New password.

Confirm Password.

Save

**Reset Password**

Current Password.

Security Question  
What is the last 5 digits of your phone number?

Security answer.

Here we can modify our account information such as names and passwords.

9. When adding a released record, we can navigate to <http://localhost:8000/released> here we can see fields for LRN and name of school or institution that is requesting form 137. When saved a log for the released will be recorded.

Dashboard x +

localhost:8000/release

SJNHS

Home  
Data management  
Release

Administrator  
AGEO AGNOTE

**Release form 137**

Student's Learning reference no. (LRN).

Name of institution requesting .

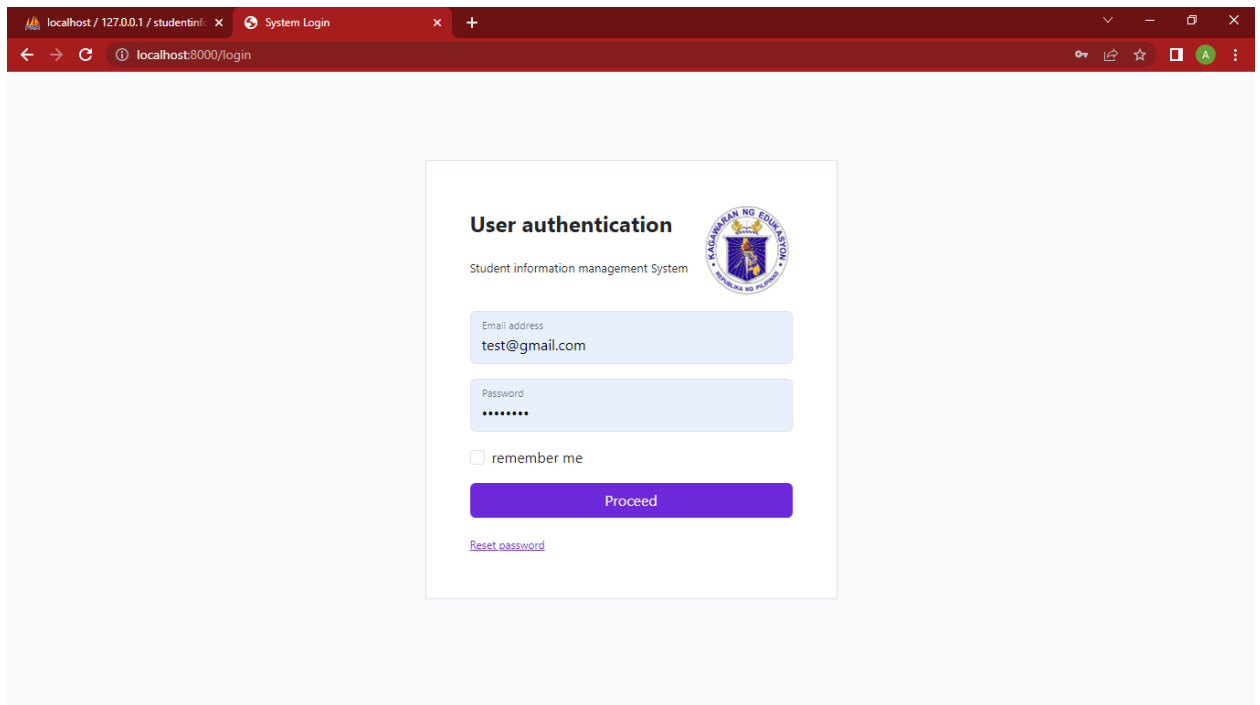
Save

**Releases**

| Details  | Date       |
|--|------------|
| <b>LRN - [150183273725]</b><br>STI College San Pablo                                       | 03-16-2023 |
| <b>LRN - [352789543691]</b><br>Laguna state polytechnic university - san pablo city campus | 03-16-2023 |

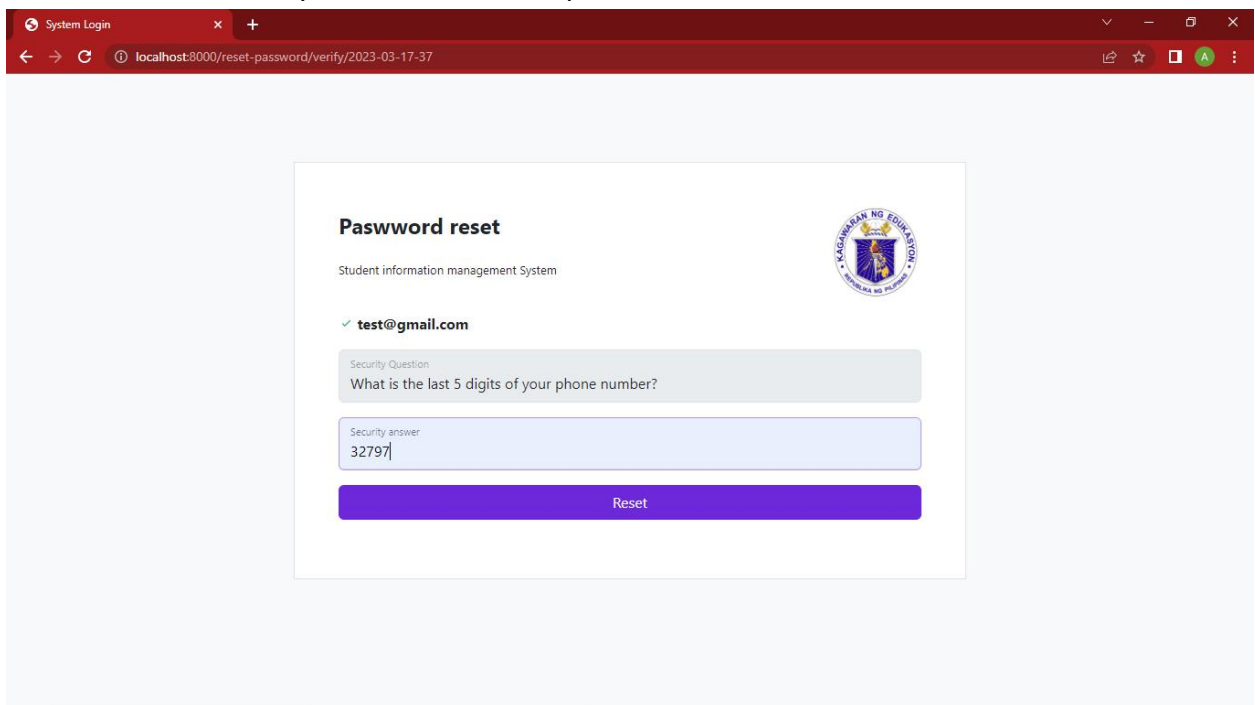
10. In case we forgot our password and can't get access to the system. In login page we can see a link for reset password page. But before that, we need to ensure that the value of

email field contains an existing user email or else it will show us an error.



The screenshot shows a web browser window with the address bar displaying 'localhost:8000/login'. The page title is 'System Login'. The main content area features a 'User authentication' form for the 'Student information management System'. The form includes a logo for 'KAGAMAHAN NG EDUCASYON' and 'BUREAU OF EDUCATION'. It has two input fields: 'Email address' with the value 'test@gmail.com' and 'Password' with masked characters. Below the password field is a checkbox for 'remember me'. A blue 'Proceed' button is at the bottom of the form, and a link for 'Reset password' is below it.

After a successful request, we should be able to see image below for user verification. Here, we are using security question and answer to verify the user. We need to submit the valid values for security answer in order to proceed.



The screenshot shows a web browser window with the address bar displaying 'localhost:8000/reset-password/verify/2023-03-17-37'. The page title is 'System Login'. The main content area features a 'Paswword reset' form for the 'Student information management System'. The form includes a logo for 'KAGAMAHAN NG EDUCASYON' and 'BUREAU OF EDUCATION'. It shows a checkmark and the email 'test@gmail.com'. Below this is a 'Security Question' field with the text 'What is the last 5 digits of your phone number?'. A 'Security answer' field contains the value '32797'. A blue 'Reset' button is at the bottom of the form.

After the image above, we should be able now to save a new password for our account.



**Paswword reset**

Student information management System

✓ test@gmail.com

New password  
.....

Confirm password  
.....

Reset

11. To manage other users just navigate to /manage-user by clicking the link in the sidebar, the created account is a non-admin account and has a default password 'sjnhs2023'.

**User information**

Note: default password for account is

'sjnhs2023'

Firstname  
Ageo

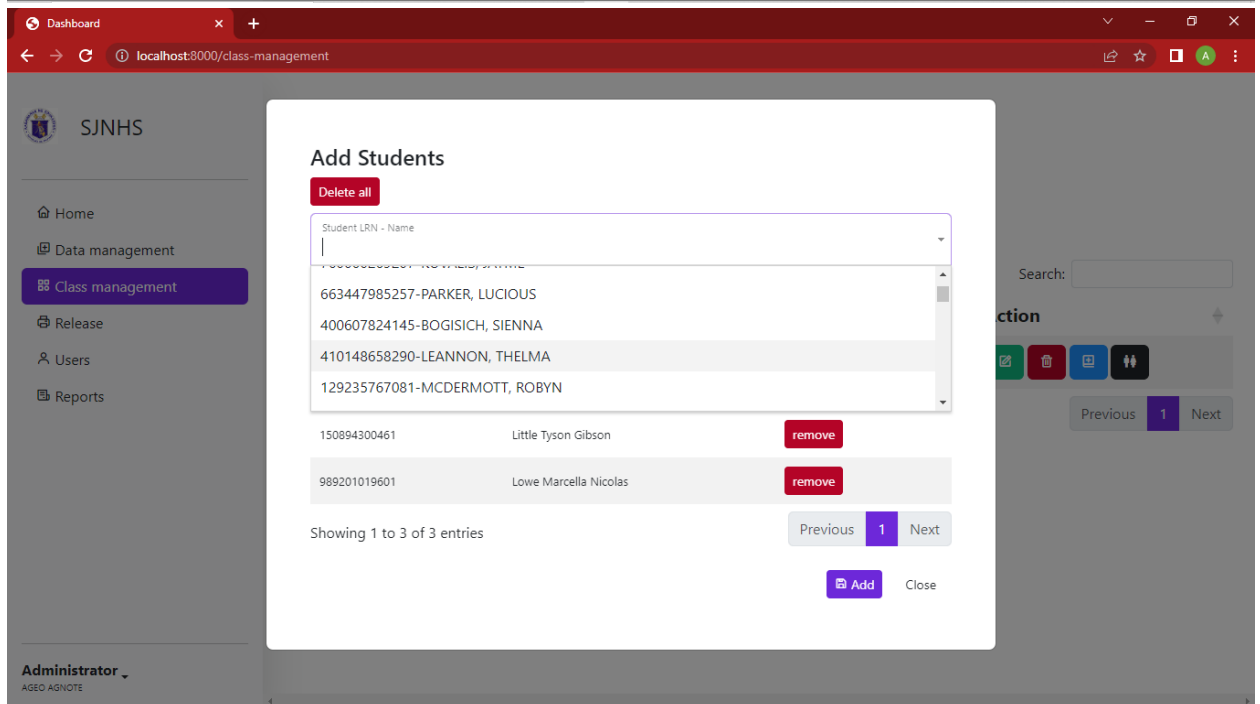
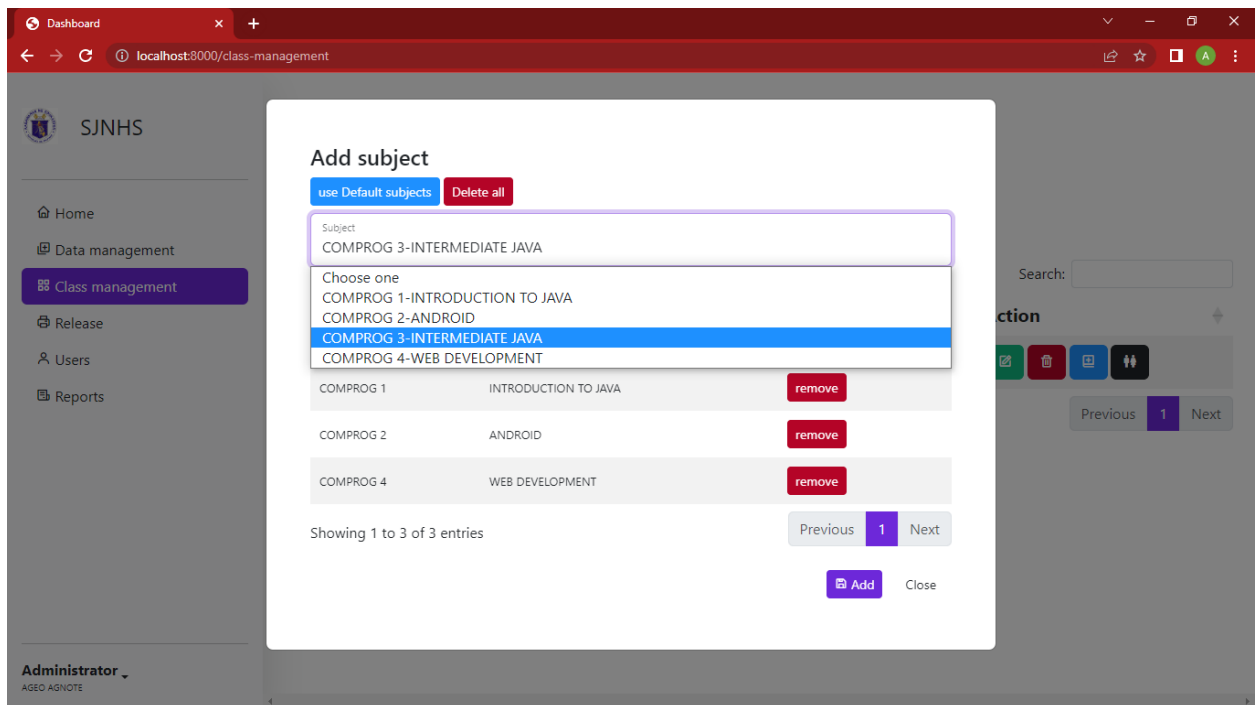
Middlename(optional)

Lastname  
Agnote

Email address  
gg@gmail.com

Create account Cancel

12. In class management navigate to /class-management by clicking the link in the sidebar, here you can assign class, subjects and students in the non-admin users. see the image below.



13. After logging in a non-admin account, we should be able to see the image below. Here we can see the list of class that contains list of students has been assigned to our

account.

The screenshot shows a web browser window with the address bar at `localhost:8000/dashboard`. The page features a sidebar on the left with the SJNHS logo and a 'Home' button. The main content area is titled 'My Class' and contains a search bar. Below the search bar is a card displaying '4 No. of students', 'DIAMOND SY. 2023-2024', 'Grade 7', and a 'View' button. The sidebar also shows a 'Teacher' dropdown menu with 'AGEO AGNOTE' selected.

#### 14. Assigning grades as a non-admin.

The screenshot shows a web browser window with the address bar at `localhost:8000/my-class/student-data/148605180811/1`. The page displays the student profile for 'Huels, Dolores Mayer' (DIAMOND, Male) with a back arrow. Below the profile is a table showing learning areas and ratings.

| Learning areas          | Quarter rating |    |    |    | Final rating |
|-------------------------|----------------|----|----|----|--------------|
|                         | 1              | 2  | 3  | 4  |              |
| INTRODUCTION TO JAVA    | 90             | 78 | 78 | 78 | 81.00        |
| ANDROID                 | 75             | 78 | 85 | 78 | 79.00        |
| WEB DEVELOPMENT         | 85             | 78 | 85 | 78 | 81.50        |
| General average : 80.50 |                |    |    |    |              |

Below the table is a 'Remediation classes' section with an 'Add row' button.

15. To generate reports just navigate to `/reports`, here we should be able to see a dropdown containing a list of school year. To generate data for the graphs just select a school year

and click the generate button.(see the image below)

