# PRC 7 - System Integrations and Architecture

Phase 2 System Integration
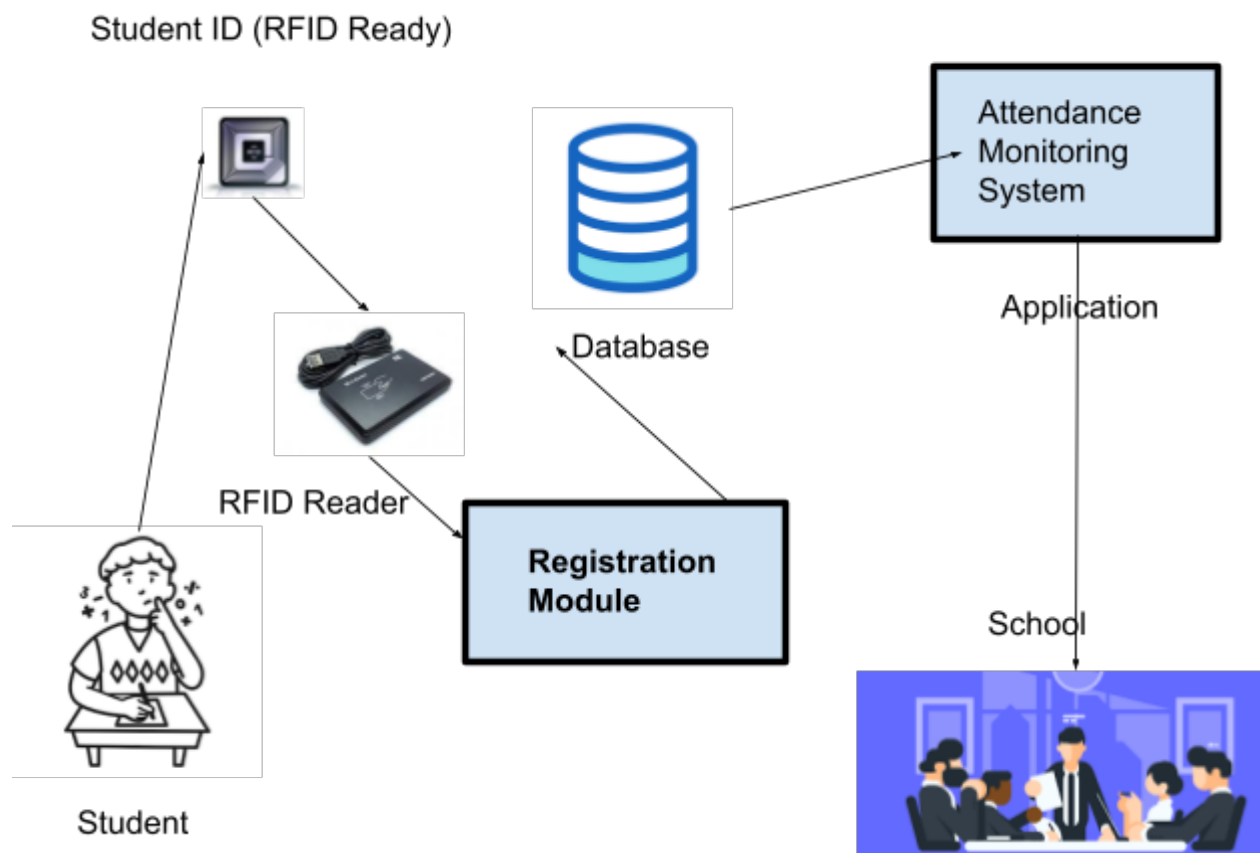
Cutamora, Ronnie D.

Arzola, Karl

Pallan, John Paul

IT4M2

## 2.1 Type of Integration Architecture

# PRC 7 - System Integrations and Architecture

Phase 2 System Integration

## 2.2 Integration Overview

Our goal is to provide convenience when it comes to the attendance monitoring system. We intend to use RFID technology so we can automate the attendance-taking process and tracks students' performance.

| Testing Type: Software | Expected Results | Actual Results |
|---|---|---|
| Database Connection String | We will be able to connect to a database successfully. | We managed to connect to our database. |
| Updating of Data from Database | We will be able to update records in our database. | We managed to update our records in our database. |
| Deleting of Data from Database | We will be able to delete records in our database. | We managed to delete some records in our database. |
| Inserting of Data from Database | We will be able to insert records into our database. | We have successfully inserted some records in our database. |
| Retrieving of Data from Databases | We will be able to retrieve records into our database. | We managed to retrieve some records in our database. |

# PRC 7 - System Integrations and Architecture

Phase 2 System Integration

**2.3 System Testing**

| Testing Type: Software | Expected Results | Actual Results |
| --- | --- | --- |
| Login Attempt Integer | We will be able to make a login attempt feature as the user has incorrectly put either their username or password | We managed to make a login attempt feature with login attempts is maxed to 3. Then, the user will be automatically kicked out. |
| Searching a selected user via the RFID number they used | We will be able to search and to sort out an individual based on their Student ID | We managed to search and to retrieve a selected student or individual using their Student ID. As long as the numbers are correct. |
| Troubleshoot of Updating Data from the Database | We will be able to troubleshoot and to detect problems regarding on updating data to the database | We managed to detect no problems regarding updating records from the database. |
| Generating a report of the Database in any form | We will be able to generate a report of the database in any form. | We managed to create a code in which the database will be converted in Excel Form (Worksheet). |
| Time - In/Out Troubleshooting | We will able to find any sort of problems and bugs regarding on the Time – In/Out code and the feature inside the software | We managed to detect no sort of bugs and problems regarding in time – in/out code and feature inside. |

# PRC 7 - System Integrations and Architecture

Phase 2 System Integration

## 2.4 Integration Testing

| Hardware Type: RFID | Expected Results | Actual Results |
| --- | --- | --- |
| **Integration Testing:** Tapping of RFID | We will be able to read data from RFID tags | We managed to obtain data from their RFID tags. |
| **Integration Testing:** Retrieving of RFID Data | We will be able to retrieve data from RFID tags | We have managed to attain data from their RFID tags. |
| **Integration Testing**: Data interaction with software | We will be able to integrate RFID data with their students' numbers. | We have successfully linked their RFID data with their current student numbers. |