## February 2024 Update - Part 1: New Features and Installation Instructions

The February 2024 update has 2 parts. The first part is the normal type of update with a runner file. The second part is an update to the English Wikipedia. This Readme will address only the first part. I will make another Readme to talk about the English Wikipedia.

Key Features of Update:

* Web and Database Development: Students can now develop web and database applications within a private web server and MySQL data server, running in a separate virtual machine, accessible from the homepage.
* Moodle Integration: Moodle learning platform is now included as another virtual machine, accessible from the homepage.
* **Teacher Home Directory Cleanup**: A new utility cleanTeacherDirectories available in the sysadmin’s menu in the “System” section helps sysadmins identify and remove improper files from teacher’s directories. (cleanTeacherDirectories is not included in the Dashboard, you need to go to the sysadmin menu under “System”).
* Kiswahili Wikipedia: Rachel now features a Kiswahili Wikipedia entry alongside the regular Wikipedia.
* Exam Updates: As expected, updates to exams from 2022 and 2023 are included.

Installation Instructions:

1. Run Pre-Update Script: cd to the directory that contains the “preFeb2024UpdateCheck.sh” and “Feb2024LTSPUpdate.1.run” files. Run “**sudo preFeb2024Update.sh**” to check disk space, data transfer speed, and estimate the time it will take to run the update. The estimate will be at least 4 to 5 minutes. You should not see any problems with disk space, but if you do, the program will give you directions for your next steps.
2. Update with Runner: Use the Reneal Update program with the file “**Feb2024LTSPUpdate.1.run**” to install the update. Remember to take a photo of *all* of the report page at test completion. Please wait for that page to appear.
3. Reboot: After the update, reboot the machine.
4. Verification: You should wait one to two minutes after the boot completes for the virtual machines running inside the server to boot themselves. Then check the school homepage for Moodle and Web Developer links at the bottom. If when you first choose the link the page opens with an error, wait another minute and try again.
   * + The first moodle page opened has the title “Teacher’s Learning Courses”. Users can use the Guest account to access the Moodle content.
     + The first Student Web Development page has the title “Student Web Design” and looks like the student login page.

Verify the presence of Kiswahili Wikipedia in Rachel.

Verify the presence of national exams for 2022 and 2023.

Additional Notes:

* Validation tests are included in the test part of the update runner file to make sure it is updating correctly.
* You can continue using the server while the update is running.
* I will include another video showing the basics of the Teachers Cleanup program cleanTeacherDirectories and the multiple parts of the web development system.