

# INTRODUCTION TO THE RASPBERRY PI AND RACHEL

**Presented by:**

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# OBJECTIVES:

- **TO KNOW HOW TO USE THE Pi AND RACHEL.**
- **TO UNDERSTAND THE SAFE WAY TO START AND SHUTDOWN THE Pi/RACHEL.**
- **TO EXPLORE CONTENTS OF RACHEL.**
- **TO KNOW HOW TO CONNECT THE Pi/RACHEL ON OTHER GADGETS.**

# R.A.C.H.E.L

**R** - REMOTE

**A** - AREA

**C** - COMMUNITY

**H** - HOTSPOT **for**

**E** - EDUCATION

**L** - LEARNING

# What is RACHEL?

**It is a combination of freely available software and content modules that make it easy to bring online educational materials into places with limited or no internet access. The content is available in multiple languages and can be customized to suit local needs.**

# What is a Raspberry Pi

Is a low cost, credit – card sized computer that plugs into a computer monitor or smart TV and uses a standard keyboard and mouse. It is able to do everything a desktop computer can do i.e.

browsing the internet, playing videos, making spreadsheets, word processing and playing games. Interestingly it can be used as a weather station. It can also be used for programming using languages like scratch and python.

# What is on the RACHEL?

Rachel is an offline server, run on a Raspberry Pi, full of educational content from teaching curriculums:

- Khan Academy materials
- Wikipedia
- Classic Literature
- Reference materials
- Textbooks
- Community materials

## *Contd...*

- **Medical and First Aid textbooks**
- **Story books: African Storybook Project, Bino and Fino (Nigerian cartoons) in video form, Book Dash.**
- **African Story books in Chitonga.**
- **Teacher resources like OER Africa on reading skills development and**
- **Teacher Training on how to incorporate digital content in classroom teaching.**

# How to safely Start-up the Pi

When starting the Pi, plug it to the power source giving **5 volts** output or a **USB** cable, then it will automatically load and start itself.

# Use of Pi/Rachel with Gadgets

- Switch on your gadget
- Switch on **WI-FI**
- Connect to **RACHEL**
- Open Browser
- Type **10.10.10.10** and Load
- RACHEL home will appear
- Navigate and search for your content.

# How to safely Shutdown the Pi

If the Pi is not properly shut down one risks loosing the DATA.

Go to the home page of RACHEL, on the top right you will find where it is written **ADMIN**, click and it will bring a dialogue box written **ADMIN LOGIN**,  
**Username.....** and **Password.....**

fill the following:

Username: **Admin**

Password: **Rachel+1**

*Contd...*

Go to **hardware**, scroll down and find **shutdown**, then click. After it has sent the message, click on **logout** on the top right corner.

# Q&A

**Thank you for your attention**

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