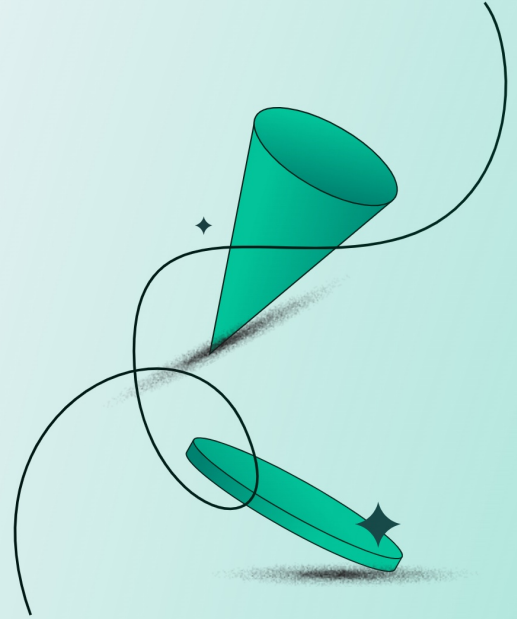# Capacity Building Schedule KIGARAMA TSS

Presented by: Edison UWIHANGANYE | Date: 2/11/2024
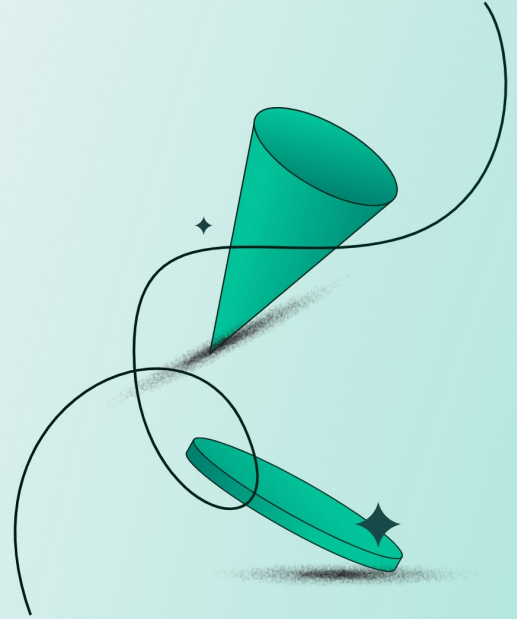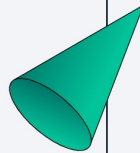
codewithedison
Presenter

Introduction to Capacity building Schedule

software development and computer system training for kigarama tss teachers
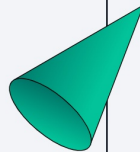
Phase 1 - Initial Backend and NoSQL Setup

Phase 1 (November 2-4, 2024)

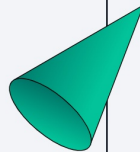| Day	Date	Topic	Content
Sat	November 2-4, 2024	NoSQL	Prepare database environment, design and implement NoSQL structures
Sun	November 2-4, 2024	Backend Development	Set up Node.js, develop REST APIs
Mon	November 2-4, 2024	Backend Development	Enforce access control, logging, encryption

Phase 2 - Backend Testing and Frontend Setup

Phase 2 (November 8-10, 2024)

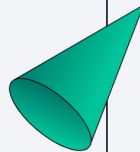| Day	Date	Topic	Content
Fri	November 8-10, 2024	Backend Development	Unit and usability testing, backend maintenance, documentation
Sat	November 8-10, 2024	Backend Development	Additional backend integration and API development
Sun	November 8-10, 2024	Frontend Development (React.js)	Setup React, apply JSX, components, props, and state

Phase 3 - Advanced Frontend Development

Phase 3 (November 15-17, 2024)

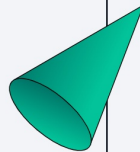| Day	Date	Topic	Content
Fri	November 15-17, 2024	Frontend Development (React.js)	Integrate RESTful APIs, fetch/display data
Sat	November 15-17, 2024	Frontend Development (React.js)	Style with Tailwind CSS, implement responsive design
Sun	November 15-17, 2024	Frontend Development (React.js)	Implement hooks, routing, and state management

Phase 4 - Blockchain Implementation

Phase 4 (November 22-24, 2024)

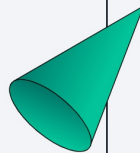| Day	Date	Topic	Content
Fri	November 22-24, 2024	Blockchain	Define requirements, design architecture
Sat	November 22-24, 2024	Blockchain	Implement and secure contracts
Sun	November 22-24, 2024	Blockchain	Optimize gas usage, finalize contracts

Phase 5 - Machine Learning and Mobile Development

Phase 5 (November 30 - December 3, 2024)

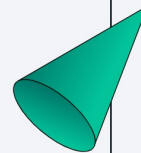| Day	Date	Topic	Content
Sat	November 30 - December 3, 2024	Machine Learning	Data preprocessing, visualization with Python
Sun	November 30 - December 3, 2024	Machine Learning	Choose algorithms, train models, evaluate performance
Mon	November 30 - December 3, 2024	Machine Learning	Model deployment via APIs, predictions
Tue	November 30 - December 3, 2024	Mobile Development (Flutter)	Set up Flutter/Dart, UI with widgets

Phase 6 - Mobile Integration and DevOps

Phase 6 (December 18-23, 2024)

Day	Date	Topic	Content
Wed	December 18-23, 2024	Mobile Development (Flutter)	Integrate backend, error handling
Thu	December 18-23, 2024	DevOps Application	Linux server setup, Docker configuration
Fri	December 18-23, 2024	DevOps Application	CI/CD, monitoring, performance analysis
Sat	December 18-23, 2024	Hobby Kernel	Kernel basics, bootloader setup
Sun	December 18-23, 2024	Hobby Kernel	Interrupts, console output, initial kernel testing
Mon	December 18-23, 2024	Hobby Kernel	Finalize kernel components, system calls

Phase 7 - System Automation

Phase 7 (December 27-29, 2024)

Day	Date	Topic	Content
Fri	December 27-29, 2024	System Automation	Memory optimization, virtual memory techniques
Sat	December 27-29, 2024	System Automation	Automation tools, Ladder Logic basics
Sun	December 27-29, 2024	System Automation	PLC testing, troubleshooting, deployment

Thank you !!

A small sentence which explains all about this presentation