COLLINS KIPLANGAT RONO

SCII/01363/2018

LEARNING MANAGEMENT SYSTEM

Project Scope

September 19, 2022

# Overview

## Project Background and Description

With the emergence of Covid-19, most learning institutions were forced to employ the use of online methods of teaching and learning for students. This was however limited to on-time classes and sharing of resources between lecturers and students largely maintains the various media sharing platforms. Monitoring of the student progress throughout course and modules also still lacks. There is need to develop a learning management system that allows lecturers to share course resources and monitor student progress.

## Project Scope

In order to achieve the above named, the project will implement 3-tier, responsive web-based application system that will be accessible over the internet through: -

* Smart phones – students and lecturers, tutors.
* Laptops, desktops and large system – both students and lecturers, tutors.

The functionalities that will be implemented at a high level are: -

### Member Registration module

Will include: -

* New students and lecturer’s registration.
* Assigning permissions to the registered member using pre-defined user groups.

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| --- | --- | --- | --- |
| # | ROLE | ACCESS | COMMENTS |
| 1 | SUPER-USER | ALL | Can do everything |
| 2 | LECTURER | ADD, UPDATE, DELETE COURSES, MODULES, LESSONS  VIEW AVAILABLE COURSES AND STUDENT PROGRESS  MANAGE COURSES AND WHAT TO BE VIEWED BY STUDENTS |  |
| 3 | STUDENT | VIEW COURSES  ENROL FOR COURSE  ACCESS COURSE RESOURCES PROVIDED  IMPROVE PROGRESS IN ENROLLED COURSES |  |

### Course Management Module

The lecturer will have permission to manage courses that are added onto the platform.

The module will involve:

* Adding, updating and deleting courses and course materials.
* Adding, updating and deleting the different course modules.
* Having access to student progress throughout the courses and modules.

## High level requirements

The new system must include the following:

* Ability to allow both internal and external users to access the application without downloading any software
* Ability to incorporate automated routing and notifications based on business rules
* Ability to allow users, students and lecturers to access course resources.
* Allow students to progress with course content.

## Deliverables

* Dashboard for course management.
* Responsive web based application.
* User documentation manual.
* Technical documentation

## Affected Parties

* Students
* Lecturers

## Affected Business Processes or Systems

* Student registration
* Lecturer registration
* Adding courses and modules
* Editing courses and modules
* Checking student progress.

## Specific Exclusions from Scope

In this phase (phase 1), the following will be excluded and will come in the subsequent phases: -

* Implementation of video conferencing to allow interactions of leaners and teachers through classes and receiving real time feedback of learners.

## Implementation Plan

The project will begin with the user interface prototyping and design of the interface using figma.

Then implementation of user registration which will involve assigning permissions and user groups to different users i.e. the lecturers and students.

The frontend application which allow students to interact with various courses will then be developed. Next is the backend dashboard which allows the management of courses and implementation of the courses module for courses management by lecturers.

## High-Level Timeline/Schedule

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| --- | --- | --- | --- | --- |
| # | Date | Description | Dep. | Comments |
| 1 | 14/9/2022 – 21/9/2022 | Specification document |  |  |
| 2 | 22/9/2022 – 29/9/2022 | UI Prototype/Wireframe | #1 |  |
| 3 | 30/9/2022 – 3/10/2022 | Member registration module | #2 |  |
| 4 | 4/10/2022 –10/10/202 | Frontend development | #3 |  |
| 5 | 11/10/2022 – 17/10/2022 | Dashboard development | #4 |  |
| 6 | 18/10/2022 –  1/11/2022 | Courses module | #4 |  |

# Approval and Authority to Proceed

We approve the project as described above, and authorize the team to proceed.

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| --- | --- | --- | --- |
| Name | Title | Signature | Date |
| Felix Otieno Okoth | Mr. |  |  |
| Joseph Hezekiah |  |  |  |
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| Approved By |  |  | Date |  | Approved By |  |  | Date |