



MOUNTAINS OF THE MOON UNIVERSITY
FACULTY OF SCIENCE, TECHNOLOGY AND INNOVATION
DEPARTMENT OF COMPUTER SCIENCE

FUNDAMENTALS OF WEBSITE DEVELOPMENT
COURSE CODE: BIT 1204

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Francis Academy Website Report

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Francis Academy Online Learning Platform - Project Report

1. Introduction

The **Francis Academy Online Learning Platform** is a comprehensive web-based educational system designed to provide interactive learning experiences for both adults and children. This platform offers a wide range of courses, from professional development to fun, engaging lessons for kids. The goal is to make education accessible, flexible, and enjoyable for learners of all ages.

This report outlines the **project overview, objectives, scope, design and development process, features, technologies used, testing, user guide, maintenance, and future enhancements.**

2. Project Overview

Francis Academy is a **responsive e-learning platform** that includes:

- **Course management** (adults & kids)
- **User authentication** (login/registration)
- **Interactive learning modules**
- **Blog section for educational content**
- **Admin dashboard** (for course and user management)
- **Dark/light theme toggle**

The platform is built with **HTML5, CSS3, JavaScript, and Swiper.js** for interactive sliders. It follows modern web design principles for optimal user experience.

3. Objectives and Scope

Objectives

- Provide an **intuitive and engaging** learning experience.

- Support **both adult professionals and young learners**.
- Implement **responsive design** for all devices.
- Ensure **secure user authentication**.
- Offer **easy course discovery and enrolment**.
- Include **blog articles for additional learning resources**.

Scope

- **Frontend:** User-friendly interface with course listings, blog, and authentication.
- **Backend (Future Phase):** User management, course uploads, and payment integration.
- **Features:**
 - Course filtering by category (adults/kids).
 - Search functionality.
 - Dark/light mode toggle.
 - Interactive course sliders.
 - Testimonials and stats display.

4. Design and Development Process

4.1 Design Phase

- **Wireframing:** Designed in **Figma** for layout planning.
- **UI/UX:** Focused on **clean, intuitive navigation** with:
 - **Hero sliders** for featured courses.
 - **Card-based course displays**.
 - **Responsive grids** for different screen sizes.
 - **Accessible color schemes** (dark/light mode).

4.2 Development Phase

Frontend Development

- Built with **HTML5, CSS3, and JavaScript**.
- Used **Swiper.js** for sliders.
- Implemented **responsive design** with **Flexbox & Grid**.
- Added **theme toggle** (dark/light mode).

Interactive Elements

- **Dropdown menus** for course categories.
- **Search bar** functionality.
- **Mobile-friendly navigation**.

Testing & Debugging

- Cross-browser testing (**Chrome, Firefox, Safari**).
- Mobile responsiveness checks.

5. Features and Functionality

Feature	Description
Course Listings	Filterable courses for adults and kids.
User Authentication	Login/Registration system.
Blog Section	Educational articles and updates.
Dark/Light Mode	Toggle for user preference.
Testimonials	Student feedback display.
Mobile Responsiveness	Works on all devices.
Search Functionality	Find courses quickly.

6. Technologies Used

Frontend

- **HTML5** (Structure)
- **CSS3 & Flexbox/Grid** (Styling & Layout)
- **JavaScript** (Interactivity)
- **Swiper.js** (Sliders)
- **Font Awesome** (Icons) for amazing icons
- **Google Fonts** (Typography) and nice-looking fonts

Backend (Future Phase)

- **Node.js / Express.js** (Server)
 - **Django**
 - **MongoDB / Firebase** (Database)
 - **JWT** (Authentication)
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7. Testing and Quality Assurance

Testing Methods

1. Functional Testing

- Verified all buttons, links, and forms work.
- Tested login/registration flow.

2. Cross-Browser Testing

- Ensured compatibility with **Chrome, Firefox, Edge, Safari**.

3. Mobile Responsiveness

- Tested on **iOS & Android** devices.

4. Performance Testing

- Optimized images for faster loading.
- Minified CSS/JS where possible.

Bugs Fixed

- Fixed **dropdown menu glitches** in mobile view.
 - Resolved **slider autoplay issues**.
 - Improved **form validation**.
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8. User Guide

How to Use Francis Academy

1. **Homepage**
 - Browse featured courses.
 - Use the search bar to find courses.
 2. **Course Enrolment**
 - Click "**Enroll Now**" on any course.
 - Sign up or log in if required.
 3. **Blog Section**
 - Read educational articles under "**Blog**".
 4. **Theme Toggle**
 - Switch between **dark/light mode** using the moon/sun icon.
 5. **Mobile Navigation**
 - Tap the **hamburger menu (≡)** for mobile view.
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9. Maintenance and Support

Ongoing Maintenance

- **Regular updates** for security patches.
- **Backup database** (future phase).
- **Monitor performance** using Google Analytics.

Support

- **Help Centre** (FAQs & tutorials).
 - **Contact Form** for user queries.
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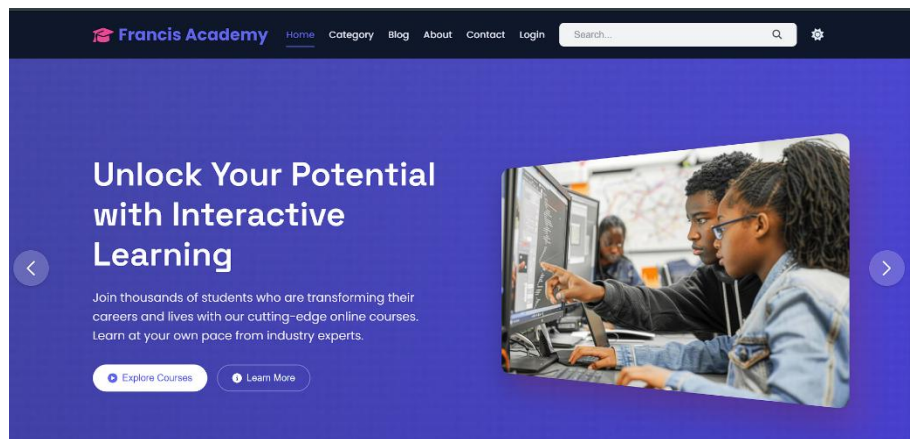
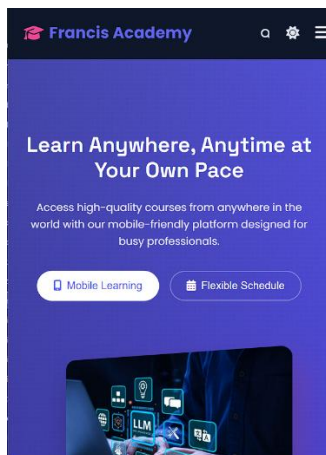
10. Conclusion

The **Francis Academy Online Learning Platform** successfully delivers an **interactive, user-friendly e-learning experience**. Future enhancements include **backend integration, payment gateways, and AI-based course recommendations**.

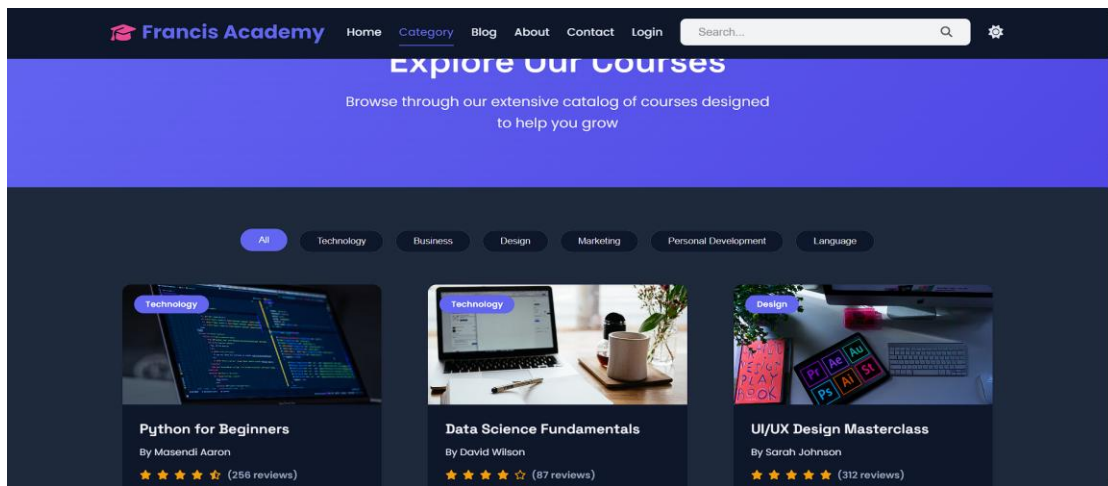
11. Appendices

A. Screenshots

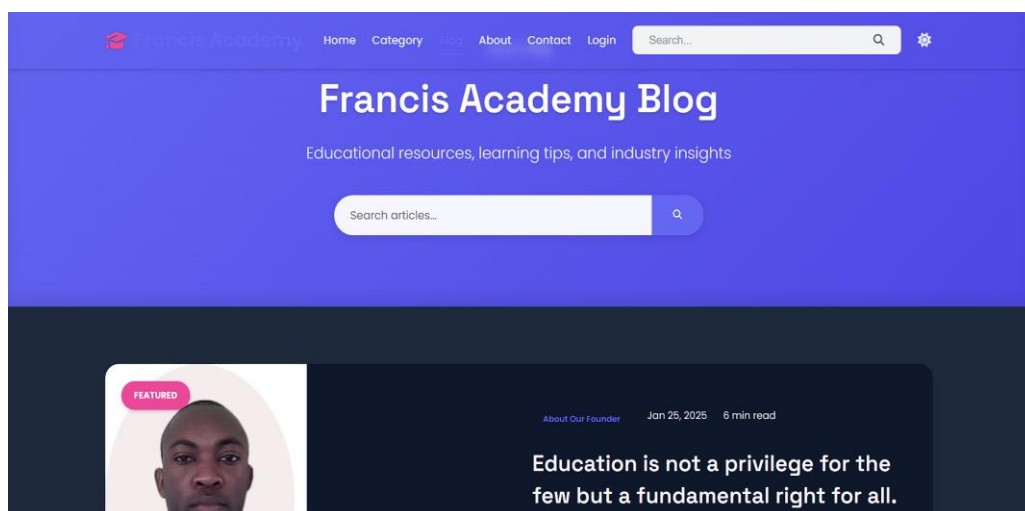
- Homepage (Desktop & Mobile)



- Course Listing Page



Blog Section



B. Source Code

- GitHub Repository: https://github.com/Mas-aaron/end_of_semester

C. References

- MDN Web Docs
 - W3Schools
 - Swiper.js Documentation
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