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Enhancing Student Mastery in Visual Basic Programming through 'VB Pocket': A CQI Implementation in Malaysian Polytechnic

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Abstract
This study explores the implementation of a Continuous Quality Improvement (CQI) initiative in the DFP40233 Visual Basic Programming course at Politeknik Balik Pulau. The intervention was driven by declining student performance in applying Visual Basic.NET concepts, prompting the development of VB Pocket, a mobile learning application, alongside an integrated eBook. Post-intervention results, as evaluated through the Course Outcome Review Report (CORR) for Session II 2024/2025, revealed significant improvement in students' conceptual mastery, engagement, and practical problem-solving abilities. This paper outlines the pedagogical transformation and advocates the integration of mobile-first learning strategies in technical education.
Keywords: Visual Basic.NET, mobile learning, CQI, Flipped Classroom, Technical Education, Vb Pocket, Digital Pedagogy

Introduction

Teaching programming effectively has always been a challenge, especially for beginner-level students in technical and vocational institutions. In Malaysian polytechnics, Visual Basic.NET is a core component of many diploma programs, yet students often face difficulties applying programming concepts in practical tasks. This problem is especially evident in courses like DFP40233, where topics such as control structures, debugging, and data handling require a solid understanding of both theory and application.

Over the past few semesters at Politeknik Balik Pulau, performance data showed a concerning trend: many students were unable to achieve expected outcomes, particularly in applying their knowledge to build functioning applications. This raised questions about the effectiveness of current teaching methods and the level of student engagement. Therefore, there was a real need to explore new ways to support learning, especially methods that are more accessible, flexible, and student-friendly.

This study is important because it responds directly to that need. By introducing VB Pocket, a mobile application aligned with the course syllabus, and integrating it with a Visual Basic.NET eBook, the study aims to provide a more engaging and independent learning experience. The

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G Psacharopoulos

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Table of Contents Foundation Of Programming Through Basic

1. Understanding the eBook Foundation Of Programming Through Basic
    - The Rise of Digital Reading Foundation Of Programming Through Basic
    - Advantages of eBooks Over Traditional Books
2. Identifying Foundation Of Programming Through Basic
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Foundation Of Programming Through Basic
    - User-Friendly Interface
4. Exploring eBook Recommendations from Foundation Of Programming Through Basic
    - Personalized Recommendations
    - Foundation Of Programming Through Basic User Reviews and Ratings
    - Foundation Of Programming Through Basic and Bestseller Lists
5. Accessing Foundation Of Programming Through Basic Free and Paid eBooks
    - Foundation Of Programming Through Basic Public Domain eBooks
    - Foundation Of Programming Through Basic eBook Subscription Services
    - Foundation Of Programming Through Basic Budget-Friendly Options

6. Navigating Foundation Of Programming Through Basic eBook Formats
    - ePub, PDF, MOBI, and More
    - Foundation Of Programming Through Basic Compatibility with Devices
    - Foundation Of Programming Through Basic Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Foundation Of Programming Through Basic
    - Highlighting and Note-Taking Foundation Of Programming Through Basic
    - Interactive Elements Foundation Of Programming Through Basic
8. Staying Engaged with Foundation Of Programming Through Basic
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Foundation Of Programming Through Basic
9. Balancing eBooks and Physical Books Foundation Of Programming Through Basic
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Foundation Of Programming Through Basic
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Foundation Of Programming Through Basic
    - Setting Reading Goals Foundation Of Programming Through Basic
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Foundation Of Programming Through Basic
    - Fact-Checking eBook Content of Foundation Of Programming Through Basic
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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