DESIGN AND IMPLEMENTATION FOR A CLOUD BASED TIMETABLE SYSTEM WITH USING MICROSOFT AZURE PLATFORM

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Objective of the Project

- Studying with Cloud Technologies
- Implementation of Timetable System
- Using .NET Platform

- Avoid data redundancy
- Prevent complexity
- Instant communication between users
- Fast access to the system
Analysis

• This project is a timetable developed for undergraduate students with Cloud System on Azure platform.
• Fast, reliable, accessible, cost efficient and more profitable.
• Students will be able to efficiently take all lessons without conflict.
• All systems will be on one system.
System Architecture

Block Diagram

- **Client**
  - Web Browser

- **Server**
  - Web Page

- **Database Server**
  - Database

Connections:
- Internet from Client to Server
- Internet from Server to Database Server
Solution

System User (Student) Use Case

- Login/Logout
- Change User Information
- Send Mail
- Select Course
- Register to System
- View All Courses
Solution (Cont.)

Department Administrator Use Case
Solution (Cont.)

System Administrator Use Case
Solution (Cont.)

System Sequence Diagram
Solution (Cont.)

Admin Sequence Diagram

System
| Click the login button and go to admin page |

Admin Page
| Change user information |
| Add/Drop Courses |
| Add/Drop Instructors |
| Change Course Name |
| Register to System |
| Add/Drop Students |
| View All Courses |
| Show Online Students |
| All Data Saved |

Database
| Return to Admin Page |
Solution (Cont.)

User Sequence Diagram

- System
  - Click the login button and go to user page

- User Page
  - Change user information
  - Select Course
  - View All Courses
  - Logout
  - All Data Saved
  - Return to User Page

- Database
Solution (Cont.)

Department Sequence Diagram

- System: Click the login button and go to department page
- Department Page:
  - Confirm Timetable
  - Change Department Information
  - Change Instructor Name
  - Change Course Time
  - Change Course Room
  - View All Courses
  - Logout
  - All Data Saved
- Database: Return to Department Page
System Database Tables
Using Technologies

- ASP.NET
- C#
- Entity Framework
- ADO.NET
- MS-SQL
- HTML5
- CSS
- Azure based Cloud System
Interface Design (Demo)

Login Page

![Login Page Image]
Interface Design (Demo)

User Page

User Page

- Profile
- Select Course
- View Course
- Logout
Interface Design (Demo)

Admin Page

Admin Page

- Profile
- Add/Drop Course
- Add/Drop Instructor
- Change Course Name
- Confirm User
- View Course
- Online Student
- Add/Drop Student
- Logout
Interface Design (Demo)

Department Page

- Confirm Timetable
- Change Department Info
- Change Instructor
- Change Course Time
- Change Course Room
- View Course
- Logout
Results and Conclusions

**Advantages:**
- Not complex
- Cost efficient
- More compatible

**Disadvantages:**
- Data Security and Privacy
- Cloud Platform Dependency (Limited Control)
- Not flexible
- Lack of support
Results and Conclusions

• This project provides the relationship between students, instructors, and classes.

• This technology provides to enable students and teachers to interact with the course.

• Faster and more practical solution than older systems.
Future Work

• In the future we will build our system by creating web design and database with advanced algorithms.
References


• Miller, M. (2008). *Cloud computing: Web-based applications that change the way you work and collaborate online.* (pp. 38-39). Que publishing.


THANKS FOR LISTENING AND HAVE A GOOD DAY