

Name of product : Academic Intelligence System (AIS)

Researcher details

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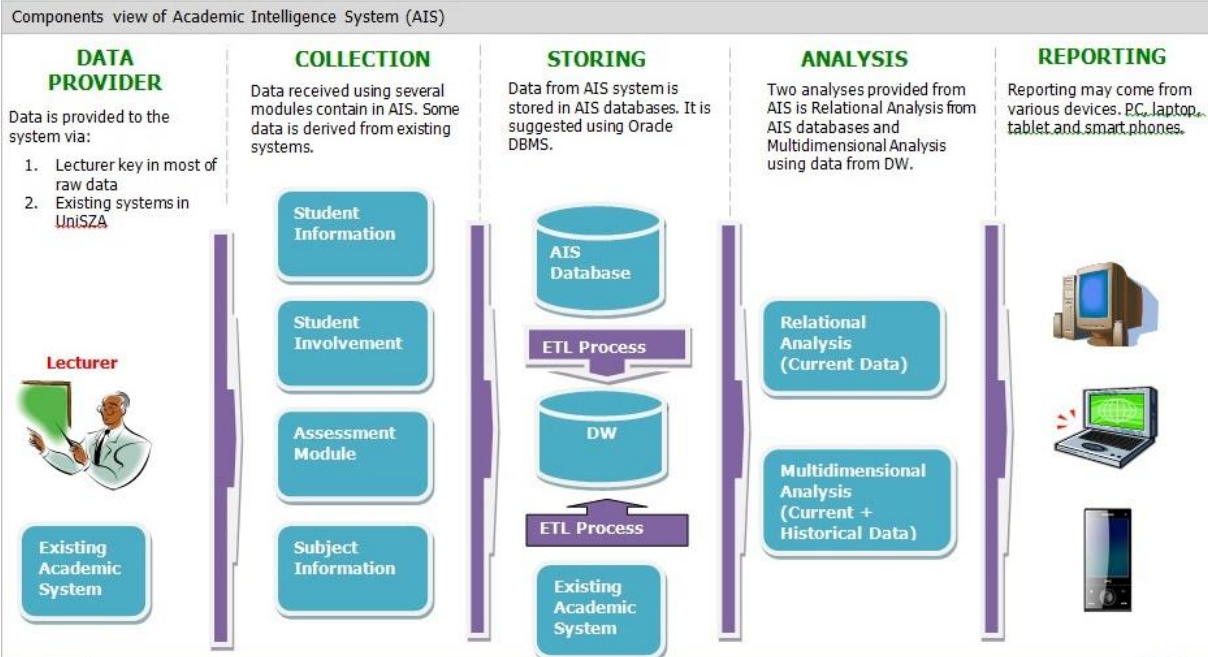
Faculty : Faculty of Informatic & Computing

Cluster/Area of study : Data Mining

Status of the product : Patented/ Copyright

Product description :

Academic Intelligence System (AIS) was developed to integrate records of students' assessments (quizzes, tests, projects, etc.) and related information of students' data into one central repository. It contains several sub-system modules such as Exam Generator system for Outcome Base Education (ExGenoba), Assesment Management System (AMS), Mobile Attendance System (MAS), Student Information System (SIS) and Business Intelligence(eduBI) reporting that could be applied to analyze students' performance. It also provide a platform to supporting existing academic data that integrate into Educational Data Warehouse (EDW) for advance analysis reports. AIS supports the fundamental concept of Educational Intelligence (EI) that aims to avoid 'the islands of information' phenomenon in academic environment. It is capable to perform five main functions as follows : data provider, data collection, data storage, data analysis and reporting. AIS has made possible the integration of heterogeneous data into a single repository where analytical analyses to personalize students' academic performance could be conducted. It as crucial tools design for preparing 'Academic Big Data Tsunami'.



AIS Academic Intelligence System

PROBLEMS & OBJECTIVES



Problems..

AIS Objectives..

- * Student data are consolidated between each data (an island of information - Big Data Explosion) ***
- * Academic data not fully utilized for students' comprehensive analysis ***
- * Quality Human Capital Resources ***
- * Full scaled academics data integration ***
- * Providing a platform to manage and perform advance students' analysis ***
- * Avoid students' drop out issues and analysis based on student strength/weaknesses ***

USEFULLNESS & APPLICATION : KEY COMPONENTS

Assessment Mgt. System



Sl. No.	Student Name	Grade
1	ABHIRAM	100
2	ADARSH	100
3	ADARSH	100

Mobile Attendance System



Sl. No.	Student Name	Grade
1	ABHIRAM	100
2	ADARSH	100
3	ADARSH	100

Exam Generator with Outcome Based Education (ExGenoba)



Sl. No.	Student Name	Grade
1	ABHIRAM	100
2	ADARSH	100
3	ADARSH	100

Educational Business Intelligence (eduBI)



Sl. No.	Student Name	Grade
1	ABHIRAM	100
2	ADARSH	100
3	ADARSH	100

Knowledge Bank Question



Sl. No.	Question	Grade
1
2
3

Others Supported System

USEFULLNESS & APPLICATION : KEY COMPONENTS

Intelligence Question Checker (IQC)



Knowledge Bank Questions (KBQ)



Sl. No.	Question	Grade
1
2
3

Automatic Exam Generator (AEG)



Comprehensive Students' Result Analysis



Sl. No.	Student Name	Grade
1	ABHIRAM	100
2	ADARSH	100
3	ADARSH	100

Advance Record Management

AIS
Academic Intelligence System

MARKET & COMMERCIAL POTENTIAL

**Institute of Higher Learning
(Universities & Private Colleges)**

School (Primary & Secondary)

"achievement of good analysis is dependent on GOOD INPUT"

Towards the transformations of Malaysian Academic Education System

