

ASU



جامعة العلوم التطبيقية  
APPLIED SCIENCE UNIVERSITY



# The First Students Scientific Conference: Multidisciplinary Research

April 2018

Applied Science University

**Edited by:**

Prof. Mahmoud Abdel-Aty

Dean of Research and Graduate Studies

Dr. Assem Al-Hajj

Vice President for Academic Affairs and Development

The First Students Scientific Conference:  
Multidisciplinary Research  
April 2018  
Kingdom of Bahrain

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## UNDER THE PATRONAGE OF



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# PREFACE

The first Students Scientific Conference (SSC) is an annual students' conference organized by Applied Science University with the aim of promoting student research and innovations. Also, the role of the SSC now is to support the students and young scientists and the advance of research work as well as students projects on a more international level. This conference brings together students pursuing science and related programs/ courses from various countries all over world.



The conference was held for the first time on 11 April 2018 and its theme was "Future Sciences: Multidisciplinary Research".

The Deanship of Scientific Research and Graduate Studies forms one of the most important pillars of Applied Science University, Bahrain. This comes from the fact that research plays an important role in any academic institution. Research has a major impact on ASU's accreditation and ranking and for that reason; a strategic research plan has been established in line with the Higher Education Council guidelines in Bahrain. We aim to increase both the quantity and quality of our research output and work hand in hand with the industries in Bahrain and GCC countries.

ASU offers master programmes in the field of accounting and finance and human resources management. These programs support the scientific research and can be considered as one of the main sources of research at ASU since teaching in the graduate studies should be underpinned by research. The Deanship of Scientific Research and Graduate Studies support scientific research, dissemination of research and provides financial support and deploys university resources to facilitate the task of researchers. There are efforts to prioritise research projects to have better community service and development locally and in the region.

Prof. Mahmoud Abdel-Aty

Chairman of the Conference

Dean of Scientific Research and Graduate Studies

# ABSTRACTS

## Hosting Championships in Bahrain

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*Rawan Adel Albalooshi, Haya Hamad Alaazmi, and Moaiad Khder*

### Abstract

This work shows that Bahrain has the capability and potential in managing and conducting successful sports events.

Accepted: 8/3/2018

Ref: 1669

## Scientific Movement of Big Data. Big Data Growing Bigger, Can We Handle It?

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*Reem Yahya Alzaman and Moaiad Khder*

### Abstract

The world is going through enormous scientific and technological breakthroughs that strongly affect us. One of those breakthroughs is big data. Has one ever thought about where those crazy amounts of data created each and every minute go via a huge variety of platforms? Those big amount sets of data indicate certain trends and patterns through the process of computer analysis. Massive problems occur when the user's privacy is being invaded due to the process of analyzing the data to obtain certain information, which could possibly be used in favor of the user's need. The possibility and potential of using those vulnerable groups of data is frightening. Several aspects of big data will be covered such as the impact of big data, problems caused by the risk of exposed data, implementation and benefits of the big data analytics, and suggestions to solve the cons of it.

## The Impact of Electronic Advertising on Consumer Behavior

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*Muhanna Ali Altlaihi and Abdulla Isa Aldoseri*

### **Abstract**

Organ donation is defined when some people allow to donate their organ. There are three different ways to donate an organ such as brain stem death, circulatory death and living donation. Organ donation can be done for two reasons: one for a medical research and second for a healthy transplantable organ donated to another person who needs transplantation. The transplantation includes: kidney, lung, heart, pancreas, bone marrow, bones, skin, corneas, and intestines. There are some organ that can be donated while the donor is still alive such as, part of the liver, kidney, part of the pancreas, part of the lung, part of the intestine, and the rest occurs after the donor has died. The purpose of this research is to present how people in Bahrain are aware of organ donation and to calculate the number of those who decided to donate their organs and those who do not accept to donate their organs and those who are still thinking about it. Moreover, interviewing and studying the record of transplant surgery will lead us to the most organ needed in Bahrain and will also have the number of the transplants surgery of each organ that has taken place and the surgery that has not taken place yet. This works gives some hope to encourage the donation of organs and help the patients to have a completely normal life again.

Accepted: 8/3/2018

Ref: 1667

## The Global History of Coins

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*Abdulla Moanes Alkhayer*

### **Abstract**

Coins are usually metal or alloy, some of them might store some value based on their age or currency, in addition that it might describe a historical story based on whether population used some of these coins in their daily life or not . Some coins are still not clear and have some secrets with mysterious things that nobody knows anything about. Preliminarily, it depends on the derivation and the idea of the first people who created and used those coins and for what they have been used for. Moreover, the evolution of the coins and currency during the years are shown. However the manipulation of the coins, their presence, and the impact of buying goods and trading or exchanging objects and items are importantly discussed. Some coins have a mysterious puzzle when they were used as a certificate, a passing stamp, document, or things still going under researches and studies. On the other hand, there was an effect on the population when people were using coins instead of paper money. The most interesting part is the trace and the feature of the coin, its shape, and the mintage based on the population and their value. In addition, modern money and today's coins are different than before, and also some of them are significantly different from when they were first conceived.

Accepted: 8/3/2018

Ref: 1665

## Awareness and Benefits of Network Security: A Case Study from Selected IT Companies

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*Aimen Abid dhyab and Abdulla Husain*

### Abstract

The internet as a structure is no more than wires connecting computers together globally, allowing them to share data between them at the speed of light. It is an evolutionary network that will not cease to exist, and it will become more difficult for users to find alternative methods. Network security has been used to be a small field practiced by the experts only. However, it has only been under the spotlight for the last decade or so, as more people became connected to the global network known as the world wide web appeared, it has become a minefield that many people have accidentally passed through, losing a lot of data and time during this event. This reason along with other reasons are considered an alarming situation that should enforce every individual, whether an expert or not, to learn various aspects of network security for their own benefit. In this case study, we will discuss the basics of network security, which are essential for users to stay safe, and which are easy to be grasped by users who aren't tech-savvy or those who have no knowledge in the IT field. Learning basic network security is a must in this age, where millions of internet users pass information from and to the global network, and it becomes crucial to take network security into consideration for business networks, as hackers and virus creators usually focus their effort onto them. The global network nature and structure make users connected to the network vulnerable against attacks. Therefore, we are approaching a methodology of steps to ensure that each individual has easy withstanding against malicious network attacks.

Accepted: 8/3/2018

Ref: 1664

## Reasons for the Non-Existence of Medical Tourism in Kingdom of Bahrain

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*Hajar Abdulla Almanea*

### **Abstract**

Tourism is a usual activity for many people nowadays. There are many types of tourism: relaxing, religious, educational, medical, etc. Medical tourism is one of the most important tourism types in our time. It has many advantages to start with, as it raises the economy of the state and contributes in treating the citizens without the need to send patients abroad. This paper tries to explore the reasons behind not relying on medical tourism in the Kingdom of Bahrain.

Accepted: 8/3/2018

Ref: 1663

## Inspiring Women to Take Leadership Positions

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*Hessa Adel Alazmi*

### **Abstract**

Women are powerful creatures with strong minds and great leadership skills, but unfortunately men seem to be the ones in leadership and with all the power. There are many reasons why the former sentence is true, the main one is the lack of inspiring and supporting women in this community, sexism, and women who don't believe that they can. Therefore, this paper focuses on how women should be given chances to prove themselves, and they should be given the positions and rights they deserve as well. We hope that this will give women the hope and the inspiration to do better aiming on building a brighter future for both genders.

Accepted: 8/3/2018

Ref: 1662

## Reasons Behind Un Employing Graduate Students and Solutions

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*Ali Hasan Alhazeem, Yaqoob Hashem AlbalOooshi, and Mohamed Abdulhakeem Albanki*

### **Abstract**

Students struggle to find jobs due to many factors they face upon graduation. This study aims to explore the reasons behind unemployment within last years. The problems and causes are analyzed, and some solutions are suggested regarding the case. The motivation of the study is to find solutions that benefit the undergraduate students, and also help students to choose their majors wisely. The study involves a statistical analysis of the students who graduated and were left unemployed.

Accepted: 8/3/2018

Ref: 1661

## The Impact of Technology on Education

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*Budoor Yusuf Buawoosh*

### **Abstract**

Technology has a clear and significant impact on education with improvements and facilitations for the sake of the students and teachers. The concept of distant education, which has enabled students to access educational materials and reach higher universities and colleges without being present, has been something that has not been available in some parts of the world even in countries where there is education, there are still many issues with getting it to the general public.

Accepted: 7/3/2018

Ref: 1660

## Reasons Behind Students' Low Performance

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*Ahmed Abdulla Ajaj and Mohamed Hafedh Salman Qambar*

### **Abstract**

Students are facing many difficulties during their study, which might either lead to motivate them to study harder or affect them negatively on studying. This research focuses on university students and why their marks goes down - the main reasons behind this and how to find ways to treat such reasons in order to minimize their effects.

Accepted: 7/3/2018

Ref: 1659

## Analysis of Car Accidents in Bahrain

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*Ali Sami Ahmed Alhaji, Khalil Abdulla Khalil Alansari and Ebrahim Khaled Alali*

### **Abstract**

Car accidents can be terrifying experiences. Some of the people involved in these accidents can be injured a little, badly or can die because of a short time mistake. The investigating systems can help the people involved sort out who is at fault for the accident, and who needs to pay the other damaging bills. Road accidents are a human tragedy, they involve high human suffering and cost a lot in terms of untimely deaths. This study provides a look into what car accidents are, who they effect, and other variables discussed in details.

Accepted: 7/3/2018

Ref: 1658

## System Analysis and a Website Design to Connect Parents with Schools

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*Ruqaya Isa Ali and Sara Ahmed Faraj*

### **Abstract**

Nowadays, people are so busy to make some contact or relationship, as communication became difficult especially for parents and administrators of schools so as to be able to improve their children statuses. The website titled (WASSEL) is a way of communication between parents and the administration of schools. It is also a simple way to know everything about their children anytime and anywhere. Parents can check grades, timetable, weekly publications, homework, reports, and quiz's time; this is accomplished by having the authority to access the website of their children. The administrator also has the authorization to add, update, or delete the information of the database of the students. The website lets the parents stay in contact with the school administrators to make the communication easy and helpful. The database system is built in XAMP program and we used some programming languages like SQL(Structured Query Language), PHP(Personal Home Page), CSS(Cascading Style Sheets), Database and HTML( Hyper Text Markup Language) on this work to show some results.

Accepted: 6/3/2018

Ref: 1648

## A Road Map to Data Science: Background, Future, and Trends

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*Samah Wael Fujo*

### **Abstract**

Data science is one of the most critical fields in our daily life with an excellent ability to face the world's challenges. We all know how data science first took part in many areas and has become one of the most important fields that people would prefer to study dreaming about good career. Is the future of data science bright? The paper reviews more information related to data science of different studies, with much focus on introductory data science, why it first came, its working mechanism, ingredients involved, relevant applications, tools and methods, and the future.

Accepted: 6/3/2018

Ref: 1647

## Super Nanny

*Asma ALI aldossery*

### Abstract

يتناول البحث عرض فكرة تقديم خدمة المربية المتنقلة مع توفر باقات تشمل الرعاية التربوية والتعليمية للأطفال من حديثي الولادة إلى سن السادسة حيث تتوفر في الباقات العاب الكترونية، كتب تعليمية، وجبات الأطفال، مشرفات بحرينيات. رعاية الأطفال من سن 40 يوم إلى سنتان ونص، توفير خدمة مكثفة لاحتياجها للعناية الفائقة لذا يتم توفير كاميرات الرقابة والألعاب التعليمية والمعدات اللازمة الخاصة لكل فئة عمرية . وهناك باقات مميزة تشمل الفئة العمرية من سن 3 سنوات إلى 6 سنوات خصوصاً في فترة الاجازات الأسبوعية أو الصيفية أو الفترات المسائية في الأيام العادية. تمر هذه العملية بخطوات مميزة عند تحميل البرنامج الخاص للمشروع المتوفر في الهواتف الذكية سواء من نوعية أندرويد أو أبل.

Accepted: 23/1/2018

Ref: 1541

## Wassel - A Website to Connect Parents with School

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*Ruqaya Isa Ali, Sara Ahmed Faraj, Fatima Anwar Alshaikh, and Mohammad Alaa Al-Hamami*

### Abstract

Nowadays, people are so busy to make any contact or any relationship, so the communication became difficult especially for parents and administer of school to guide them on how they can improve their children. The web site titled (WASSEL) it's a way of communication between parents and administration of the schools. Also, it's a simple way to know everything about their children at anytime and anywhere. Parents can check grades, time table, weekly publication, homework, reports, and quiz's time, by having the authority to access the website, The administer also have the authorization to add, update and delete the information of the database of the students. The web site let the parents stay in contact with the school administers to makes the communication easy and helpful. The database system build in XAMP program and we used some programming languages like SQL(Structured Query Language), PHP(Personal Home Page), CSS(Cascading Style Sheets), Database and HTML( Hyper Text Markup Language).

Accepted: 20/1/2018

Ref: 1529

## Using Social Media in Self-Learning

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*Mohammed AbdulAziz Abdulla*

### **Abstract**

This work aims to investigate the use of social media platforms by Applied Science University (ASU) students in the self-learning area. Due to the high growth of information technology, social media platforms are already an integral part of individuals' life such as platforms used for shopping and others for related business purposes. This research intends to tackle the issues of using social media within self-learning processes as well as studying individuals' usage of the social media and their acceptance for such technology within the educational processes. We worked to link self-learning with the platforms of social media as well as how to accept this method and implement it within the educational field. Qualitative and quantitative methodologies were used to collect data through previous work related to the relationship between social media and education. Furthermore, an online questionnaire was conducted and sent online to random ASU students in order to investigate their usage of social media platforms. The study focused on university students as the random sample of the research. The results from the questionnaire indicate that the majority of respondents are using social media platforms within their daily lives, whereby most of the students are using social media within their studies. The majority of the respondents prefer to use WhatsApp application, and also they believe that the future of applications in self-learning processes is clear and it encourages the engagement in areas where implementations within remote learning field could be done.

Accepted: 20/1/2018

Ref: 1527

## Departure Control System

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*Amal Ebrahim Al-Mukhaimer*

### **Abstract**

Departure Control System (DCS) is an automatic processing within airlines airport operations. It includes managing the information required for airport check-in, boarding pass printing, checked baggage, and load control. It is strange that in a huge system such as DCS which a system is considered perfect, except for its Command - Text-based User Interface System (TUI) which is infamous for being user-unfriendly. The reason is that it has a lots of commands which are difficult to remember for the right syntax and for having a major concern of not delaying the passenger in front of the counter as used in a critical time concern. A text-based system has never been a problem until recently, when the air traffic has seen a major growth. This might affect the quality of service especially when it would be related to time and speed of functioning. In this case performance, there are no improvements of the performance and the system is not already a user-friendly system. Here we propose a Graphical User Interface System (GUI) that allows to have a simple system avoiding the complexity of having subsystems, and achieving security levels (access control, authentication, and audits), with also a guided interface that would make it faster using some simple programming languages as HTML, VB, JavaScript, C# and C++.

Accepted: 20/1/2018

Ref: 1526

## Find-Your-Doctor System

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*Aseel Mohammed Al-Ghossain*

### Abstract

The development and expansion of the healthcare field nowadays is very rapid in comparison to the past years, which makes the task of patients or parents who are looking for a professional experienced doctor very difficult.

As most of us will need to see a doctor at some point in life, information about doctors' qualifications and profile becomes a necessity, and the patient's task to search for a doctor is harder and longer. So from this difficult experience, our "Find your Doctor" website idea may be a suitable solution.

"Find your Doctor" website provides the ability to let the user search for doctors and find the best one according to specialty that he/she is looking for. By using this website, the patients can go to the doctor in any hospital very comfortably and confidently as the patient would know exactly to whom he or she would be going, by knowing the doctor's specialty, experience, etc. What makes this website unique is all the information about the doctors that patients aim to visit; this is done in one place and with only a single click without the need of any boring research processes. The patient finds and chooses doctor specialty and selects any doctor that appears in the specialty list. Once the needed doctor appears, there will be a box including the details of the doctor. In addition, there is a toolbox that allows the user to write, rate, and see the comments and rates from other people stored in a database. It also includes a button that the user can use in order to make an initial appointment with the doctor by clicking and choosing the date and the time that are suited. Finally, the website has also a feature that enables new doctors or doctors who hasn't registered their names and want to be included in the website; this register button works when the doctor clicks on it, an application then appears to fill required correct information and sends it to the website e-mail, making sure that the correct information is directly added to the website. This work tries to expand fulfilling people's needs and minimize the effort put for searching.

## ASU Parking System

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*Adullaziz Fasial Almurbati*

### **Abstract**

This work is dedicated for Applied Science University's parking system, as per our role as students in the university to get new ideas aiming to help our fellows to be comfortable at the university system. We thought to code a mobile application that is going to be used for parking speedy process there, ensuring that parking is done even before a student reaches the university in order to get to classes on time. The proposed system is called "Where is my Park" app. The main program around this application is xCode, which is a coding program that is based on IOS platform, which is called one of the best programs that have been used by the developers. The program is used to build other programs using codes and classes. The other programs are Photoshop to edit the interface and the parks and give the app a better look for users, AutoCAD to design the parks of the university, and Notepad to correct the codes mistakes, and to write the steps needed to build the app "step by step".

Accepted: 20/1/2018

Ref: 1524

## Leave for Ministry of Interior

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*Naser Bader Hamad Ali Bubader Aldoseri and Ahmed Azzam Elmasri*

### **Abstract**

The online leave management system using the web-based platform is a great solution for all leave-related problems of all Ministry of Interior (MOI) personnel. In most of the MOI departments, the leave-related information is maintained through the letter/paper work which is a very problematic task because over time the information will be lost. The system works to save time and effort of the staff in the personnel affairs department. It also works to organize the staff leave issue. In addition, it works to obtain a system of security approvals for travel.

Accepted: 17/1/2018

Ref: 1516

## The Artified

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*Ali Abdulla Ali and Ahmed Abdulla Albanna*

### Abstract

The project idea is to develop a website to sell artwork, so all artists and art lovers can gather in this cyber community to sell, buy, or discuss their opinions of the arts. Through interviewing several artists and designers, we have found that all of them share similar obstacles, and the overwhelming majority have problems creating their products. So this website would solve the marketing problem by making it a destination for all artists and art lovers, while in fact there seems to be no websites selling art in the Gulf Cooperation Council (GCC).

Accepted: 17/1/2018

Ref: 1515

## ASU Canteen is Mobile Application

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*Shaima TAaher Mohamed Salman and Jasim Alsaegh*

### Abstract

The purpose of this project is to design and develop a computerized and mobilized online food ordering system for ASU canteen. The system is used for viewing the canteen menu and placing an order for the desired selected items. It is also designed to help the employees to make an order while sitting at their offices and asking for delivery service through the system. The system aims to convey something to the developed world by the elimination of the traditional ordering system that depends on manpower on recording work manually. Therefore, the system main target is to give assistance to the canteen staff to run the work with better electrical management, and also to help the university members in creating a better connection with the canteen. This project produces an android mobile application and a website. This app is developed with android studio along Java and XML languages, while the website is developed using HTML, CSS, JavaScript, and other related things. The app is connected to the website and the website is connected to the database. Thus, if a customer places an order, it will directly be displayed in the admin website and stored in the database. In addition, when a manager adds a new item from the admin website, it will be displayed in the app for customers and stored in the database at the same time.

This project is made by making a comparison of some existing systems to find the strong points to apply them in our system and weak points to be avoided during the implementation of our system. On the other hand, a survey is made to know to what extent the system is required for the university.

Accepted: 17/1/2018

Ref: 1514

## Electronic Examination System

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*Muhanna Ali Husain and Ahmed Mohamed Aitlaihi*

### Abstract

Electronic Examination System is a way to better conduct examination in an easy and efficient way. It does not only save time and effort associated with the process, it also saves the costs incurred from conducting paper-based examinations. In an ideal situation the system will run as expected. But, this is not always the case. Electronic solutions often come with the cost of combined risks that are associated with this type of projects. The risks include data loss, access denial, and hacking. Those risks exist because of the nature of the solutions since the system is prone to hardware failure and external internet nodes. However, those risks become easier to manage and could be handled to eliminate or limit the effects of their occurrence. A discussion of the solution is included in this report to show the system architecture and the strategies of handling the risks surrounding it. Such project takes time and effort to provide a functional solution. This allows validation of the benefits of having an electronic examination system over the paper-based examination. The system includes features that enhance the examination experience for both instructors and students. Therefore here, there is an inclusion of a deeper understanding of the electronic examination system and its pros and cons, which makes it the most suitable solution for the paper-based examination problems which include the manual generation, print, marking, dissemination, storage of exam papers for the students, and high costs involved in the process of printing and shredding. The discussion of results and conclusions of the project's outcome are included in details to highlight the weaknesses of the implemented system and help in planning the next steps of improving the solution further to enhance the users' overall experience.

Accepted: 17/1/2018

Ref: 1513

## Woman Saloon Reservation Mobile application

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*Maha Mohamed Abdulrahman and Mohamed Abdulla*

### **Abstract**

The present century has witnessed many changes and developments, smart phones development is one of these very important ones that have become an integral part of our daily lives. Nowadays, majority of people replace the manual work with the electronic one because of benefits brought to the community. This is why this project is oriented around the electronic application. This project aims to serve the female element of the community by shortening the waiting time for the service in the saloon and using the apps in smartphones. It is claimed that women are half of the society and this app serves different women in many aspects. This app is built using android studio for the sake of android phones such as Galaxy and others. The idea of this app goes back to the fact that women in our society suffer from waiting for appointments in saloons where it sometimes requires them to be present in person in a queue to get a hand-written number on a small paper. The aim is to display the services provided by the women's saloons with short description for each service. Customers can register in this app to continue the booking process by selecting the services by date and time, and then go in person at the same time to pay there, easily ensuring the customer's seat at home, as well as providing the possibility of managing the appointments schedule in the saloon to avoid complaints of customers. In addition, the saloon owner can provide the convenience for their customers and also obtain good reputation with more profits coming out of using this app.

Accepted: 17/1/2018

Ref: 1512

## ASU Secretary of Boards Councils Website

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*Kawthar Mohamed Ahmed and Abdulla Rashed Alhaykil*

### Abstract

Some organizations use computers with internal and external networks to manage their administrative affairs. Universities have recently resorted to an electronic management system that relies on information and communication technology to manage their various activities through computerized information systems, thus facilitating the delivery of services and correspondence. Applied Sciences University (ASU) is considered one of the most advanced education institutions in Bahrain. ASU deals with many types of systems that help the university to control processes and performance, it has a registration system, financial system, library system, and bookshop system. Our system has been implemented in response to the desire of the administrative members of the university and their assistance in administrative affairs. This facilitates the collection of minutes, decisions, and agendas for meetings and councils that are held every academic year displaying some details of each meeting. Our work is about is a website built using the PHP language and the phpMyAdmin program to store the databases and attach the site to the official website of the University. The main goal of ASU secretary of board council's project is to build a helpful system to serve the university to collect all the reports and decisions which result from ASU councils such as university council, board of trustees, and many management committees, to provide these reports and decisions to be available for all higher members online. This site can help all users, members, presidents, deans, or anyone with the authority to present any report or decision of any academic year by searching for it in an easy and fast way. After achieving these major functions in the system and testing with supervisors, the system outcomes seem to succeed in its mission and it does apply a proper process that makes the system effective and displays high performance.

Accepted: 17/1/2018

Ref: 1511

## Online Car Rental System

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*Alsayed Alal Mohamed Khalifa Ahmed*

### **Abstract**

This project is essentially developed and constructed to consider car booking at a certain fair charge. It has been notified that in this existing regime of car booking, majority of such booking procedures adhere by manual procedures. Therefore, it calls for a complex system to maintain data and information related to car booking. It further avails for certain facilities of back end which is of sound or strong manner. Seeking vehicles through manual means is comparatively time-consuming and it offers superior form of hindrances. The basic purpose of this research is to provide insights about a systemic procedure of car rental availability which will generate car or transport facilities for certain determined rentals or locales. Moreover, this work amplifies car availability to major users in a certain technical manner where anyone may book a car or vehicle without any further application induced hindrances or strong knowledge in coding. Hence, this procedure aids in developing of a website which would bring rental vehicles and users within a same platform-based framework.

Accepted: 17/1/2018

Ref: 1509

*Ahmed Noor, Mohammed Seyadi, and Rashid Almanaei*

## Abstract

تعتبر النفايات الصلبة من التحديات البيئية التي تواجه العديد من البلدان، يعتبر إعادة التدوير من الأساليب الحضارية المتبعة في الدول المتقدمة والتي ضربت السويد مثالا يحتذى به لدرجة أنه أصبح يستورد المخلفات من الدول الأوروبية الأخرى لضمان استمرار عمل مصانع إعادة التدوير، خلقت السويد ثقافة لدى الشعب السويدي ساهم بشكل كبير في تمركزه كمثال رئيس يقلد من قبل دول كبرى مثل المملكة المتحدة التي تحاول اللحاق بها والوصول إلى المراحل المتقدمة في هذه الصناعة أسوة بالسويد. تتخذ مملكة البحرين إجراءات وخطوات من خلال المجلس الأعلى للبيئة ووزارة الصناعة للحد من التجاوزات في التخلص من النفايات أو توريدها ولكن البحرين لازالت في مرحلة كيفية التخلص من النفايات بصورة ليس فيها إضرار بالبيئة أما المراحل المتقدمة التي تتضمن تدوير البلاستيك والزجاج لتوليد الطاقة وتصنيع مواد أخرى منه فهذه المرحلة لازالت غير مطروحة حالياً بصورة جدية. يناقش البحث محاكاة لفكرة مشروع مصنع إعادة تدوير في المرحلة الأولى المتمثل في تحويل مخلفات البلاستيك والزجاج إلى مواد أولية قابلة لإعادة التصنيع. تم الاطلاع على تجارب شركات سابقة وتجربة مملكة البحرين في هذا المجال ومجارات توجهات المملكة في دعم مشاريع إعادة التدوير التي تصب في اقتصاد المملكة وتوفير الطاقة من خلال توفير بديل عن منتجات أولية مثل البلاستيك والزجاج بالإضافة إلى كون المشروع عمل ريادي ألا أنه يهتم في المساعدة لجعل إعادة التدوير من الثقافات والممارسات التي يوجه لتكون منطلقاً وداعماً لنجاح فكرة المشروع. يتبنى مشروع إعادة تدوير البلاستيك والزجاج تغطية المناطق الرئيسية بشكل مبدئي وتركيز أساسيات لسهولة التواصل مع المستفيدين من خلال الاستخدام الأمثل للتكنولوجيا وقنوات التواصل وخطة تسويقية تضمن إطلاع أكبر فئة في مملكة البحرين الخدمات التي يقدمها المشروع وماذا يقدم كفائدة شخصية بشكل خاص ونمو الاقتصاد والنتائج القومي المحلي بشكل عام لمملكة البحرين.

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