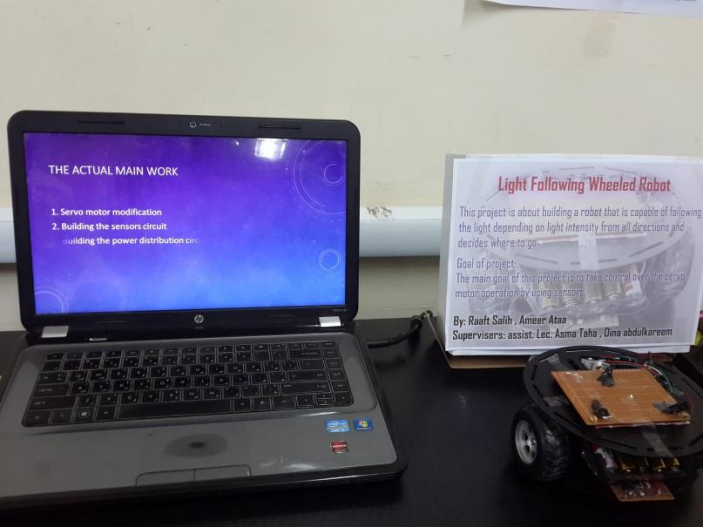



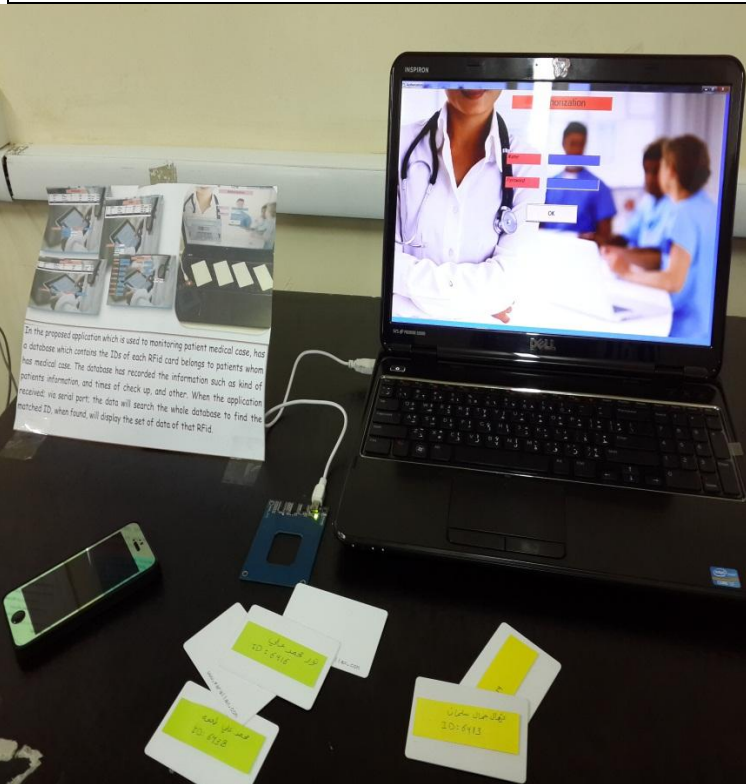
## المعرض العلمي السنوي لقسم هندسة الحاسبات – جامعة بغداد



### للعام الدراسي 2013-2014

برعاية السيد عميد كلية الهندسة الاستاذ الدكتور احمد عبد الصاحب وبحضور كل من السيدة معاونة العميد للشؤون العلمية والدراسات العليا الاستاذ المساعد الدكتورة امال عبد الغني و السيد معاون العميد لشؤون الطلبة الاستاذ المساعد الدكتور خالد عبد الرزاق أقام قسم هندسة الحاسبات معرضه العلمي السنوي لعرض مشاريع طلبة القسم وذلك احتفالاً بيوم جامعة بغداد المصادف بتاريخ 7/4/2014. وكانت المشاريع تعكس مدى الاستفادة العلمية للطلبة من المواد النظرية والعملية خلال دراستهم في المراحل الاربعة. ووضح السيد رئيس القسم الاستاذ المساعد حامد محمد علي الهدف من إقامة هذا المعرض سنوياً في قسم هندسة الحاسبات هو الارتقاء بالمستوى العلمي لطلبة القسم وحثهم على استخدام مهاراتهم الهندسية و البرمجية في مجالات كثيرة تساهم في تطوير المجتمع.

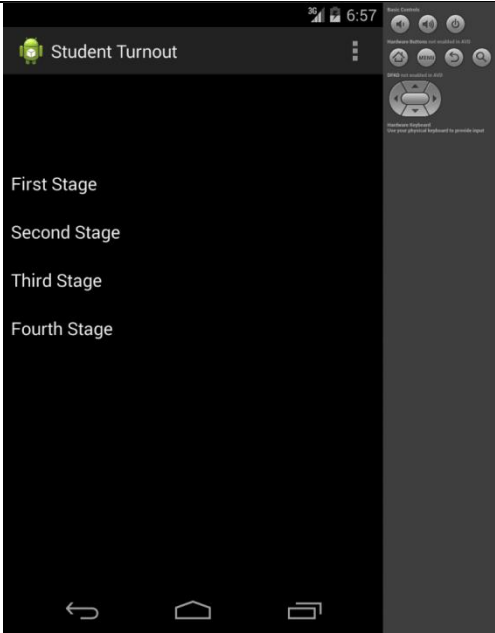

ت	اسم الطالب	اسم المشروع	ملخص عن المشروع	صورة عن المشروع
1	رافت صالح و امير عطا	Wheeled Robot controlled by light sensors	<p>This project builds a robot that is capable of following the light depending on light intensity from all directions and decides where to go. The main goal of this project is to take control over the Servomotor operation by using sensors.</p>	

	<p>Library staff handle a hard task that involves sorting, borrowing, returning, tagging of books. In addition, library users encounter problems for finding, borrowing, localizing, renewing the borrowing, queuing, and so on. To overcome these obstacles, we can manage the library system based on an RFID technology. Using low-cost passive tags in libraries reduces the cost significantly. As such, integrating RFID into library management system makes both the library users and staff's task automated, easy, smart, convenient and practical.</p>	<p>Design and Implementation of Library Management System Basedon RFID Technology</p>	<p>مصطفى هاشم و هاشم عبدالامير</p>	<p>2</p>
	<p>In this project, building a robotic car which could be controlled using voice commands is introduced. This voice commands are:</p> <ol style="list-style-type: none"> <li>1. Move forward</li> <li>2. Move backward</li> <li>3. Turn right</li> <li>4. Turn left</li> </ol>	<p>Voice Controlled Robot Using Microcontroller</p>	<p>رواء قاسم و ضفا علي</p>	<p>3</p>

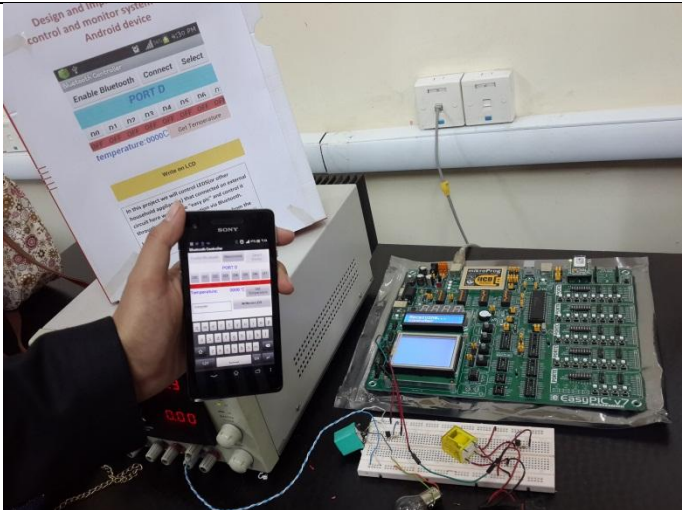

	<p>This project, based on GSM technology, is used for long distant communication. The circuit of the voting system consists of SIM900 GSM module and a SIM card that is connected to computer by serial port. When voting is started, the GSM will receive an SMS.If it contain the true vote then the counter of elected option will increment.</p>	<p>Microcontroller based cellular voting system using SIM900</p>	<p>نور احمد و علاء صباح</p>	<p>4</p>
	<p>The proposed application is used to monitor patient medical case, which has a database that contains the IDs of each RFID card that belongs to a patient who has a medical case. The database records the information about patients. When the application received via serial port; the data will search the whole database to find the matched ID. When found, the set of data of that RFID will be displayed.</p>	<p>Intelligent Hospital System using RFID</p>	<p>تمارة رياض</p>	<p>5</p>



	<p>This project introduces controlling a robot by using color sensor and microcontroller. Four colors are used to control the movement of the car; these colors are red, green, blue and yellow.</p>	<p>Color Controlled Robot using Microcontroller</p>	<p>جنان ابراهيم و سارة سالم</p>	<p>6</p>
	<p>The Idea behind the project is protecting the houses, buildings, offices....etc from thieves &amp; attackers. The component of this project is (Ultrasonic Sensor, Servomotor, easypicv7 &amp; LCD).</p>	<p>Microcontroller based Security System</p>	<p>زهراء صباح و اية مجيد</p>	<p>7</p>



		<p>In this project, an Android application is used to manage student attendance on mobile then sends the attendance data through Wi-Fi to a local server using TCP sockets.</p>	<p>Student Turnout Android Application</p>	<p>ابتهاال علي و ابرار مؤيد</p>	<p>8</p>
		<p>In this project, RFID is used to allow only the authorized cars that carry a previously assigned RFID code within the garage computer's database to pass through the garage barrier.</p>	<p>Smart Car Parking System using RFID Technology</p>	<p>بسمان سعد وليث محمد</p>	<p>9</p>



	<p>In this project we will control LEDS (or other household appliances) that are connected on external circuit. Here we will use “easy pic” and control it through an android application via Bluetooth.</p>	<p>Design and Implementation of Control and Monitor System based on Android Device</p>	<p>شهد فراس و شایان مهدي</p>	<p>12</p>
	<p>The idea of our project is to secure the computer or certain application by using face recognition password rather than text password input.</p>	<p>Microcontroller based Face Recognition System</p>	<p>محمد ثامر و ابرار صلاح</p>	<p>13</p>

	<p>This project designs the web site of computer engineering department.</p>	<p>Design of Computer Engineering Website</p>	<p>نهى قریش و ضحی مؤید</p>	<p>14</p>
	<p>The objective of this work is integration and optimization of an automatic face detection and recognition system.</p>	<p>Design and Implementation of Face Recognition Attendance System based on Computer Vision API.</p>	<p>سحر خضير و هالة حسين</p>	<p>15</p>



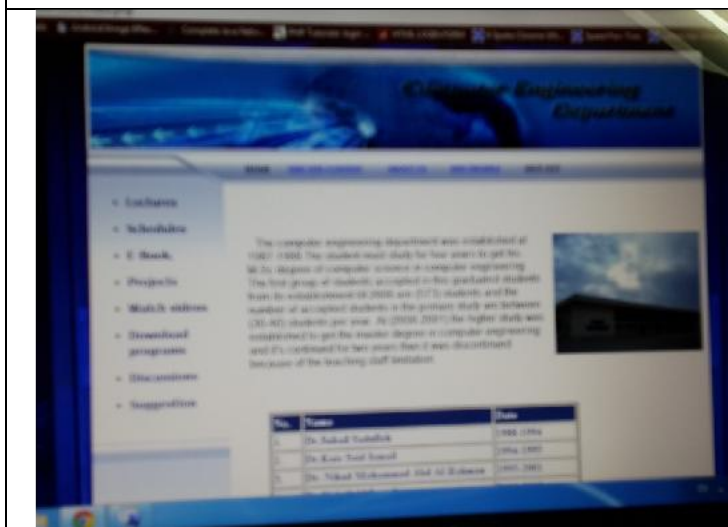


The project construct local network dedicated for the department and has several specifications which can be used in classroom management and organization in line with the requirements of the grade interactive so as to ensure the functioning of the educational process with the least amount of time and wasted effort and deliver the information to the student with the latest methods of learning and computer-aided means technique interactive and check the purpose of teaching and learning and the use of wired networks or wireless and effective manner.

Interactive Grade System

: المهندس  
حسين  
عبدالصاحب

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This project designs a website of the Department of Computer Engineering, in which students can get a scientific books, lectures, seminars and watch videos and communicate with teachers and learn about the latest news section and advertisements through any computer or any device without the need for an intelligent Internet.

Internal Information  
Network of the  
Department of Computer  
Engineering

رافت صالح

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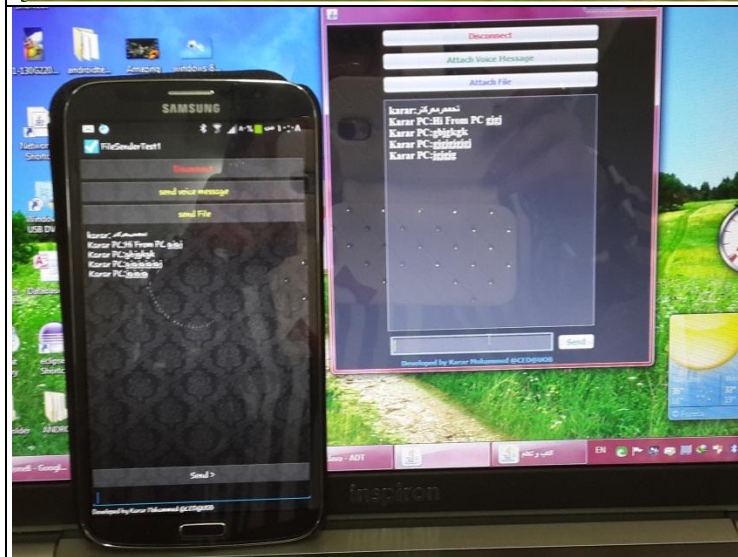


This project designs a simple game with many pictures of animals and fruits that the small kids can play and also learn their names in both Arabic and English languages.

Memory Game (play and learn)

كرار محمد

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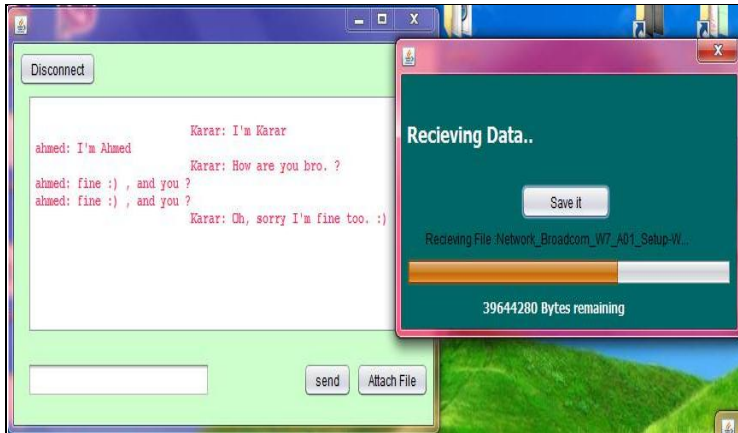


This project is an application for PC's and Mobile Phones (Android) with which we can send text messages and any type of any file with any size without using Internet connection. Just we use any network to connect the two devices and start chatting and transfer voice message files.

Free Wi-Fi Messenger

كرار محمد

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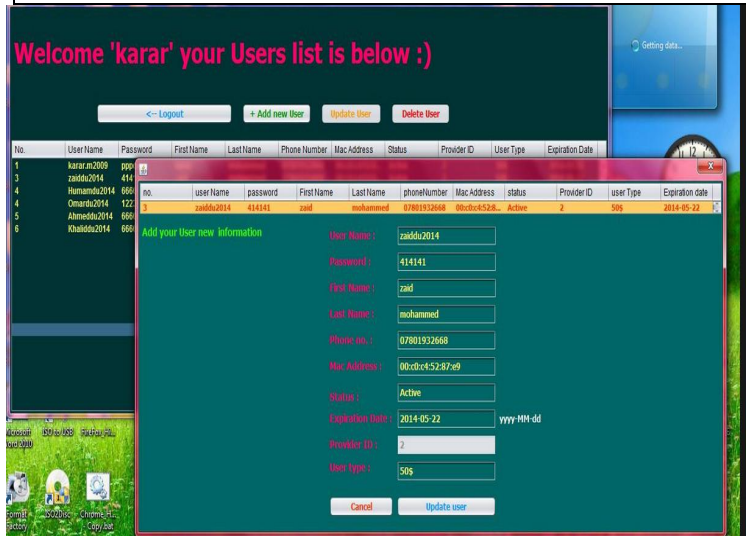


This project is a PC application that can transfer multiple files with any size between two PC's through network without Internet connection.

File Sender

كرار محمد

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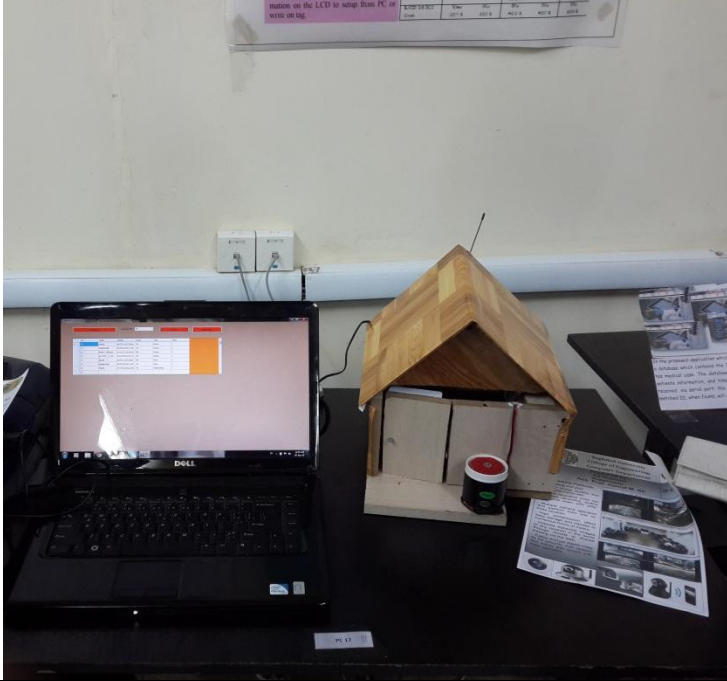


This project is a simple Database application to manage Internet service providers lists and their users lists.

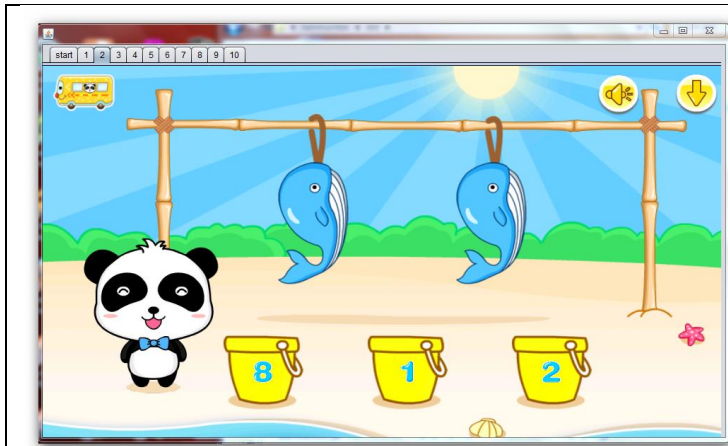
Internet Service Providers and users Management

كرار محمد

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	<p>This project uses an Android smart phone that observes and recognizes the behavior of user navigation goals and estimates future paths without direct input from the user. The idea is to develop a mechanism for a reliable detection of steps and heading directions, and accurate estimation and personalization of step length.</p>	<p>Indoor Positioning System Using Smartphone Sensors</p>	<p>الاء حمزة</p>	<p>22</p>
	<p>This project is to draw by pen on touch screen via reading a point (x,y) and display it on screen by programmer processing and can draw by many color.</p>	<p>Touch Control Panel</p>	<p>رضا سكينة شاكر</p>	<p>23</p>





This project that teaches children the figures, the spectrum width of random numbers and the child to choose the correct number and teaches pronunciation of numbers, and also contains music.

Learn Children the Numbers

رضا سكينة  
شاكر

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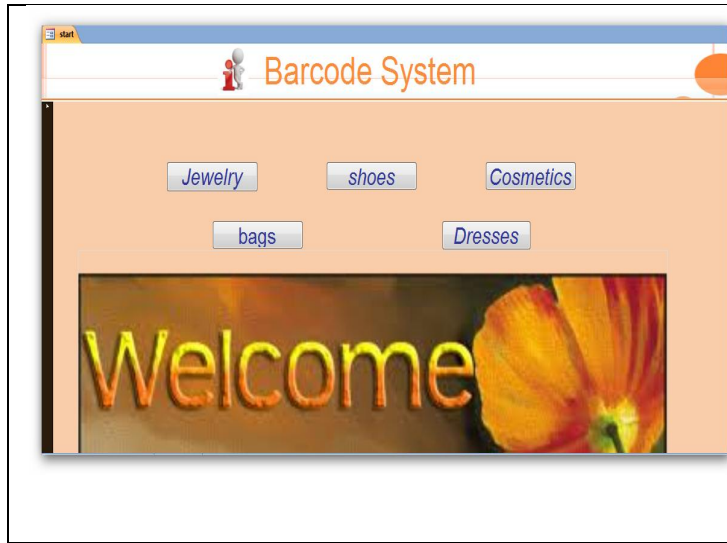


This project teaches the children the letters. Pressing on a character will display it and word and shape of word. Pressing on shape word causes computer to speak the word. The project has music and some test.

Learn Children Letter of English

رضا سكينة  
شاكر

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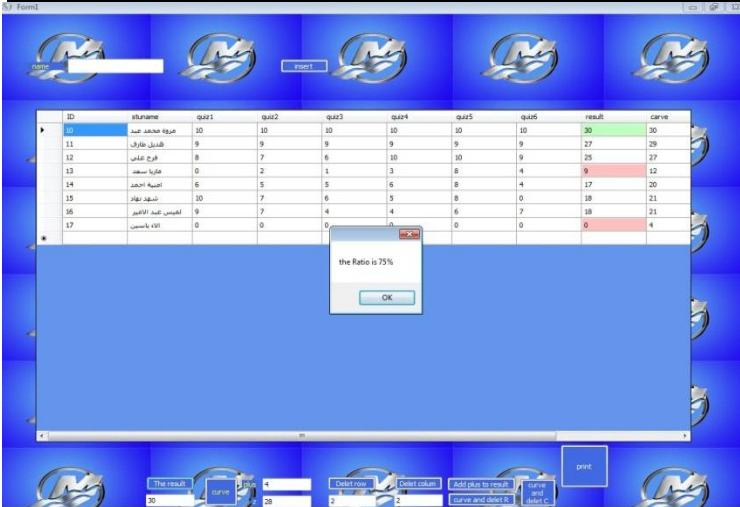


This project illustrates the way to deal with barcode and view information about the goods bearing the barcode and methods of information storage and altered by a Director.

A Barcode System

رضا  
سكينة  
شاكر

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This project is a program that calculates the scores of students in a simple manner.

Teacher Helper

محمد  
مروة  
عبد

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