**AACS3134 Information Systems Development**

**Bus Express Ticketing System**

**ASSIGNMENT**

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| **Requirement** | This is a group project. Students from the same tutorial group are required to work in groups of 2s. |
| **Learning Outcomes Being Assessed** | 1. Produce an information system that incorporates good user interface and report generation in business environment in a team. 2. Analyse the system requirements given, to prepare proper software solutions by using relevant system planning, analysis, design and implementation techniques and tools. 3. Present software solutions and ideas through proper documentations and oral presentations. |
| **Submission Deadline** | **Presentation: Week 6 and Week 7**  **Portfolio: Week 7 – Friday, 1 April 2016 before 4.00pm**  **Late submission will be capped to 50% (unless a concrete reason is provided).** |
| **Detail Question** | This assignment requires students to work in teams of 2 members to develop a Bus Express Ticketing System for local bus express operator in Malaysia.  The Bus Express Ticketing System should include the following capabilities:   * Maintain security features, which include login, authorisation, change password and password recovery. * Maintain staff details, such as manager, receptionist, clerk, etc. * Manage bus-seat information, such as type of bus, scheduling, route, number of seat available, price etc. * Handle ticket purchase transaction before payment.   (This includes showing the transport schedules, type of bus, seat availability, price, etc. Then, let user make selections.)   * Handle payment processing, which include the receipt and ticket generation, payment by cash or payment card, etc. * Reporting module to generate useful reports to aid management decision making.   (Note: For the reports, each system should produce at least 1 transaction report, 1 exception report and 2 summary reports)  (Optional features)   * Allow customer to change their purchased tickets at least 2 days before departure, with or without additional charges. * Driver scheduling module. * Support more than 2 ticket selling terminals with client-server design(with shared database in a server).   All implementations should include appropriate **data validation** and **basic security** features such as basic authorization and authentication. The system should not crash from missing or unexpected input. Exactly how you design and program the application is up to you. Students may include additional functionalities/ modules and features to make your system advanced. |
| **Deliverables** | Each team is required to present the stipulated deliverables to the tutor for assessment every week. Teams must also maintain a file containing all their hardcopy draft documents and deliverables.  **Each team member should participate in preparing every deliverable required in the assignment.**  Please refer to the Attachment 1 for information on the deliverables to be presented to the tutor for assessment each week.  At the end of Week 7, your team is required to submit   1. A *hardcopy* portfolio which includes the following items: 2. A cover page (use the template provided). 3. A contents page. 4. All the final version of the weekly deliverables 5. A CD/DVD containing the following items should be attached to your hardcopy portfolio:  * The source code for your entire project * Executable files with the database – that will enable your system to be deployed * Include a readme.txt file describing how your project may be installed and used.   Note: Your CD/DVD should be labelled with the team members’ names and tutorial group  **Important Reminder**  This is ***your*** assignment. You are not allowed to refer to your peers’ work (except for those in your team. Submitting the assignment means you have agreed that your work is original and comply with the rules and regulations (refer to Academic Impropriety). Students found to be dishonest are liable to disciplinary action. |
| **Requirements for hardcopy report and programming style** | Your assignment submission should adhere to the following:   |  |  | | --- | --- | | Paper size | A4 (Use only one side of the paper) | | Line spacing | 1 line | | Font size | 12pt for the main text | | Programming Style | * Follow the standard naming convention * Proper indentation and spacing. Indent each statement two spaces more than the structure within which it is nested. * Include appropriate comments in your program | |
| **SLT Required** | At least 118 hours per team member. |
| **Academic Impropriety** | Your attention is drawn to the Faculty of Applied Sciences and Computing Handbook and the College guidelines on avoiding plagiarism. This covers cheating, attempts to cheat, plagiarism, collusion and any other attempts to gain an unfair advantage in assessment. Examples of unacceptable practices include:  • Giving another student your work.  • Copying someone else’s work.  • Changing or correcting another student’s work.  **The work that you submit must conform to those regulations.** |
| **Assessment** | This assignment contributes ***100 marks*** to the coursework. The allocation of marks is shown below. The detailed assessment criteria as below:-   |  |  | | --- | --- | | **Area** | **Marks Allotted** | | Organizational background and objectives | 5 | | System Analysis | 10 | | Data Design | 10 | | UI design | 10 | | Report design | 10 | | Programming | 20 | | Additional features / functionalities | 7 | | Project management | 10 | | Team work | 5 | | Presentation skills | 8 | | Portfolio | 5 | | **Total** | 100 | |

Tunku Abdul Rahman University College

**Assignment**

**AACS3134**

Information Systems Development

Programme :

Tutorial Group :

Date Submitted to Tutor :

**Declaration**

We confirm that we have read and shall comply with all the terms and conditions of TAR University College’s plagiarism policy.

We declare that this assignment is free from all forms of plagiarism and for all intents and purposes is my own properly derived work.

**Team Members:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Student Name** | **Student ID** | **Module(s)** | **Signature** |
| **1.** |  |  |  |  |
| **2.** |  |  |  |  |