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| **جامعـة العلـوم التطبيقية الخاصة**  **كلية تكنولوجيا المعلومات**  **المشروع النهائي 2018 - 2**  ISO9001 Logo  **Student Name:**  **Student ID:** | ASU-Logo-small  **Submission Date**  **26/May/2019** | **APPLIED SCIENCE UNIVERSITY (ASU)**  **FACULTY OF INFORMATION TECHNOLOGY (FIT)**  **Final Project 2018-2**  Subject: *Visual Programming 1301304*  Instructor: *Dr. Mahmood Al-Bashayreh* |

***Project Notes and Rules:***

1. This is 3 ***pages and 6 Project assessment criteria***.
2. Show all work for full credit.
3. Part of the grade will be assigned to legibility and organization.
4. If you think that a parameter in a Question is missing, assume it and work accordingly.

**Final Project: [20 points]**

Design and implement a Xamarin.Forms App as a final project for the visual programming course. An example of such application includes, but not limited to, Library, Point of Sale POS, Payroll, Inventory, Fixed Assets, E-Commerce. The developed application should satisfy the following criteria:

**Criterion 1: [6 points]**

1. The project should have at least three models. Two of them should be the base for creating a setup or look-up pages, while the third model should be the base for creating transactions related to the other two models. For example, the Student and Course models could be considered as the base for creating a setup or look-up pages, while the Registration model could be the base for creating transactions such as ***StudentA*** register a ***CourseB*** at ***SemesterC***. Please make sure to use different types of property, so that you can utilize all kinds of views that you have studied in this course.

**Criterion 2: [4 points]**

1. The project should be configured to connect to SQLite database. Additionally, It should be developed to create the required database with all the necessary tables.

**Criterion 3: [4 points]**

1. Based on the created models, design and develop all required pages. For each model, there should be at least 4 pages, which are: ListPage, CreatePage, EditPAge, and DeletePage. Make sure to use a master detail page as the main page.

**Criterion 4: [2 points]**

1. Customize the Master page, so that it should have a custom list view with Image cell with three menu items to navigate to the ListPage for each created model.

**Criterion 5: [4 points]**

1. Customize the generated pages to demonstrate your ability to perform the followings:
   1. Add filter functionality. Example, show only IT students.
   2. Add search functionality. Example, find a student by university id.
   3. Add an ascending and descending sort functionality. Example, sort by date or name.
   4. Add some calculated fields in reports. Example, calculate student average per semester.
   5. Add a custom reporting page to view a report of transactions made at your project.
   6. Customize the Navigation Bar
   7. Use ToolbarItems

**Criterion 6:**

1. Overall project uderstaanding and team work.

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| **CATEGORY** | **3** | **2** | **1** | **0** | **Average** |
| **Contributions** | Routinely provides useful ideas when participating in the group and in classroom discussion. A leader who contributes a lot of effort. | Usually provides useful ideas when participating in the group and in classroom discussion. A strong group member who tries hard! | Sometimes provides useful ideas when participating in the group and in classroom discussion. A satisfactory group member who does what is required. | Rarely provides useful ideas when participating in the group and in classroom discussion. May refuse to participate. |  |
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| **Problem-solving** | Actively looks for and suggests solutions to problems. | Refines solutions suggested by others. | Does not suggest or refine solutions, but is willing to try out solutions suggested by others. | Does not try to solve problems or help others solve problems. Lets others do the work. |  |
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| **Attitude** | Is never publicly critical of the project or the work of others. Always has a positive attitude about the task(s). | Is rarely publicly critical of the project or the work of others. Often has a positive attitude about the task(s). | Is occasionally publicly critical of the project or the work of other members of the group. Usually has a positive attitude about the task(s). | Is often publicly critical of the project or the work of other members of the group. Is often negative about the task(s). |  |
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| **Focus on the task** | Consistently stays focused on the task and what needs to be done. Very selfdirected. | Focuses on the task and what needs to be done most of the time. Other group members can count on this person. | Focuses on the task and what needs to be done some of the time. Other group members must sometimes nag, prod, and remind to keep this person ontask. | Rarely focuses on the task and what needs to be done. Lets others do the work. |  |
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| **Working with Others** | Almost always listens to, shares with, and supports the efforts of others. Tries to keep people working well together. | Usually listens to, shares, with, and supports the efforts of others. Does not cause "waves" in the group | Often listens to, shares with, and supports the efforts of others, but sometimes is not a good team member. | Rarely listens to, shares with, and supports the efforts of others. Often is not a good team player. |  |
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