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| Icon  Description automatically generated | **CMPS 312 Project Phase 2 – UI Design Implementation (10% of the course grade)** | |
| **Group Id:** | | G? |
| **Group Members:** | | Student1 full name (StudentId)  Student2 full name (StudentId)  Student3 full name (StudentId)  **Emails:** student1@student.qu.edu.qa; student2@student.qu.edu.qa; student3@student.qu.edu.qa; |

**Grading Rubric - In the Functionality column please specify either: *Working (completed x%)*, *Not Working (completed x%)* or *Not done*.**

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| Criteria | | % | Functionality\* | | Quality of the implementation | Your Grade |
| **1) Signup and Signin using Firebase Authentication** | | 10% |  | |  |  |
| **2) Sync Reference Data from Firestore to local YalaPay SQLite database** | | 15% |  |  | |  |
|  | **3) Cloud Firestore Database Design and Implementation**  Repositories to interact with Firestore for *Invoices*, *Payments* and *Cheque Deposits*  - Read/write **Reference** **Data (such as such as Customers, Return Reasons, Banks) from local YalaPay SQLite database** | **65%** |  |  | |  |
| U2 - YalaPay Dashboard | | 10 |  |  | |  |
| U3 - List/Search/Add/ Update and Delete a Customer:  1. List Customers (5 pts)  2. Search Customers (4 pts)  3. Add Customer (8 pts)  4. Update Customer (5 pts)  5. Delete Customer (3 pts) | | 25 |  |  | |  |
| U4 - List/Search/Add/ Update and Delete an Invoice  1. List Invoices (5 pts)  2. Search Invoices (4 pts)  3. Add Invoice (8 pts)  4. Update Invoice (5 pts)  5. Delete Invoice (3 pts) | | 25 |  |  | |  |
| U5 - List/Search/Add/ Update and Delete payments for an invoice  1. List Payments (5 pts)  2. Search Payments (4 pts)  3. Add Payment (8 pts)  4. Update Payment (5 pts)  5. Delete Payment (3 pts) | | 25 |  |  | |  |
| U6 - Manage Cashing Cheques  1. Add Cheques Deposit (10 pts)  2. List Cheque Deposits (5 pts)  3. Update Cheques Deposit (10 pts) | | 25 |  |  | |  |
| U7 - Invoices Report | | 10 |  |  | |  |
| U8 - Cheques Report | | 10 |  |  | |  |
| **4) Design and Testing Documentation**  **\* Design documentation:**  - 4 key lessons learned from Phase 1.  - Firestore database schema diagram and SQLite database schema diagram.  **\* Testing documentation:** with evidence of working implementation using snapshots illustrating the results of your solution testing (you must use the provided template). | | **10%** |  | |  |  |
| 6) **Discussion of the project contribution** of each team member [-10pts if not done] | |  |  | |  |  |
| **Total** | | 100 |  | |  |  |
| Copying and/or plagiarism or not being able to explain or answer questions about the implementation | | -  100 |  | |  |  |

**\* Possible grading for functionality** - ***Working*** (get 70% of the assigned grade), ***Not*** ***working*** (lose 40% of assigned grade and ***Not done*** (get 0). The remaining grade is assigned to the quality of the implementation.

In case your implementation is not working then 40% of the grade will be lost and the remaining 60% will be determined based on of the code quality and how close your solution to the working implementation.

Solution quality also includes meaningful naming of identifiers (according to Android naming conventions), no redundant code, simple and efficient design, clean implementation without unnecessary files/code, use of comments where necessary, proper code formatting and indentation.

**Marks will be reduced** forcode duplication, poor/inefficient coding practices, poor naming of identifiers, unclean/untidy submission, and unnecessary complex/poor user interface design.

# Application Design

* 1. **4 key lessons learned from Project Phase 1**

# Firestore database schema diagram

# SQLite database schema diagram

# Testing with evidence of working implementation

# U1.1 – Login

# U1.2 - Signup

# U2 - YalaPay Dashboard

# U3 - List/Search/Add/ Update and Delete a Customer

# List Customers

# Search Customers

# Add Customer

# Update Customer

# Delete Customer

# U4 - List/Search/Add/ Update and Delete an Invoice

# List Invoices

# Search Invoices

# Add Invoice

# Update Invoice

# Delete Invoice

# U5 - List/Search/Add/ Update and Delete payments for an invoice

# List Payments

# Search Payments

# Add Payment

# Update Payment

# Delete Payment

# U6 - Manage Cashing Cheques

# Add Cheques Deposit

# List Cheque Deposits

# Update Cheques Deposit

# U7 - Invoices Report

# U8 - Cheques Report

# Sync Reference Data from Firestore to local YalaPay SQLite database

# Summary of team member contributions