**School Management System (SMS)**

**App**

* **Module 3 – Payment Management**



**CMPS 350 Project Phase 1 – Web API and Data Management using MongoDB**

|  |  |
| --- | --- |
| **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*.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Criteria | % | Functionality\* | | Quality of the implementation | Grade |
| 1. Addressing 4 most important phase 1 feedback given to you or given for the base solution you have used for your phase 2. | | 6 |  | |  |  |
| 2. Design and implementation of the database schema to manage the data in a MongoDB database (including a schema diagram in the project report). | | 10 |  | |  |  |
| 3. Populate the database with the data from the json files. | | 6 |  | |  |  |
| 4.1. Repository Implementation to read/write data from/to MongoDB (30%)  4.2. Web API implementation (25%)  4.3. Working Web UI using the Web API (17%) | | **72%** |  | |  |  |
|  | Login | 5 |  |  | |  |
|  | Setup and maintain the free structure | 11 |  |  | |  |
|  | Get pending payments (for Parent) | 9 |  |  | |  |
|  | Make payment | 9 |  |  | |  |
|  | Get payments history | 8 |  |  | |  |
|  | Pending payments report (for Principal) | 8 |  |  | |  |
|  | Received payments report | 8 |  |  | |  |
|  | Generate due payments | 9 |  |  | |  |
|  | Request bus service | 8 |  |  | |  |
|  | Approve / reject bus service request | 9 |  |  | |  |
|  | Get status of bus service request | 8 |  |  | |  |
|  | Overall code quality | 8 |  |  | |  |
| **6) Testing documentation** using screen shots illustrating the testing results.  - Discussion of the project contribution of each team member. | | 6 |  |  | |  |
| **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 60% 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** for **code duplication**, poor/inefficient coding practices, poor naming of identifiers, unclean/untidy submission, and unnecessary complex/poor user interface design.

# Addressing the project phase 1 feedback

Briefly describe how you addressed **4 most important** phase 1 feedback given to you or given for the base solution you have used for your phase 2.

|  |  |  |
| --- | --- | --- |
| **#** | **Feedback Given** | **Brief description of how you addressed it** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

# Database schema diagram

# App Testing

# Login

# Setup and maintain the free structure

# Get pending payments (for Parent)

# Make payment

# Get payments history

# Pending payments report (for Principal)

# Received payments report

# Generate due payments

# Request bus service

# Approve / reject bus service request

# Get status of bus service request

# Summary of team member contributions